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I. Articles in international journals with peer review mentioned in the Web of Science (A1)	2
II. Articles in international journals with peer review not in the Web of Science (A2)	35
III. Articles in scientific journals without peer review (A4)	36
IV. Chapters in books (B2).....	37
V. Editor of books (B3).....	39
VI. Proceedings of congresses mentioned in the Web of Science (P1)	39
VII. Proceedings of congresses not mentioned in the Web of Science (C1).....	41
VIII. Conference abstracts (C3)	44
IX. Other publications (V).....	45
X. Patents (C2)	46

I. Articles in international journals with peer review mentioned in the Web of Science (A1)

1. Mertens S., Verbraeken L., Sprenger H., De Meyer S., Demuyne K., Cannoot B., Merchie J., De Block J., Vogel J.T., Bruce W., Nelissen H., Maere S., **Inzé D.*** and Nathalie Wuyts N. (2023). Monitoring of drought stress and transpiration rate using proximal thermal and hyperspectral imaging in an indoor automated plant phenotyping platform. *Plant Methods*, accepted for publication on 10/11/2023
2. Dima O.*, Custers R., De Veirman L. and **Inzé D.*** (2023). EU legal proposal for genome-edited crops hints at a science-based approach. *Trends Plant Sci.* 28, 1350-1353.
3. Schneider M., Van Bel M., **Inzé D.**** and Baekelandt A.# (2023). Leaf growth – complex regulation of a seemingly simple process. *Plant J.*, accepted for publication on 18/09/2023.
4. De Meyer S.°, Cruz D.F.°, De Swaef T., Lootens P., De Block J., Bird K., Sprenger H., Van de Voorde M., Hawinkel S., Van Hautegeem T., **Inzé D.**, Nelissen H., Roldán-Ruiz I. and Maere S.* (2023). Predicting yield of individual field-grown rapeseed plants from rosette-stage leaf gene expression. *PLoS Comput. Biol.* 19, e1011161.
5. Impens L., Lorenzo C.D., Vandeputte W., Wytynck P., Debray K., Haeghebaert J., Herwegh D., Jacobs T.B., Ruttink T., Nelissen H., **Inzé D.** and Pauwels L.* (2023). Combining multiplex gene editing and doubled haploid technology in maize. *New Phytol.* 239, 1521-1532.
6. Dubois M., Achon I., Brench R.A., Polyn S., Tenorio Berrío R., Vercauteren I., Gray J.E., **Inzé D.** and De Veylder L.* (2023). SIAMESE-RELATED1 imposes differentiation of stomatal lineage ground cells into pavement cells. *Nat. Plants* 9, 1143-1153.
7. El Houari I., Klíma P., Baekelandt A., Staswick P.E., Uzunova V., Del Genio C.I., Steenackers W., Dobrev P.I., Filepová R., Novák O., Napier R., Petrášek J., **Inzé D.**, **Boerjan W.** and Vanholme B.* (2023). Non-specific effects of the CINNAMATE-4-HYDROXYLASE inhibitor piperonylic acid. *Plant J.* 115, 470-479.
8. Baekelandt A., Saltenis V.L.R., Nacry P., Malyska A., Cornelissen M., Nanda A.K., Nair A., Rogowsky P., Pauwels L., Muller B., Collén J., Blomme J., Pribil M., Scharff L.B., Davies J., Wilhelm R., Rolland N., Harbinson J., Boerjan W., Murchie E.H., Burgess A.J., Cohan J.-P., Debaeke P., Thomine S., **Inzé D.**, Klein Lankhorst R. and Parry M.A.J.* (2023). Paving the way towards future-proofing our crops. *Food and Energy Security* 12, e441.
9. Burgess A.J.°, Masclaux-Daubresse C.°, Strittmatter G., Weber A.P.M., Taylor S.H., Harbinson J., Yin X., Long S., Paul M.J., Westhoff P., Loreto F., Ceriotti A., Saltenis V.L.R., Pribil M., Nacry P., Scharff L.B., Jensen P.E., Muller B., Cohan J.-P., Foulkes J., Rogowsky P., Debaeke P., Meyer C., Nelissen H., **Inzé D.**, Klein Lankhorst R., Parry M.A.J., Murchie E.H.** and Baekelandt A.# (2023). Improving crop yield potential: underlying biological processes and future prospects. *Food and Energy Security* 12, e435.
10. Baekelandt A.°, Saltenis V.L.R.°, Pribil M., Nacry P., Harbinson J., Rolland N., Wilhelm R., Davies J., **Inzé D.**, Parry M.A.J.# and Klein Lankhorst R.** (2023). CropBooster-P: towards a roadmap for plant research to future-proof crops in Europe. *Food and Energy Security* 12, e428.
11. Gojon A.°, Nussaume L.°, Luu D.T.°, Murchie E.H.°, Baekelandt A.°, Rodrigues Saltenis V.L., Cohan J.-P., Desnos T., **Inzé D.**, Ferguson J.N., Guiderdoni E., Krapp A., Klein Lankhorst R., Maurel C., Rouached H., Parry M.A.J., Pribil M., Scharff L.B. and Nacry P.* (2023). Approaches and determinants to sustainably improve crop production. *Food and Energy Security* 12, e369.
12. Lorenzo C.D.°, Debray K.°, Herwegh D., Develtere W., Impens L., Schaumont D., Vandeputte W., Aesaert S., Coussens G., De Boe Y., Demuyne K., Van Hautegeem T., Pauwels L., Jacobs T.B., Ruttink T., Nelissen H. and **Inzé D.*** (2023). BREEDIT: a multiplex genome editing strategy to improve complex quantitative traits in maize. *Plant Cell* 35, 218-238.
13. De Saeger J.*, Park J., Thoris K., De Bruyn C., Chung H.S., **Inzé D.** and Depuydt S. (2022). IMPLANT: a new technique for transgene copy number estimation in plants using a single end-point PCR reaction. *Plant Methods* 18, 132.

14. Vlaminc L., De Rouck B., Desmet S., Van Gerrewey Y., Goeminne G., De Smet L., Storme V., Kyndt T., Demeestere K., Gheysen G., **Inzé D.**, Vanholme B.* and Depuydt S.* (2022). Opposing effects of trans- and cis-cinnamic acid during rice coleoptile elongation. *Plant Direct* 6, e465.
15. Curci P.L., Zhang J.°, Mähler N.°, Seyfferth C., Mannapperuma C., Diels T., Van Hautegeem T., Jonsen D., Street N., Hvidsten T.R., Hertzberg M., Nilsson O., **Inzé D.**, Nelissen H. and Vandepoele K.* (2022). Identification of growth regulators using cross-species network analysis in plants. *Plant Physiol.* 190, 2350-2365.
16. **Inzé D.** and Nelissen H.* (2022). The translatability of genetic networks from model to crop species: lessons from the past and perspectives for the future. *New Phytol.* 236, 43-48.
17. Dima O.°, Heyvaert Y.° and **Inzé D.*** (2022). Interactive database of genome editing applications in crops and future policy making in the European Union. *Trends Plant Sci.* 27, 746-748.
18. Gong P., Demuyneck K., De Block J., Aesaert S., Coussens G., Pauwels L., **Inzé D.**, and Nelissen H.* (2022). Modulation of the *DA1* pathway in maize shows that translatability of information from Arabidopsis to crops is complex. *Plant Sci.* 312, 111295.
19. Aesaert S.°, Impens L.°, Coussens G.°, Van Lerberge E., Vanderhaeghen R., Desmet L., Vanhevel Y., Bossuyt S., Wambua A.N., Van Lijsebettens M., **Inzé D.**, De Keyser E., Jacobs T.B., Karimi M. and Pauwels L.* (2022). Optimized transformation and gene editing of the B104 public maize inbred by improved tissue culture and use of morphogenic regulators. *Front. Plant Sci.* 13, 883847.
20. De Pessemier J.°, Moturu T.R.°, Nacry P., Ebert R., De Gernier H., Tillard P., Swarup K., Wells D.M., Haseloff J., Murray S.C., Bennett M.J., **Inzé D.**, Vincent C.I. and Herman C.* (2022). Root system size and root hair length are key phenes for nitrate acquisition and biomass production across natural variation in Arabidopsis. *J. Exp. Bot.* 73, 3569-3583.
21. Blomme J., Develtere W., Köse A., Arraiza Ribera J., Brugmans C., Jaraba-Wallace J., Decaestecker W., Rombaut D., Baekelandt A., Fernández Fernández A.D., Van Breusegem F., **Inzé D.** and Jacobs T.B.* (2022). The heat is on: a simple method to increase genome editing efficiency in plants. *BMC Plant Biol.* 22, 142.
22. Urano K.*, Maruyama K., Koyama T., Gonzalez N., **Inzé D.**, Yamaguchi-Shinozaki K. and Shinozaki K.* (2022). CIN-like TCP13 is essential for plant growth regulation under dehydration stress. *Plant Mol. Biol.* 108, 257-275.
23. Tenorio Berrío R., Nelissen H., **Inzé D.**** and Dubois M.# (2022). Increasing yield on dry fields: molecular pathways with growing potential. *Plant J.* 109, 323-341.
24. Scharff L.B.**#, Saltenis V.L.R.**#, Jensen P.E., Baekelandt A., Burgess A.J., Burow M., Ceriotti A., Cohan J.-P., Geu-Flores F., Halkier B.A., Haslam R.P., **Inzé D.**, Klein Lankhorst R., Murchie E.H, Napier J.A., Nacry P., Parry M.A.J., Santino A., Scarano A., Sparvoli F., Wilhelm R. and Pribil M.**# (2022). Prospects to improve the nutritional quality of crops. *Food and Energy Security* 11, e327.
25. Gong P., Bontinck M., Demuyneck K., De Block J., Gevaert K., Eeckhout D., Persiau G., Aesaert S., Coussens G., Van Lijsebettens M., Pauwels L., De Jaeger G., **Inzé D.** and Nelissen H.* (2022). SAMBA controls cell division rate during maize development. *Plant Physiol.* 188, 411-424.
26. Swinnen G.°, Mauxion J.-P.°, Baekelandt A., De Clercq R., Van Doorselaere J., **Inzé D.**, Gonzalez N., Goossens A.# and Pauwels L.**# (2022). SIKIX8 and SIKIX9 are negative regulators of leaf and fruit growth in tomato. *Plant Physiol.* 188, 382-396.
27. Tenorio Berrío R., Verstaen K., Vandamme N., Pevernagie J., Aachon I., Van Duyse J., Van Isterdael G., Saeys Y., De Veylder L., **Inzé D.**#** and Dubois M.# (2022). Single-cell transcriptomics sheds light on the identity and metabolism of developing leaf cells. *Plant Physiol.* 188, 898-918.
28. Ramireddy E.*, Nelissen H., Leuendorf J.E., Van Lijsebettens M., **Inzé D.** and Schmölling T.* (2021). Root engineering in maize by increasing cytokinin degradation causes enhanced root growth and leaf mineral enrichment. *Plant Mol. Biol.* 106, 555-567.
29. Miculan M., Nelissen H., Ben Hassen M., Marroni F., **Inzé D.**, Pè M.E. and Dell'Acqua M.* (2021). A forward genetics approach integrating genome-wide association study and expression

- quantitative trait locus mapping to dissect leaf development in maize (*Zea mays*). *Plant J.* 107, 1056-1071.
30. Hao J.^o, Wang D.^o, Wu Y.^o, Huang K.^o, Duan P., Li N., Xu R., Zeng D., Dong G., Zhang B., Zhang L., **Inzé D.**, Qian Q.* and Li Y.* (2021). The GW2-WG1-OsbZIP47 pathway controls grain size and weight in rice. *Mol. Plant* 14, 1266-1280.
 31. Chen Y., Dubois M., Vermeersch M., **Inzé D.**** and Vanhaeren H.# (2021). Distinct cellular strategies determine sensitivity to mild drought of Arabidopsis natural accessions. *Plant Physiol.* 186, 1171-1185. [Corrigendum *Plant Physiol.* 187, 2877]
 32. Verbraeken L., Wuyts N., Merten S., Cannoot B., Maleux K., Demuynck K., De Block J., Merchie J., Dhondt S., Bonaventure G., Crafts-Brandner S., Vogel J., Bruce W., **Inzé D.**, Maere S.# and Nelissen H.** (2021). Drought affects the rate and duration of organ growth but not inter-organ coordination. *Plant Physiol.* 186, 1336-1353.
 33. Chen Y., **Inzé D.**** and Vanhaeren H.# (2021). Post-translational modifications regulate the activity of the growth-restricting protease DA1. *J. Exp. Bot.* 72, 3352-3366.
 34. Mertens S., Verbraeken L., Sprenger H., Demuynck K., Maleux K., Cannoot B., Deblock J., Maere S., Nelissen H., Bonaventure G., Crafts-Brandner S., Vogel J., Bruce W., **Inzé D.*** and Wuyts N. (2021). Proximal hyperspectral imaging detects diurnal and drought-induced changes in maize physiology. *Front. Plant Sci.* 12, 640914.
 35. Coussement J.R.* , Villers S.L.Y., Nelissen H., **Inzé D.** and Steppe K. (2021). Turgor-time controls grass leaf elongation rate and duration under drought stress. *Plant Cell Environ.* 44, 1361-1378.
 36. Schneider M., Gonzalez N., Pauwels L., **Inzé D.**** and Baekelandt A.# (2021). The PEAPOD pathway and its potential to improve crop yield. *Trends in Plant Sci.* 26, 220-236.
 37. De Saeger J., Park J., Chung H.S., Hernalsteens J.-P., Van Lijsebettens M., **Inzé D.**, Van Montagu M. and Depuydt S.* (2021). *Agrobacterium* strains and strain improvement: present and outlook. *Biotechnol. Adv.* 53, 107677.
 38. Prasetyaningrum P., Mariotti L., Valeri M.C., Novi G., Dhondt S., **Inzé D.**, Perata P.** and van Veen H.** (2021). Nocturnal gibberellin biosynthesis is carbon dependent and adjusts leaf expansion rates to variable conditions. *Plant Physiol.* 185, 228-239.
 39. Cornelissen M., Małyska A.* , Kaur Nanda A., Klein Lankhorst R., Parry M.A.J., Rodrigues Saltenis V., Pribil M., Nacry P., **Inzé D.** and Baekelandt A. (2021). Biotechnology for tomorrow's world: scenarios to guide directions for future innovation. *Trends Biotechnol.* 39, 438-444.
 40. Cruz D.F.^o, De Meyer S.^o, Ampe J., Sprenger H., Herman D., Van Hautegeem T., De Block J., **Inzé D.**, Nelissen H. and Maere S.* (2020). Using single-plant -omics in the field to link maize genes to functions and phenotypes. *Mol. Syst. Biol.* 16, e9667.
 41. Vlamincx L., Sang-Aram C., Botterman D., Uy C.J.C., Harper M.K., **Inzé D.**, Gheysen G. and Depuydt S.* (2020). Development of a novel and rapid phenotype-based screening method to assess rice seedling growth. *Plant Methods* 16, 139.
 42. Van den Broeck L., Gordon M., **Inzé D.**, Williams C. and Sozzani R.* (2020). Gene regulatory network inference: connecting plant biology and mathematical modeling. *Front Genet.* 11, 457.
 43. Li T., Gonzalez N., **Inzé D.*** and Dubois M. (2020). Emerging connections between small RNAs and phytohormones. *Trends in Plant Sci.* 25, 912-929.
 44. Beirinckx S., Viaene T., Haegeman A., Debode J., Amery F., Vandenaabeele S., Nelissen H., **Inzé D.**, Tito R., Raes J., De Tender C.* and Goormachtig S.* (2020). Tapping into the maize root microbiome to identify bacteria that promote growth under chilling conditions. *Microbiome* 8, 54.
 45. Vanhaeren H.* , Chen Y., Vermeersch M., De Milde L., De Vleeschhauer V., Natran A., Persiau G., Eeckhout D., De Jaeger G., Gevaert K.* and **Inzé D.*** (2020). UBP12 and UBP13 negatively regulate the activity of the ubiquitin-dependent peptidases DA1, DAR1 and DAR2. *eLife* 9, e52276.

46. Ding L.[°], Milhiet T.[°], Couvreur V., Nelissen H., Meziane A., Parent B., Aesaert S., Van **Lijsebettens M.**, **Inzé D.**, Tardieu F., Draye X. and Chaumonta F.* (2020). Modification of the expression of the aquaporin ZmPIP2;5 affects water relations and plant growth. *Plant Physiol.*, 182, 2154-2165.
47. Dubois M. and **Inzé D.*** (2020). Plant growth under suboptimal water conditions: early responses and methods to study them. *J. Exp. Bot.* 71, 1706-1722.
48. Vercruyssen J.[°], Baekelandt A.[°], Gonzalez N.* and **Inzé D.*** (2020). Molecular networks regulating cell division during Arabidopsis leaf growth. *J. Exp. Bot.* 71, 2365-2378.
49. Nelissen H., Sprenger H., Demuyneck K., De Block J., Van Hautegeem T., De Vliegheer A. and **Inzé D.*** (2020). From laboratory to field: yield stability and shade avoidance genes are massively differentially expressed in the field. *Plant Biotechnol. J.* 18, 1112-1114.
50. De Vos D.*, Nelissen H., AbdElgawad H., Prinsen E., Broeckhove J., **Inzé D.** and Beemster G.T.S.* (2020). How grass keeps growing: an integrated analysis of hormonal crosstalk in the maize leaf growth zone. *New Phytol.* 225, 2513-2525.
51. Vercruyssen J., Van Bel M., Osuna-Cruz C.M., Kulkarni S.R., Storme V., Nelissen H., Gonzalez N.#, **Inzé D.**** and Vandepoele K.# (2020). Comparative transcriptomics enables the identification of functional orthologous genes involved in early leaf growth. *Plant Biotechnol. J.* 18, 553-567.
52. Steenackers W.[°], El Houari I.[°], Baekelandt A., Witvrouw K., Dhondt S., Leroux O., Gonzalez N., Corneillie S., Cesarino I., **Inzé D.**, Boerjan W.# and Vanholme B.** (2019). *cis*-Cinnamic acid is a natural plant growth-promoting compound. *J. Exp. Bot.* 70, 6293-6304.
53. Weckx S.*, **Inzé D.** and Maene L. (2019). Tissue culture of oil palm: finding the balance between mass propagation and somaclonal variation. *Front. Plant Sci.* 10, 722.
54. Asaari M.S.M.*, Mertens S., Dhondt S., **Inzé D.**, Wuyts N. and Scheunders P. (2019). Analysis of hyperspectral images for detection of drought stress and recovery in maize plants in a high-throughput phenotyping platform. *Comput. Electron. Agric.* 162, 749-758.
55. Rodrigues J., **Inzé D.**, Nelissen H.* and Saibo N.J.M.* (2019). Source-sink regulation in crops under water deficit. *Trends Plant Sci.* 24, 652-663.
56. Marín-de la Rosa N., Lin C.-W., Kang Y.J., Dhondt S., Gonzalez N., **Inzé D.**, Falter-Braun P.* (2019). Drought resistance is mediated by divergent strategies in closely related Brassicaceae. *New Phytol.* 223, 783-797.
57. Li T., Natran A., Chen Y., Vercruyssen J., Wang K., Gonzalez N.#, Dubois M.# and **Inzé D.**** (2019). A genetics screen highlights emerging roles for CPL3, RST1 and URT1 in RNA metabolism and silencing. *Nat. Plants* 5, 539-550.
58. Woloszynska M.[°], Le Gall S.[°], Neyt P., Boccardi T.M., Grasser M., Längst G., Aesaert S., Coussens G., Dhondt S., Van De Slijke E., Bruno L., Fung-Uceda J., Mas P., Van Montagu M.*, **Inzé D.**, Himanen K., De Jaeger G., Grasser K.D. and Van Lijsebettens M.* (2019). Histone 2B monoubiquitination complex integrates transcript elongation with RNA processing at circadian clock and flowering regulators. *Proc. Natl. Acad. Sci. USA* 116, 8060-8069.
59. Skalák J., Vercruyssen L., Claeys H., Hradilová J., Černý M., Novák O., Plačková L., Saiz-Fernández I., Skaláková P., Coppens F., Dhondt S., Koukalová Š., Zouhar J., **Inzé D.** and Brzobohaty B.* (2019). Multifaceted activity of cytokinin in leaf development shapes its size and structure in Arabidopsis. *Plant J.* 97, 805-824.
60. Njuguna E., Coussens G., Neyt P., Aesaert S., Storme V., Demuyneck K., Vanhaeren H., Dhondt S., Van Haver Y., Paul L., **Inzé D.**, Nelissen H. and Van Lijsebettens M.* (2019). Functional analysis of *Arabidopsis* and maize transgenic lines overexpressing the ADP-ribose/NADH pyrophosphohydrolase, *AtNUDX7*. *Int. J. Dev. Biol.* 63, 45-55.
61. Van Dingenen J., Vermeersch M., De Milde L., Hulsmans S., De Winne N., Van Leene J., Gonzalez N., Dhondt S., De Jaeger G., Rolland F. and **Inzé D.*** (2019). The role of HEXOKINASE1 in Arabidopsis leaf growth. *Plant Mol. Biol.* 99, 79-93.
62. Beltramino M., Ercoli M.F., Debernardi J.M., Goldy C., Rojas A.M.L., Nota F., Alvarez M.E., Vercruyssen L., **Inzé D.**, Palatnik J.F.* and Rodriguez R.* (2018). Robust increase of leaf size by

- Arabidopsis thaliana* GRF3-like transcription factors under different growth conditions. *Sci. Rep.* 8, 13447.
63. Baekelandt A., Pauwels L., Wang Z., Li N., De Milde L., Natran A., Vermeersch M., Li Y., Goossens A., **Inzé D.**^{**} and Gonzalez N.[#] (2018). Arabidopsis leaf flatness is regulated by PPD2 and NINJA through repression of *CYCLIN D3* genes. *Plant Physiol.* 178, 217-232.
 64. Nikonorova N.[°], Van den Broeck L.[°], Zhu S., van de Cotte B., Dubois M., Gevaert K., **Inzé D.** and De Smet I.^{*} (2018). Early mannitol-triggered changes in the Arabidopsis leaf (phospho)proteome reveal growth regulators. *J. Exp. Bot.* 69, 4591-4607.
 65. Besbrugge N.[°], Van Leene J.[°], Eeckhout D., Cannoot B., Kulkarni S.R., De Winne N., Persiau G., Van De Slijke E., Bontinck M., Aesaert S., Impens F., Gevaert K., Van Damme D., Van Lijsebettens M., **Inzé D.**, Vandepoele K., Nelissen H.[#] and De Jaeger G.^{**} (2018). GS^{yellow}, a multifaceted tag for functional protein analysis in monocot and dicot plants. *Plant Physiol.* 177, 447-464.
 66. Asaari M.S.M.^{*}, Mishra P., Mertens S., Dhondt S., **Inzé D.**, Wuyts N. and Scheunders P. (2018). Close-range hyperspectral image analysis for the early detection of stress responses in individual plants in a high-throughput phenotyping platform. *ISPRS-J. Photogramm. Remote* 138, 121-138.
 67. Dubois M., Van den Broeck L. and **Inzé D.**^{*} (2018). The pivotal role of ethylene in plant growth. *Trends Plant Sci.* 23, 311-323.
 68. Li N.[°], Liu Z.[°], Wang Z., Ru L., Gonzalez N., Baekelandt A., Pauwels L., Goossens A., Xu R., Zu Z., **Inzé D.** and Li Y.^{*} (2018). STERILE APETALA modulates the stability of a repressor protein complex to control organ size in *Arabidopsis thaliana*. *PLoS Genet.* 14, e1007218.
 69. Feys K., Demuyneck K., De Block J., Bisht A., De Vliegheer A., **Inzé D.**^{**} and Nelissen H.[#] (2018). Growth rate rather than growth duration drives growth heterosis in maize B104 hybrids. *Plant Cell Environ.* 41, 374-382.
 70. Nelissen H.[°], Sun X.-H.[°], Rymen B., Jikumaru Y., Kojima M., Takebayashi Y., Abbeloos R., Demuyneck K., Storme V., Vuylsteke M., De Block J., Herman D., Coppens F., Maere S., Kamiya Y., Sakakibara H., Beemster G.T.S. and **Inzé D.**^{*} (2018). The reduction in maize leaf growth under mild drought affects the transition between cell division and cell expansion and cannot be restored by elevated gibberellic acid levels. *Plant Biotechnol. J.* 16, 615-627.
 71. Van den Broeck L.[°], Dubois M.[°], Vermeersch M., Storme V., Matsui M. and **Inzé D.**^{*} (2017). From network to phenotype: the dynamic wiring of an Arabidopsis transcriptional network induced by osmotic stress. *Mol. Syst. Biol.* 13, 961.
 72. Van Dingenen J.[°], Antoniou C.[°], Filippou P., Pollier J., Gonzalez N., Dhondt S., Goossens A., Fotopoulos V.^{*} and **Inzé D.**^{*} (2017). Strobilurins as growth-promoting compounds: How Strobry regulates Arabidopsis leaf growth. *Plant Cell Environ.* 40, 1748-1760.
 73. Blomme J., Van Aken O., Van Leene J., Jégu T., De Rycke R., De Bruyne M., Vercruyse J., Nolf J., Van Daele T., De Milde L., Vermeersch M., des Francs-Small C.C., De Jaeger G., Benhamed M., Millar A.H., **Inzé D.**^{**} and Gonzalez N.[#] (2017). The mitochondrial DNA-associated protein SWIB5 influences mtDNA architecture and homologous recombination. *Plant Cell* 29, 1137-1156.
 74. Baute J., Polyn S., De Block J., Blomme J., Van Lijsebettens M. and **Inzé D.**^{*} (2017). F-box protein FBX92 affects leaf size in *Arabidopsis thaliana*. *Plant Cell Physiol.* 58, 962-975.
 75. Ritter A.[°], Iñigo S.[°], Fernández-Calvo P.[°], Heyndrickx K.S., Dhondt S., Shi H., De Milde L., Vanden Bossche R., De Clercq R., Eeckhout D., Ron M., Somers D.E., **Inzé D.**, Gevaert K., De Jaeger G., Vandepoele K., Pauwels L. and Goossens A.^{*} (2017). The transcriptional repressor complex FRS7-FRS12 regulates flowering time and growth in *Arabidopsis*. *Nat. Commun.* 8, 15235.
 76. Sun X., Cahill J., Van Hautegeem T., Feys K., Whipple C., Novák O., Delbare S., Versteede C., Demuyneck K., De Block J., Storme V., Claeys H., Van Lijsebettens M., Coussens G., Ljung K., De Vliegheer A., Muszynski M., **Inzé D.**^{**} and Nelissen H.[#] (2017). Altered expression of maize *PLASTOCHRON1* enhances biomass and seed yield by extending cell division duration. *Nat. Commun.* 8, 14752.

77. Dong H.^o, Dumenil J.^o, Lu F.-H.^o, Na L.^o, Vanhaeren H., Naumann C., Klecker M., Prior R., Smith C., McKenzie N., Saalbach G., Chen L., Xia T., Gonzalez N., Seguela M., **Inzé D.**, Dissmeyer N., Li Y.* and Bevan M.W.* (2017). Ubiquitylation activates a peptidase that promotes cleavage and destabilization of its activating E3 ligases and diverse growth regulatory proteins to limit cell proliferation in *Arabidopsis*. *Genes Dev.* 31, 197-208.
78. Dubois M.^o, Claeys H.^o, Van den Broeck L. and **Inzé D.*** (2017). Time of day determines Arabidopsis transcriptome and growth dynamics under mild drought. *Plant Cell Environ.* 40, 180-189.
79. Nam Y.J.^o, Herman D.^o, Blomme J., Chae E., Kojima M., Coppens F., Storme V., Van Daele T., Dhondt S., Sakakibara H., Weigel D., **Inzé D.**** and Gonzalez N.# (2017). Natural variation of molecular and morphological gibberellin responses. *Plant Physiol.* 173, 703-714.
80. Boruc J.*, Weimer A.K., Stoppin-Mellet V., Mylle E., Kosetsu K., Cedeño C., Jaquinod M., Njo M., De Milde L., Tompa P., Gonzalez N., **Inzé D.**, Beeckman T., Vantard M. and Van Damme D.* (2017). Phosphorylation of MAP65-1 by Arabidopsis Aurora kinases is required for efficient cell cycle progression. *Plant Physiol.* 173, 582-599.
81. Vanhaeren H., Nam Y.J., De Milde L., Chae E., Storme V., Weigel D., Gonzalez N.# and **Inzé D.**** (2017). Forever young: the role of ubiquitin receptor DA1 and E3 ligase Big Brother in controlling leaf growth and development. *Plant Physiol.* 173, 1269-1282.
82. Van Dingenen J.^o, Blomme J.^o, Gonzalez N.^o and **Inzé D.*** (2016). Plants grow with a little help from their organelle friends. *J. Exp. Bot.* 67, 6267-6281.
83. Clauw P., Coppens F., Korte A., Herman D., Slabbinck B., Dhondt S., Van Daele T., De Milde L., Vermeersch M., Maleux K., Maere S., Gonzalez N.# and **Inzé D.**** (2016). Leaf growth response to mild drought: natural variation in Arabidopsis sheds light on trait architecture. *Plant Cell* 28, 2417-2434.
84. Vu L.^o, Stes E.^o, Van Bel M., Nelissen H., Maddelein D., **Inzé D.**, Coppens F., Martens L., Gevaert K.# and De Smet I.** (2016). Up-to-date workflow for plant (phospho)proteomics identifies differential drought-responsive phosphorylation events in maize leaves. *J. Proteome Res.* 15, 4304-4317.
85. Žádníková P.^o, Wabnik K.^o, Abuzeineh A., Gallemi M., Van Der Straeten D., Smith R.S., **Inzé D.**, Friml J., Prusinkiewicz P. and Benkova E.* (2016). A model of differential growth-guided apical hook formation in plants. *Plant Cell* 28, 2464-2477.
86. Van Leene J., Blomme J., Kulkarni S.R., Cannoot B., De Winne N., Eeckhout D., Persiau G., Van De Slijke E., Vercruyssen L., Vanden Bossche R., Heyndrickx K.S., Vanneste S., Goossens A., Gevaert K., Vandepoele K., Gonzalez N., **Inzé D.** and De Jaeger G.* (2016). Functional characterization of the Arabidopsis transcription factor bZIP29 reveals its role in leaf and root development. *J. Exp. Bot.* 67, 5825-5840.
87. Murphy E., Vu L.D., Van den Broeck L., Lin Z., Ramakrishna P., van de Cotte B., Gaudinier A., Goh T., Slane D., Beeckman T., **Inzé D.**, Brady S.M., Fukaki H. and De Smet I.* (2016). RALFL34 regulates formative cell divisions in Arabidopsis pericycle during lateral root initiation. *J. Exp. Bot.* 67, 4863-4875.
88. Nelissen H.^o, Gonzalez N.^o and **Inzé D.*** (2016). Leaf growth in dicots and monocots: so different yet so alike. *Curr. Opin. Plant Biol.* 33, 72-76.
89. Betti C., Vanhoutte I., Coutuer S., De Rycke R., Mishev K., Vuylsteke M., Aesaert S., Rombaut D., Gallardo R., De Smet F., Xu J., Van Lijsebettens M., Van Breusegem F., **Inzé D.**, Rousseau F.*, Schymkowitz J.* and Russinova E.* (2016). Sequence-specific protein aggregation generates defined protein knockdowns in plants. *Plant Physiol.* 171, 773-787.
90. Wang Z., Li N., Shan J., Gonzalez N., Huang X., Wang Y., **Inzé D.** and Li Y.* (2016). SCF^{SAP} controls organ size by targeting PPD proteins for degradation in *Arabidopsis thaliana*. *Nat. Commun.* 7, 11192.

91. Van Dingenen J., De Milde L., Vermeersch M., Maleux K., De Rycke R., De Bruyne M., Storme V., Gonzalez N., Dhondt S. and **Inzé D.*** (2016). Chloroplasts are central players in sugar-induced leaf growth. *Plant Physiol.* 171, 590-605.
92. Baute J., Herman D., Coppens F., De Block J., Slabbinck B., Dell'Acqua M., Pè M.E., Maere S., Nelissen H. and **Inzé D.*** (2016). Combined large-scale phenotyping and transcriptomics in maize reveals a robust growth regulatory network. *Plant Physiol.* 170, 1848-1867.
93. Voorend W., Nelissen H.*, Vanholme R., De Vliegher A., Van Breusegem F., Boerjan W., Roldán-Ruiz I., Muylle H.# and **Inzé D.#** (2016). Overexpression of *GA20-OXIDASE1* impacts plant height, biomass allocation and saccharification efficiency in maize. *Plant Biotechnol. J.* 14, 997-1007.
94. Vanhaeren H., **Inzé D.*** and Gonzalez N. (2016). Plant growth beyond limits. *Trends Plant Sci.* 21, 102-109.
95. Van Landeghem S., Van Parys T., Dubois M., **Inzé D.** and Van de Peer Y.* (2016). Diffany: an ontology-driven framework to infer, visualise and analyse differential molecular networks. *BMC Bioinformatics* 17, 18.
96. Sabaghian E., Drebert Z., **Inzé D.#** and Saeys Y.** (2015). An integrated network of Arabidopsis growth regulators and its use for gene prioritization. *Sci. Rep.* 5, 17617.
97. Brasil J.N., Cabral L.M., Eloy N.B., Primo L.M.F., Barroso-Neto I.L., Perdigão Grangeiro L.P., Gonzalez N., **Inzé D.**, Ferreira P.C.G. and Hemerly A.S.* (2015). AIP1 is a novel Agenet/Tudor domain protein from Arabidopsis that interacts with regulators of DNA replication, transcription and chromatin remodeling. *BMC Plant Biol.* 15, 270.
98. Baute J., Herman D., Coppens F., De Block J., Slabbinck B., Dell'Acqua M., Pè M.E., Maere S., Nelissen H. and **Inzé D.*** (2015). Correlation analysis of the transcriptome of growing leaves with mature leaf parameters in a maize RIL population. *Genome Biol.* 16, 168.
99. Kir G., Ye H., Nelissen H., Anjanasree K., Neelakandan A.K., Kusnandar A.S., Luo A., **Inzé D.**, Sylvester A.W., Yin Y. and Becraft P.W.* (2015). RNA interference knockdown of BRASSINOSTEROID INSENSITIVE1 in maize reveals novel functions for brassinosteroid signaling in controlling plant architecture. *Plant Physiol.* 169, 826-839.
100. Dell'Acqua M., Gatti D.M., Pea G., Cattonaro F., Coppens F., Magris G., Hlaing A.L., Aung H.H., Nelissen H., Baute J., Frascaroli E., Churchill G.A., **Inzé D.**, Morgante M. and Pè M.E.* (2015). Genetic properties of the MAGIC maize population: a new platform for high definition QTL mapping in *Zea mays*. *Genome Biol.* 16, 167.
101. Gonzalez N.°, Pauwels L.°, Baekelandt A.°, De Milde L., Van Leene J., Besbrugge N., Heyndrickx K.S., Cuéllar Pérez A., Nagels Durand A., De Clercq R., Van De Slijke E., Vanden Bossche R., Eeckhout D., Gevaert K., Vandepoele K., De Jaeger G., Goossens A. and **Inzé D.*** (2015). A repressor protein complex regulates leaf growth in Arabidopsis. *Plant Cell* 27, 2273-2287. [Corrigendum *Plant Cell* 28, 824]
102. Eloy N., de Freitas Lima M., Ferreira P.C.G. and **Inzé D.*** (2015). The role of the anaphase-promoting complex/cyclosome in plant growth. *Crit. Rev. Plant Sci.* 34, 487-505.
103. Nelissen H., Eeckhout D., Demuyneck K., Persiau G., Walton A., Van Bel M., Vervoort M., Candaele J., De Block J., Aesaert S., Van Lijsebettens M., Goormachtig S., Vandepoele K., Van Leene J., Muszynski M., Gevaert K., **Inzé D.#** and De Jaeger G.** (2015). Dynamic changes in ANGUSTIFOLIA3 complex composition reveal a growth regulatory mechanism in the maize leaf. *Plant Cell* 27, 1605-1619.
104. Dubois M., Van den Broeck L., Claeys H., Van Vlierberghe K., Matsui M. and **Inzé D.*** (2015). The ETHYLENE RESPONSE FACTORS ERF6 and ERF11 antagonistically regulate mannitol-induced growth inhibition in Arabidopsis. *Plant Physiol.* 169, 166-179.
105. Wuyts N., Dhondt S. and **Inzé D.*** (2015). Measurement of plant growth in view of an integrative analysis of regulatory networks. *Curr. Opin. Plant Biol.* 25, 90-97.

106. Vercruyssen L.[°], Tognetti V.B.[°], Gonzalez N., Van Dingenen J., De Milde L., Bielach A., De Rycke R., Van Breusegem F. and **Inzé D.*** (2015). GROWTH REGULATING FACTOR5 stimulates Arabidopsis chloroplast division, photosynthesis, and leaf longevity. *Plant Physiol.* 167, 817-832.
107. Clauw P., Coppens F., De Beuf K., Dhondt S., Van Daele T., Maleux K., Storme V., Clement L., Gonzalez N.[#] and **Inzé D.**** (2015). Leaf responses to mild drought stress in natural variants of Arabidopsis. *Plant Physiol.* 167, 800-816. [Corrigendum *Plant Physiol.* 168, 1180]
108. González N. and **Inzé D.*** (2015). Molecular systems governing leaf growth: from genes to networks. *J. Exp. Bot.* 66, 1045-1054.
109. Proost S., Van Bel M., Vanechoutte D., Van de Peer Y., **Inzé D.**, Mueller-Roeber B. and Vandepoele K.* (2015). PLAZA 3.0: an access point for plant comparative genomics. *Nucleic Acids Res.* 43, D974-D981.
110. Voorend W., Lootens P., Nelissen H., Roldán-Ruiz I., **Inzé D.** and Muylle H.* (2014). LEAF-E: a tool to analyze grass leaf growth using function fitting. *Plant Methods* 10, 37.
111. Dhondt S.[°], Gonzalez N.[°], Blomme J., De Milde L., Van Daele T., Van Akoleyen D., Storme V., Coppens F., Beemster G.T.S. and **Inzé D.*** (2014). High-resolution time-resolved imaging of *in vitro* Arabidopsis rosette growth. *Plant J.* 80, 172-184.
112. Hachez C., Laloux T., Reinhardt H., Cavez D., Degand H., Grefen C., De Rycke R., **Inzé D.**, Blatt M.R., Russinova E. and Chaumont F.* (2014). Arabidopsis SNAREs SYP61 and SYP121 coordinate the trafficking of plasma membrane aquaporin PIP2;7 to regulate the cell membrane water permeability. *Plant Cell* 26, 3132-3147.
113. Vieira P.[°], De Clercq A.[°], Stals H., Van Leene J., Van De Slijke E., Van Isterdael G., Eeckhout D., Persiau G., Van Damme D., Verkest A., Antonino de Souza J.D. Jr., Glab N., Abad P., Engler G., **Inzé D.#**, De Veylder L.#, De Jaeger G.# and de Almeida Engler J.** (2014). The cyclin-dependent kinase inhibitor KRP6 induces mitosis and impairs cytokinesis in giant cells induced by plant-parasitic nematodes in Arabidopsis. *Plant Cell* 26, 2633-2647.
114. Debernardi J., Mecchia M.A., Vercruyssen L., Smaczniak C., Kaufmann K., **Inzé D.**, Rodriguez R.E. and Palatnik J.F.* (2014). Post-transcriptional control of GRF transcription factors by microRNA miR396 and GIF co-activator affects leaf size and longevity. *Plant J.* 79, 413-426.
115. Vanhaeren H.[°], Gonzalez N.[°], Coppens F., De Milde L., Van Daele T., Vermeersch M., Eloy N.B., Storme V. and **Inzé D.*** (2014). Combining growth-promoting genes leads to positive epistasis in Arabidopsis thaliana. *eLife* 3, e02252.
116. Claeys H., Van Landeghem S., Dubois M., Maleux K. and **Inzé D.*** (2014). What is stress? Dose-response effects in commonly used in vitro stress assays. *Plant Physiol.* 164, 519-527.
117. Andriankaja M.E.[°], Danisman S.[°], Mignolet-Spruyt L.F., Claeys H., Kochanke I., Vermeersch M., De Milde L., De Bodt S., Storme V., Skirycz A., Maurer F., Bauer P., Mühlenbock P., Van Breusegem F., Angenent G.C., Immink R.G.H. and **Inzé D.*** (2014). Transcriptional coordination between leaf cell differentiation and chloroplast development established by TCP20 and the subgroup Ib bHLH transcription factors. *Plant Mol. Biol.* 85, 233-245.
118. Candaele J., Demuyneck K., Mosoti D., Beemster G.T.S., **Inzé D.#** and Nelissen H.** (2014). Differential methylation during maize leaf growth targets developmentally regulated genes. *Plant Physiol.* 164, 1350-1364.
119. Nelissen H., Moloney M. and **Inzé D.*** (2014). Translational research: from pot to plot. *Plant Biotechnol. J.* 12, 277-285.
120. Verkest A., Abeel T., Heyndrickx K.S., Van Leene J., Lanz C., Van De Slijke E., De Winne N., Eeckhout D., Persiau G., Van Breusegem F., **Inzé D.**, Vandepoele K.** and De Jaeger G.** (2014). A generic tool for transcription factor target gene discovery in Arabidopsis cell suspension cultures based on tandem chromatin affinity purification. *Plant Physiol.* 164, 1112-1133. (*Shared senior authorship)

121. Fasano R., Gonzalez N., Tosco A., Dal Piaz F., Docimo T., Serrano R., Grillo S., Leone A. and **Inzé D.*** (2014). Role of *Arabidopsis* *UV RESISTANCE LOCUS 8* in plant growth reduction under osmotic stress and low levels of UV-B. *Mol. Plant* 7, 773-791.
122. Vercruyssen L., Verkest A., Gonzalez N., Heyndrickx K.S., Eeckhout D., Han S.-K., Jégu T., Archacki R., Van Leene J., Andriankaja M., De Bodt S., Abeel T., Coppens F., Dhondt S., De Milde L., Vermeersch M., Maleux K., Gevaert K., Jerzmanowski A., Benhamed M., Wagner D., Vandepoele K., De Jaeger G. and **Inzé D.*** (2014). ANGUSTIFOLIA3 binds to SWI/SNF chromatin remodeling complexes to regulate transcription during *Arabidopsis* leaf development. *Plant Cell* 26, 210-229.
123. Blomme J., **Inzé D.*** and Gonzalez N. (2014). The cell-cycle interactome: a source of growth regulators? *J. Exp. Bot.* 65, 2715-2730.
124. Claeys H., De Bodt S. and **Inzé D.*** (2014). Gibberellins and DELLAs: central nodes in growth regulatory networks. *Trends Plant Sci.* 19, 231-239.
125. Grunewald W.*, Bury J. and **Inzé D.** (2013). Biotechnology: Thirty years of transgenic plants. *Nature* 497, 40-40.
126. Claeys H. and **Inzé D.*** (2013). The agony of choice: how plants balance growth and survival under water-limiting conditions. *Plant Physiol.* 162, 1768-1779.
127. Dhondt S.°, Wuyts N.° and **Inzé D.*** (2013). Cell to whole-plant phenotyping: the best is yet to come. *Trends Plant Sci.* 18, 428-439.
128. Dubois M.°, Skiryicz A.°, Claeys H., Maleux K., Dhondt S., De Bodt S., Vanden Bossche R., De Milde L., Yoshizumi T., Matsui M. and **Inzé D.*** (2013). ETHYLENE RESPONSE FACTOR6 acts as a central regulator of leaf growth under water-limiting conditions in *Arabidopsis*. *Plant Physiol.* 162, 319-332.
129. Van Landeghem S., De Bodt S., Drebert Z.J., **Inzé D.** and Van de Peer Y.* (2013). The potential of text mining in data integration and network biology for plant research: a case study on *Arabidopsis*. *Plant Cell* 25, 794-807.
130. Bertolini E., Verelst W., Horner D.S., Gianfranceschi L., Piccolo V., **Inzé D.**, Pè M.E. and Mica E.* (2013). Addressing the role of microRNAs in reprogramming leaf growth during drought stress in *Brachypodium distachyon*. *Mol. Plant* 6, 423-443.
131. Huysman M.J.J., Fortunato A.E., Matthijs M., Schellenberger Costa B., Vanderhaeghen R., Van den Daele H., Sachse M., **Inzé D.**, Bowler C., Kroth P.G., Wilhelm C., Falciatore A., Vyverman W.# and De Veylder L.** (2013). AUREOCHROME1a-mediated induction of the diatom-specific cyclin *dsCYC2* controls the onset of cell division in diatoms (*Phaeodactylum tricornutum*). *Plant Cell* 25, 215-228.
132. Gillard J.°, Frenkel J.°, Devos V.°, Sabbe K., Paul C., Rempt M., **Inzé D.**, Pohnert G.*, Vuylsteke M.* and Vyverman W.* (2013). Metabolomics enables the structure elucidation of a diatom sex pheromone. *Angew. Chem. Int. Edit.* 53, 854-857.
133. Karimi M., **Inzé D.**, Van Lijsebettens M. and Hilson P.* (2013). Gateway vectors for transformation of cereals. *Trends Plant Sci.* 18, 1-4.
134. Zhiponova M.K., Vanhoutte I., Boudolf V., Betti C., Dhondt S., Coppens F., Mylle E., Maes S., González-García M.-P., Caño-Delgado A.I., **Inzé D.**, Beemster G.T.S., De Veylder L. and Russinova E.* (2013). Brassinosteroid production and signaling differentially control cell division and expansion in the leaf. *New Phytol.* 197, 490-502.
135. Verelst W., Bertolini E., De Bodt S., Vandepoele K., Demeulenaere M., Pè M.E. and **Inzé D.*** (2013). Molecular and physiological analysis of growth-limiting drought stress in *Brachypodium distachyon* leaves. *Mol. Plant* 6, 311-322.
136. De Beuf K.*, Pipelers P., Andriankaja M., Thas P., **Inzé D.**, Crainiceanu C. and Clement L.* (2012). Analysis of tiling array expression studies with flexible designs in Bioconductor (waveTiling). *BMC Bioinformatics* 13, 234.

137. Eloy N.B., Gonzalez N., Van Leene J., Maleux K., Vanhaeren H., De Milde L., Dhondt S., Vercruyse L., Witters E., Mercier R., Cromer L., Beemster G.T.S., Remaut H., Van Montagu M.C.E.* , De Jaeger G., Ferreira P.C.G. and **Inzé D.*** (2012). SAMBA, a plant-specific anaphase-promoting complex/cyclosome regulator is involved in early development and A-type cyclin stabilization. *Proc. Natl. Acad. Sci. USA* 109, 13853-13858.
138. De Rybel B.°, Audenaert D.°, Xuan W., Overvoorde P., Strader L.C., Kepinski S., Hoyer R., Brisbois R., Parizot B., Vanneste S., Liu X., Gilday A., Graham I.A., Nguyen L., Jansen L., Njoo M.F., **Inzé D.**, Bartel B. and Beekman T.* (2012). A role for the root cap in root branching revealed by the non-auxin probe naxillin. *Nat. Chem. Biol.* 8, 798-805.
139. Claeys H.°, Skirycz A.°, Maleux K. and **Inzé D.*** (2012). DELLA signaling mediates stress-induced cell differentiation in Arabidopsis leaves through modulation of anaphase-promoting complex/cyclosome activity. *Plant Physiol.* 159, 739-747.
140. Vannerum K., De Rycke R., Pollier J., Goossens A., **Inzé D.** and Vyverman W.* (2012). Characterization of a RABE (Ras gene from rat brain E) GTPase expressed during morphogenesis in the unicellular green alga *Micrasterias denticulata* (zygnematophyceae, streptophyta). *J. Phycol.* 48, 682-692.
141. Marshall A. Aalen R.B., Audenaert D., Beekman T., Broadley M.R., Butenko M.A., Caño-Delgado A.I., de Vries S., Dresselhaus T., Felix G., Graham N.S., Foulkes J., Granier C., Greb T., Grossniklaus U., Hammond J.P., Heidstra R., Hodgman C., Hothorn M., **Inzé D.**, Østergaard L., Russinova E., Simon R., Skirycz A., Stahl Y., Zipfel C. and De Smet I.* (2012). Tackling drought stress: RECEPTOR-LIKE KINASES present new approaches. *Plant Cell* 24, 2262-2278.
142. Andriankaja M.°, Dhondt S.°, De Bodt S.°, Vanhaeren H., Coppens F., De Milde L., Mühlenbock P., Skirycz A., Gonzalez N., Beemster G.T.S. and **Inzé D.*** (2012). Exit from proliferation during leaf development in *Arabidopsis thaliana*: a not-so-gradual process. *Dev. Cell* 22, 64-78.
143. Gonzalez N., Vanhaeren H. and **Inzé D.*** (2012). Leaf size control: complex coordination of cell division and expansion. *Trends Plant Sci.* 17, 332-340.
144. Nelissen H.°, Rymen B.°, Jikumaru Y., Demuyneck K., Van Lijsebettens M., Kamiya Y., **Inzé D.**** and Beemster G.T.S.# (2012). A local maximum in gibberellin levels regulates maize leaf growth by spatial control of cell division. *Curr. Biol.* 22, 1183-1187.
145. Sterken R.°, Kiekens R.°, Boruc J., Zhang F., Vercauteren A., Vercauteren I., De Smet L., Dhondt S., **Inzé D.**, De Veylder L., Russinova E. and Vuylsteke M.* (2012). Combined linkage and association mapping reveals *CYCD5;1* as a quantitative trait gene for endoreduplication in *Arabidopsis*. *Proc. Natl. Acad. Sci. USA* 109, 4678-4683.
146. Dhondt S., Van Haerenborgh D., Van Cauwenbergh C., Merks R.M.H., Philips W., Beemster G.T.S.# and **Inzé D.**** (2012). Quantitative analysis of venation patterns of Arabidopsis leaves by supervised image analysis. *Plant J.* 69, 553-563.
147. Spartz A.K.°, Lee S.H.°, Wenger J.P., Gonzalez N., Itoh H., **Inzé D.**, Peer W.A., Murphy A.S., Overvoorde P.J. and Gray W.M.* (2012). The *SAUR19* subfamily of *SMALL AUXIN UP RNA* genes promote cell expansion. *Plant J.* 70, 978-990.
148. De Bodt S.*, Hollunder J., Nelissen H., Meulemeester N. and **Inzé D.** (2012). CORNET 2.0: integrating plant coexpression, protein-protein interactions, regulatory interactions, gene associations and functional annotations. *New Phytol.* 195, 707-720.
149. Van Daele I.°, Gonzalez N.°, Vercauteren I., de Smet L., **Inzé D.**, Roldán-Ruiz I. and Vuylsteke M.* (2012). A comparative study of seed yield parameters in *Arabidopsis thaliana* mutants and transgenics. *Plant Biotechnol. J.* 10, 488-500.
150. Coussens G., Aesaert S., Verelst W., Demeulenaere M., De Buck S., Njuguna E., **Inzé D.** and Van Lijsebettens M.* (2012). *Brachypodium distachyon* promoters as efficient building blocks for transgenic research in maize. *J. Exp. Bot.* 63, 4263-4273.
151. Skirycz A.°, Vandenbroucke K.°, Clauw P., Maleux K., De Meyer B., Dhondt S., Pucci A., Gonzalez N., Hoerberichts F., Tognetti, V.B., Galbiati M., Tonelli C., Van Breusegem F., Vuylsteke M. and

- Inzé D.*** (2011). Survival and growth of *Arabidopsis* plants given limited water are not equal. *Nat. Biotechnol.* 29, 212-214.
152. Skirycz A.^o, Claeys H.^o, De Bodt S., Oikawa A., Shinoda S., Andriankaja M., Maleux K., Eloy N.B., Coppens F., Yoo S.-D., Saito K. and **Inzé D.*** (2011). Pause-and-stop: the effects of osmotic stress on cell proliferation during early leaf development in *Arabidopsis* and a role for ethylene signaling in cell cycle arrest. *Plant Cell* 23, 1876-1888.
 153. Radziejwoski A., Vlieghe K., Lammens T., Berckmans B., Maes S., Jansen M.A.K., Knappe C., Albert A., Seidlitz H.K., Bahnweg G., **Inzé D.** and De Veylder L.* (2011). Atypical E2F activity coordinates PHR1 photolyase gene transcription with endoreduplication onset. *EMBO J.* 30, 355-363.
 154. Vanneste S.^o, Coppens F.^o, Lee E., Donner T.J., Xie Z., Van Isterdael G., Dhondt S., De Winter F., De Rybel B., Vuylsteke M., De Veylder L., Friml J., **Inzé D.**, Grotewold E., Scarpella E., Sack F., Beemster G.T.S. and Beeckman T.* (2011). Developmental regulation of CYCA2s contributes to tissue-specific proliferation in *Arabidopsis*. *EMBO J.* 30, 3430-3441.
 155. Van Damme D.*, Gadeyne A., Vanstraelen M., **Inzé D.**, Van Montagu M.C.E.*, De Jaeger G., Russinova E. and Geelen D. (2011). Adaptin-like protein TPLATE and clathrin recruitment during plant somatic cytokinesis occurs via two distinct pathways. *Proc. Natl. Acad. Sci. USA* 108, 615-620.
 156. Maes L.^o, Van Nieuwerburgh F.C.W.^o, Zhang Y.^o, Reed D.W., Pollier J., Vande Castele S.R.F., **Inzé D.**, Covello P.S., Deforce D.L.D. and Goossens A.* (2011). Dissection of the phytohormonal regulation of trichome formation and biosynthesis of the anti-malarial compound artemisinin in *Artemisia annua* plants. *New Phytol.* 189, 176-189.
 157. Merks R.M.H.*, Guravage M., **Inzé D.#** and Beemster G.T.S.# (2011). *VirtualLeaf*: an open source framework for cell-based modeling of plant tissue growth and development. *Plant Physiol.* 155, 656-666.
 158. Vercruyssen L., Gonzalez N., Werner T., Schmölling T. and **Inzé D.*** (2011). Combining enhanced root and shoot growth reveals crosstalk between pathways that control plant organ size in *Arabidopsis*. *Plant Physiol.* 155, 1339-1352.
 159. Kheibarshekan Asl L.^o, Dhondt S.^o, Boudolf, V., Beemster G.T.S., Beeckman T., **Inzé D.**, Govaerts W. and De Veylder L.* (2011). Model-based analysis of *Arabidopsis* leaf epidermal cells reveals distinct division and expansion patterns for pavement and guard cells. *Plant Physiol.* 156, 2172-2183.
 160. Skirycz A.^o, Memmi S.^o, De Bodt S., Maleux K., Obata T., Fernie A.R., Devreese B. and **Inzé D.*** (2011). A reciprocal ¹⁵N-labeling proteomic analysis of expanding *Arabidopsis* leaves subjected to osmotic stress indicates importance of mitochondria in preserving plastid functions. *J. Proteome Res.* 10, 1018-1029.
 161. Sasabe M., Boudolf, V., De Veylder L., **Inzé D.**, Genschik P. and Machida Y.* (2011). Phosphorylation of a mitotic kinesin-like protein and a MAPKKK by cyclin-dependent kinases (CDKs) is involved in the transition to cytokinesis in plants. *Proc. Natl. Acad. Sci. USA* 108, 17844-17849.
 162. Eloy N.B., de Freitas Lima M., Van Damme D., Vanhaeren H., Gonzalez N., De Milde L., Hemerly A.S., Beemster G.T.S., **Inzé D.**** and Ferreira P.C.G.# (2011). The APC/C subunit 10 plays an essential role in cell proliferation during leaf development. *Plant J.* 68, 351-363.
 163. Hermans C.*, Chen J., Coppens F., **Inzé D.** and Verbruggen N. (2011). Low magnesium status in plants enhances tolerance to cadmium exposure. *New Phytol.* 192, 428-436.
 164. Vannerum K., Huysman M.J.J., De Rycke R., Vuylsteke M., Leliaert F., Pollier J., Lütz-Meindl U., Gillard J., De Veylder L., Goossens A., **Inzé D.** and Vyverman W.* (2011). Transcriptional analysis of cell growth and morphogenesis in the unicellular green alga *Micrasterias* (Streptophyta), with emphasis on the role of expansin. *BMC Plant Biol.* 11, 128.
 165. Pauwels L.^o, Fernández Barbero G.^o, Geerinck J.^o, Tilleman S., Grunewald W., Cuéllar Pérez A., Chico J.M., Vanden Bossche R., Sewell J., Gil E., García-Casado G., Witters E., **Inzé D.**, Long

- J.A., De Jaeger G., Solano R. and Goossens A.* (2010). NINJA connects the co-repressor TOPLESS to jasmonate signalling. *Nature* 464, 788-791.
166. Vogel J.P.* , Garvin D.F.* , Mockler T.C.* , Schmutz J., Rokhsar D., Bevan M.W.* , Barry K., Lucas S., Harmon-Smith M., Lail K., Tice H., Schmutz J., Grimwood J., McKenzie N., Bevan M.W., Huo N., Gu Y.Q., Lazo G.R., Anderson O.D., Vogel J.P., You F.M., Luo M.-C., Dvorak J., Wright J., Febrer M., Bevan M.W., Idziak D., Hasterok R., Garvin D.F., Lindquist E., Wang M., Fox S.E., Priest H.D., Filichkin S.A., Givan S.A., Bryant D.W., Chang J.H., Mockler T.C., Wu H., Wu W., Hsia A.-P., Schnable P.S., Kalyanaraman A., Barbazuk B., Michael T.P., Hazen S.P., Bragg J.N., Laudencia-Chingcuanco D., Vogel J.P., Garvin D.F., Weng Y., McKenzie N., Bevan M.W., Haberer G., Spannagl M., Mayer K., Rattei T., Mitros T., Rokhsar D., Lee S.-J., Rose J.K.C., Mueller L.A., York T.L., Wicker T., Buchmann J.P., Tanskanen J., Schulman A.H., Gundlach H., Wright J., Bevan M., Costa de Oliveira A., Maia L.d.C., Belknap W., Gu Y.Q., Jiang N., Lai J., Zhu L., Ma J., Sun C., Pritham E., Salse J., Murat F., Abrouk M., Haberer G., Spannagl M., Mayer K., Bruggmann R., Messing J., You F.M., Luo M.-C., Dvorak J., Fahlgren N., Fox S.E., Sullivan C.M., Mockler T.C., Carrington J.C., Chapman E.J., May G.D., Zhai J., Ganssmann M., Gurazada S.G.R., German M., Meyers B.C., Green P.J., Bragg J.N., Tyler L., Wu J., Gu Y.Q., Lazo G.R., Laudencia-Chingcuanco D., Thomson J., Vogel J.P., Hazen S.P., Chen S., Scheller H.V., Harholt J., Ulvskov P., Fox S.E., Filichkin S.A., Fahlgren N., Kimbrel J.A., Chang J.H., Sullivan C.M., Chapman E.J., Carrington J.C., Mockler T.C., Bartley L.E., Cao P., Jung K.-H., Sharma M.K., Vega-Sanchez M., Ronald P., Dardick C.D., De Bodt S., Verelst W., **Inzé D.**, Heese M., Schnittger A., Yang X., Kalluri U.C., Tuskan G.A., Hua Z., Vierstra R.D., Garvin D.F., Cui Y., Ouyang S., Sun Q., Liu Z., Yilmaz A., Grotewold E., Sibout R., Hematy K., Mouille G., Höfte H., Michael T., Pelloux J., O'Connor D., Schnable J., Rowe S., Harmon F., Cass C.L., Sedbrook J.C., Byrne M.E., Walsh S., Higgins J., Bevan M., Li P., Brutnell T., Unver T., Budak H., Belcram H., Charles M., Chalhou B., and Baxter I. (2010). Genome sequencing and analysis of the model grass *Brachypodium distachyon*. *Nature* 463, 763-768.
 167. Dhondt S., Vanhaeren H., Van Loo D., Cnudde, V. and **Inzé D.*** (2010). Plant structure visualization by high-resolution X-ray computed tomography. *Trends Plant Sci.* 15, 419-422.
 168. De Rybel B., Vassileva, V., Parizot B., Demeulenaere M., Grunewald W., Audenaert D., Van Campenhout J., Overvoorde P., Jansen L., Vanneste S., Möller B., Wilson M., Holman T., Van Isterdael G., Brunoud G., Vuylsteke M., Vernoux T., De Veylder L., **Inzé D.**, Weijers D., Bennett M.J. and Beeckman T.* (2010). A novel Aux/IAA28 signaling cascade activates GATA23-dependent specification of lateral root founder cell identity. *Curr. Biol.* 20, 1697-1706.
 169. De Smet I.* , Lau S.§, Voß U.§, Vanneste S., Benjamins R., Rademacher E.H., Schlereth A., De Rybel B., Vassileva, V., Grunewald W., Naudts M., Levesque M.P., Ehrishmann J.S., **Inzé D.**, Luschnig C., Benfey P.N., Weijers D., Van Montagu M.C.E., Bennett M.J., Jürgens G. and Beeckman T. (2010). Bimodular auxin response controls organogenesis in *Arabidopsis*. *Proc. Natl. Acad. Sci. USA* 107, 2705-2710.
 170. Van Leene J., Hollunder J., Eeckhout D., Persiau G., Van De Slijke E., Stals H., Van Isterdael G., Verkest A., Neiryneck S., Buffel Y., De Bodt S., Maere S., Laukens K., Pharazyn A., Ferreira P.C.G., Eloy N., Renne C., Meyer C., Faure J.-D., Steinbrenner J., Beynon J., Larkin J.C., Van de Peer Y., Hilson P., Kuiper M., De Veylder L., Van Onckelen H., **Inzé D.**, Witters E.# and De Jaeger G.*# (2010). Targeted interactomics reveals a complex core cell cycle machinery in *Arabidopsis thaliana*. *Mol. Syst. Biol.* 6, 397.1-397.12.
 171. Tognetti V.B.°, Van Aken O.°, Morreel K., Vandenbroucke K., van de Cotte B., De Clercq I., Chiwocha S., Fenske R., Prinsen E., Boerjan W., Genty B., Stubbs K.A., **Inzé D.** and Van Breusegem F.* (2010). Perturbation of indole-3-butyric acid homeostasis by the UDP-glucosyltransferase *UTG74E2* modulates *Arabidopsis* architecture and water stress tolerance. *Plant Cell* 22, 2660-2679.
 172. Boruc J., Van den Daele H., Hollunder J., Rombauts S., Mylle E., Hilson P., **Inzé D.**, De Veylder L.# and Russinova E.*# (2010). Functional modules in the *Arabidopsis* core cell cycle binary protein-protein interaction network. *Plant Cell* 22, 1264-1280.
 173. Takahashi N., Quimbaya M., Schubert, V., Lammens T., Vandepoele K., Schubert I., Matsui M., **Inzé D.**, Bex G. and De Veylder L.* (2010). The MCM-binding protein ETG1 aids sister chromatid cohesion required for postreplicative homologous recombination repair. *PLoS Genet.* 6, e1000817.

174. Skiryycz A. and **Inzé D.*** (2010). More from less: plant growth under limited water. *Curr. Opin. Biotechnol.* 21, 197-203.
175. Gaamouche T.°, de O. Manes C.-L.°, Kwiatkowska D., Berckmans B., Koumproglou R., Maes S., Beeckman T., Vernoux T., Doonan J.H., Traas J., **Inzé D.** and De Veylder L.* (2010). Cyclin-dependent kinase activity maintains the shoot apical meristem cells in an undifferentiated state. *Plant J.* 64, 26-37.
176. Vanhaeren H., Gonzalez N. and **Inzé D.*** (2010). Hide and seek: uncloaking the vegetative shoot apex of *Arabidopsis thaliana*. *Plant J.* 63, 541-548.
177. Huysman M.J.J., Martens C., Vandepoele K., Gillard J., Rayko E., Heijde M., Bowler C., **Inzé D.**, Van de Peer Y., De Veylder L. and Vyverman W.* (2010). Genome-wide analysis of the diatom cell cycle unveils a novel type of cyclins involved in environmental signaling. *Genome Biol.* 11, R17.1-R17.19.
178. Hermans C.*, Vuylsteke M., Coppens F., Cristescu S., Harren F.J.M., **Inzé D.** and Verbruggen N. (2010). Systems analysis of the responses to long-term magnesium deficiency and restoration in *Arabidopsis thaliana*. *New Phytol.* 187, 132-144.
179. Hermans C.*, Vuylsteke M., Coppens F., Craciun A., **Inzé D.** and Verbruggen N. (2010). Early transcriptomic changes induced by magnesium deficiency in *Arabidopsis thaliana* reveal the alteration of circadian clock gene expression in roots and the triggering of abscisic acid-responsive genes. *New Phytol.* 187, 119-131.
180. Skiryycz A., De Bodt S., Obata T., De Clercq I., Claeys H., De Rycke R., Andriankaja M., Van Aken O., Van Breusegem F., Fernie A.R. and **Inzé D.*** (2010). Developmental stage specificity and the role of mitochondrial metabolism in the response of *Arabidopsis* leaves to prolonged mild osmotic stress. *Plant Physiol.* 152, 226-244.
181. Boruc J., Mylle E., Duda M., De Clercq R., Rombauts S., Geelen D., Hilson P., **Inzé D.**, Van Damme D. and Russinova E.* (2010). Systematic localization of the *Arabidopsis* core cell cycle proteins reveals novel cell division complexes. *Plant Physiol.* 152, 553-565.
182. De Bodt S.*, Carvajal D., Hollunder J., Van den Cruyce J., Movahedi S. and **Inzé D.** (2010). CORNET: a user-friendly tool for data mining and integration. *Plant Physiol.* 152, 1167-1179.
183. Morreel K., Dima O., Kim H., Lu F., Niculaes C., Vanholme R., Dauwe R., Goeminne G., **Inzé D.**, Messens E., Ralph J. and Boerjan W.* (2010). Mass spectrometry-based sequencing of lignin oligomers. *Plant Physiol.* 153, 1464-1478.
184. Dhondt S., Coppens F., De Winter F., Swarup K., Merks R.M.H., **Inzé D.***, Bennett M.J. and Beemster G.T.S. (2010). SHORT-ROOT and SCARECROW regulate leaf growth in *Arabidopsis* by stimulating S-phase progression of the cell cycle. *Plant Physiol.* 154, 1183-1195.
185. Gonzalez N., De Bodt S., Sulpice R., Jikumaru Y., Chae E., Dhondt S., Van Daele T., De Milde L., Weigel D., Kamiya Y., Stitt M., Beemster G.T.S. and **Inzé D.*** (2010). Increased leaf size: different means to an end. *Plant Physiol.* 153, 1261-1279.
186. Komaki S., Abe T., Coutuer S., **Inzé D.**, Russinova E. and Hashimoto T.* (2010). Nuclear-localized subtype of end-binding 1 protein regulates spindle organization in *Arabidopsis*. *J. Cell Sci.* 123, 451-459.
187. Morreel K.*, Kim H., Lu F.C., Dima O., Akiyama T., Vanholme R., Niculaes C., Goeminne G., **Inzé D.**, Messens E., Ralph J. and Boerjan W.* (2010). Mass spectrometry-based fragmentation as an identification tool in lignomics. *Anal. Chem.* 82, 8095-8105.
188. Vannerum K., Abe J., Sekimoto H., **Inzé D.** and Vyverman W.* (2010). Intracellular localization of an endogenous cellulose synthase of *Micrasterias denticulata* (Desmidiaceae, Chlorophyta) by means of transient genetic transformation. *J. Phycol.* 46, 839-845.
189. Morita M.°, Shitan N.°, Sawada K., Van Montagu M.C.E.*, **Inzé D.**, Rischer H., Goossens A., Oksman-Caldentey K.-M., Moriyama Y. and Yazaki K.* (2009). Vacuolar transport of nicotine is mediated by a multidrug and toxic compound extrusion (MATE) transporter in *Nicotiana tabacum*. *Proc. Natl. Acad. Sci. USA* 106, 2447-2452.

190. Sterken R., Kiekens R., Coppens E., Vercauteren I., Zabeau M., **Inzé D.**, Flowers J. and Vuylsteke M.* (2009). A population genomics study on the *Arabidopsis* core cell cycle genes shows the signature of natural selection. *Plant Cell* 21, 2987-2998.
191. Pauwels L., **Inzé D.** and Goossens A.* (2009). Jasmonate-inducible gene: what does it mean? *Trends Plant Sci.* 14, 87-91.
192. Gonzalez N., Beemster G.T.S. and **Inzé D.*** (2009). David and Goliath: what can the tiny weed *Arabidopsis* teach us to improve biomass production in crops? *Curr. Opin. Plant Biol.* 12, 157-164.
193. Van Der Kelen K., Beyaert R., **Inzé D.*** and De Veylder L. (2009). Translational control of eukaryotic gene expression. *Crit. Rev. Biochem. Mol. Biol.* 44, 143-168.
194. Grunewald W.*, Vanholme B.§, Pauwels L.§, Plovie E., **Inzé D.**, Gheysen G. and Goossens A. (2009). Expression of the *Arabidopsis* jasmonate signalling repressor *JAZ1/TIFY10A* is stimulated by auxin. *EMBO Rep.* 10, 923-928.
195. de Almeida Engler J., De Veylder L., De Groot R., Rombauts S., Boudolf, V., De Meyer B., Hemerly A., Ferreira P., Beeckman T., Karimi M., Hilson P., **Inzé D.*** and Engler G. (2009). Systematic analysis of cell-cycle gene expression during *Arabidopsis* development. *Plant J.* 59, 645-660.
196. Naouar N., Vandepoele K., Lammens T., Casneuf T., Zeller G., Van Hummelen P., Weigel D., Rättsch G., **Inzé D.**, Kuiper M., De Veylder L.#, and Vuylsteke M.*# (2009). Quantitative RNA expression analysis with Affymetrix Tiling 1.0R arrays identifies new E2F target genes. *Plant J.* 57, 184-194.
197. Horiguchi G.*°, Gonzalez N.°, Beemster G.T.S., **Inzé D.** and Tsukaya H. (2009). Impact of segmental chromosomal duplications on leaf size in the *grandifolia-D* mutants of *Arabidopsis thaliana*. *Plant J.* 60, 122-133.
198. Boudolf, V., Lammens T., Boruc J., Van Leene J., Van Den Daele H., Maes S., Van Isterdael G., Russinova E., Kondorosi E., Witters E., De Jaeger G., **Inzé D.** and De Veylder L.* (2009). CDKB1;1 forms a functional complex with CYCA2;3 to suppress endocycle onset. *Plant Physiol.* 150, 1482-1493.
199. De Rybel B.°, Audenaert D.°, Vert G., Rozhon W., Mayerhofer J., Peelman F., Coutuer S., Denayer T., Jansen L., Nguyen L., Vanhoutte I., Beemster G.T.S., Vleminckx K., Jonak C., Chory J., **Inzé D.**, Russinova E.* and Beeckman T.* (2009). Chemical inhibition of a subset of *Arabidopsis thaliana* GSK3-like kinases activates brassinosteroid signaling. *Chem. Biol.* 16, 594-604.
200. Kutschmar A., Rzewuski G., Stührwohldt N., Beemster G.T.S., **Inzé D.** and Sauter M.* (2009). PSK- α promotes root growth in *Arabidopsis*. *New Phytol.* 181, 820-831.
201. Remmerie N., Roef L., Van De Slijke E., Van Leene J., Persiau G., Eeckhout D., Stals H., Laukens K., Lemièrre F., Esmans E., Van Onckelen H., **Inzé D.**, De Jaeger G. and Witters E.* (2009). A bioanalytical method for the proteome wide display and analysis of protein complexes from whole plant cell lysates. *Proteomics* 9, 598-609.
202. De Smet I.°, Vassileva V.°, De Rybel B., Levesque M.P., Grunewald W., Van Damme D., Van Noorden G., Naudts M., Van Isterdael G., De Clercq R., Wang J.Y., Meuli N., Vanneste S., Friml J., Hilson P., Jürgens G., Ingram G.C., **Inzé D.**, Benfey P.N. and Beeckman T.* (2008). Receptor-like kinase ACR4 restricts formative cell divisions in the *Arabidopsis* root. *Science* 322, 594-597.
203. Lammens T., Boudolf, V., Kheibarshekan L., Zalmas L.P., Gaamouche T., Maes S., Vanstraelen M., Kondorosi E., La Thangue N.B., Govaerts W., **Inzé D.** and De Veylder L.* (2008). Atypical E2F activity restrains APC/C^{CCS52A2} function obligatory for endocycle onset. *Proc. Natl. Acad. Sci. USA* 105, 14721-14726.
204. Pauwels L., Morreel K., De Witte E., Lammertyn F., Van Montagu M.*, Boerjan W., **Inzé D.** and Goossens A.* (2008). Mapping methyl jasmonate-mediated transcriptional reprogramming of metabolism and cell cycle progression in cultured *Arabidopsis* cells. *Proc. Natl. Acad. Sci. USA* 105, 1380-1385.

205. Pien S.* , Fleury D., Mylne J.S., Crevillen P., **Inzé D.**, Avramova Z., Dean C. and Grossniklaus U. (2008). Arabidopsis TRITHORAX1 dynamically regulates *FLOWERING LOCUS C* activation via histone 3 lysine 4 trimethylation. *Plant Cell* 20, 580-588.
206. Van Leene J., Witters E., **Inzé D.** and De Jaeger G.* (2008). Boosting tandem affinity purification of plant protein complexes. *Trends Plant Sci.* 13, 517-520.
207. Takahashi N., Lammens T., Boudolf, V., Maes S., Yoshizumi T., De Jaeger G., Witters E., **Inzé D.** and De Veylder L.* (2008). The DNA replication checkpoint aids survival of plants deficient in the novel replisome factor ETG1. *EMBO J.* 27, 1840-1851.
208. Masuda H.P.°, Cabral L.M.°, De Veylder L., Tanurdzic M., de Almeida Engler J., Geelen D., **Inzé D.**, Martienssen R.A., Ferreira P.C.G. and Hemerly A.S.* (2008). ABAP1 is a novel plant Armadillo BTB protein involved in DNA replication and transcription. *EMBO J.* 27, 2746-2756.
209. Vandebroucke K., Robbens S., Vandepoele K., **Inzé D.**, Van de Peer Y. and Van Breusegem F.* (2008). Hydrogen peroxide-induced gene expression across kingdoms: a comparative analysis. *Mol. Biol. Evol.* 25, 507-516.
210. Lessa Alvim Kamei C., Boruc J., Vandepoele K., Van den Daele H., Maes S., Russinova E., **Inzé D.*** and De Veylder L. (2008). The *PRA1* gene family in Arabidopsis. *Plant Physiol.* 147, 1735-1749.
211. Van Damme D., **Inzé D.** and Russinova E.* (2008). Vesicle trafficking during somatic cytokinesis. *Plant Physiol.* 147, 1544-1552.
212. Grunewald W.* , Karimi M., Wieczorek K., Van de Cappelle E., Wischnitzki E., Grundler F., **Inzé D.**, Beeckman T. and Gheysen G. (2008). A role for AtWRKY23 in feeding site establishment of plant-parasitic nematodes. *Plant Physiol.* 148, 358-368.
213. Gillard J., Devos, V., Huysman M.J.J., De Veylder L., D'Hondt S., Martens C., Vanormelingen P., Vannerum K., Sabbe K., Chepurinov, V.A., **Inzé D.***, Vuylsteke M. and Vyverman W. (2008). Physiological and transcriptomic evidence for a close coupling between chloroplast ontogeny and cell cycle progression in the pennate diatom *Seminavis robusta*. *Plant Physiol.* 148, 1394-1411.
214. Maes L., **Inzé D.** and Goossens A.* (2008). Functional specialization of the TRANSPARENT TESTA GLABRA1 network allows differential hormonal control of laminal and marginal trichome initiation in Arabidopsis rosette leaves. *Plant Physiol.* 148, 1453-1464.
215. Hoerberichts F.°, Vaeck E.°, Kiddle G., Coppens E., van de Cotte B., Adamantidis A., Ormenese S., Foyer C.H., Zabeau M., **Inzé D.**, Périlleux C., Van Breusegem F.*§ and Vuylsteke M.§ (2008). A temperature-sensitive mutation in the *Arabidopsis thaliana* phosphomannomutase gene disrupts glycosylation and triggers cell death. *J. Biol. Chem.* 283, 5708-5718.
216. Chepurinov V.A., Mann D.G., Sabbe K., **Inzé D.**, Gillard J., Vanormelingen P., von Dassow P. and Vyverman W.* (2008). In search of tractable diatoms for experimental biology. *BioEssays* 30, 692-702.
217. De Veylder L., Beeckman T. and **Inzé D.*** (2007). The ins and outs of the plant cell cycle. *Nat. Rev. Mol. Cell. Biol.* 8, 655-665.
218. Dissmeyer N., Nowack M.K.§, Pusch S.§, Stals H.§, **Inzé D.**, Grini P.E. and Schnittger A.* (2007). T-loop phosphorylation of *Arabidopsis* CDKA;1 is required for its function and can be partially substituted by an aspartate residue. *Plant Cell* 19, 972-985.
219. De Schutter K.°, Joubès J.°, Cools T., Verkest A., Corellou F., Babiychuk E., Van Der Schueren E., Beeckman T., Kushnir S., **Inzé D.** and De Veylder L.* (2007). *Arabidopsis* WEE1 kinase controls cell cycle arrest in response to activation of the DNA integrity checkpoint. *Plant Cell* 19, 211-225.
220. Fleury D.°, Himanen K.°, Cnops G., Nelissen H., Boccardi T.M., Maere S., Beemster G.T.S., Neyt P., Anami S., Robles P., Micol J.L., **Inzé D.** and Van Lijsebettens M.* (2007). The *Arabidopsis thaliana* homolog of yeast *BRE1* has a function in cell cycle regulation during early leaf and root growth. *Plant Cell* 19, 417-432.
221. Merks R.M.H.* , Van de Peer Y., **Inzé D.** and Beemster G.T.S. (2007). Canalization without flux sensors: a traveling-wave hypothesis. *Trends Plant Sci.* 12, 384-390.

222. Van Leene J.[°], Stals H.[°], Eeckhout D.[°], Persiau G., Van De Slijke E., Van Isterdael G., De Clercq A., Bonnet E., Laukens K., Remmerie N., Henderickx K., De Vijlder T., Abdelkrim A., Pharazyn A., Van Onckelen H., **Inzé D.**, Witters E.[#], and De Jaeger G.^{**} (2007). A tandem affinity purification-based technology platform to study the cell cycle interactome in *Arabidopsis thaliana*. *Mol. Cell. Proteomics* 6, 1226-1238.
223. De Smet I.[°], Tetsumura T.[°], De Rybel B., Frey dit Frei N., Laplaze L., Casimiro I., Swarup R., Naudts M., Vanneste S., Audenaert D., **Inzé D.**, Bennett M.J. and Beeckman T.* (2007). Auxin-dependent regulation of lateral root positioning in the basal meristem of *Arabidopsis*. *Development* 134, 681-690.
224. Van Aken O., Pečenková T., van de Cotte B., De Rycke R., Eeckhout D., Fromm H., De Jaeger G., Witters E., Beemster G.T.S., **Inzé D.** and Van Breusegem F.* (2007). Mitochondrial type-I prohibitins of *Arabidopsis thaliana* are required for supporting proficient meristem development. *Plant J.* 52, 850-864.
225. Rymen B., Fiorani F., Kartal F., Vandepoele K., **Inzé D.*** and Beemster G.T.S. (2007). Cold nights impair leaf growth and cell cycle progression in maize through transcriptional changes of cell cycle genes. *Plant Physiol.* 143, 1429-1438.
226. Peres A., Churchman M.L., Hariharan S., Himanen K., Verkest A., Vandepoele K., Magyar Z., Hatzfeld Y., Van Der Schueren E., Beemster G.T.S., Frankard, V., Larkin J.C., **Inzé D.** and De Veylder L.* (2007). Novel plant-specific cyclin-dependent kinase inhibitors induced by biotic and abiotic stresses. *J. Biol. Chem.* 282, 25588-25596.
227. Belenghi B.[°], Romero-Puertas M.C.[°], Vercammen D., Brackener A., **Inzé D.**, Delledonne M.* and Van Breusegem F.* (2007). Metacaspase activity of *Arabidopsis thaliana* is regulated by S-nitrosylation of a critical cysteine residue. *J. Biol. Chem.* 282, 1352-1358.
228. Spíchal L., Kryštof V., Paprskářová M., Lenobel R., Stýskala J., Binarová P., Cenklová, V., De Veylder L., **Inzé D.**, Kontopidis G., Fischer P.M.*, Schmülling T. and Strnad M. (2007). Classical anticytokinins do not interact with cytokinin receptors but inhibit cyclin-dependent kinases. *J. Biol. Chem.* 282, 14356-14363.
229. Fusaro A.F., Bocca S.N., Braz Ramos R.L., Barrôco R.M., Magioli C., Cardeal Jorge, V., Cardoso Coutinho T., Martins Rangel-Lima C., De Rycke R., **Inzé D.**, Engler G. and Sachetto-Martins G.* (2007). AtGRP2, a cold-induced nucleocytoplasmic RNA-binding protein, has a role in flower and seed development. *Planta* 225, 1339-1351.
230. Häkkinen S.T., Tilleman S., Świątek A., De Sutter, V., Rischer H., Vanhoutte I., Van Onckelen H., Hilson P., **Inzé D.**, Oksman-Caldentey K.-M.* and Goossens A. (2007). Functional characterisation of genes involved in pyridine alkaloid biosynthesis in tobacco. *Phytochemistry* 68, 2773-2785.
231. Geelen D.*, Royackers K., Vanstraelen M., De Bus M., **Inzé D.**, Van Dijck P., Thevelein J.M. and Leyman B. (2007). Trehalose-6-P synthase AtTPS1 high molecular weight complexes in yeast and *Arabidopsis*. *Plant Sci.* 173, 426-437.
232. **Inzé D.** and De Veylder L. (2006). Cell cycle regulation in plant development. *Annu. Rev. Genet.* 40, 77-105.
233. Vanstraelen M., Van Damme D., De Rycke R., Mylle E., **Inzé D.** and Geelen D. (2006). Cell cycle-dependent targeting of a kinesin at the plasma membrane demarcates the division site in plant cells. *Curr. Biol.* 16, 308-314.
234. Da Costa M., Bach L., Landrieu I., Bellec Y., Catrice O., Brown S., De Veylder L., Lippens G., **Inzé D.** and Faure J.-D. (2006). *Arabidopsis* PASTICCINO2 is an antiphosphatase involved in regulation of cyclin-dependent kinase A. *Plant Cell* 18, 1426-1437.
235. Churchman M.L., Brown M.L., Kato N., Kirik, V., Hülskamp M., **Inzé D.**, De Veylder L., Walker J.D., Zheng Z., Oppenheimer D.G., Gwin T., Churchman J. and Larkin J.C. (2006). SIAMESE, a plant-specific cell cycle regulator, controls endoreplication onset in *Arabidopsis thaliana*. *Plant Cell* 18, 3145-3157.

236. Van Damme D., Coutuer S., De Rycke R., Bouget F.-Y., **Inzé D.** and Geelen D. (2006). Somatic cytokinesis and pollen maturation in *Arabidopsis* depend on TPLATE, which has domains similar to coat proteins. *Plant Cell* 18, 3502-3518.
237. Rischer H., Orešič M., Seppänen-Laakso T., Katajamaa M., Lammertyn F., Ardiles-Diaz W., Van Montagu M.C.E., **Inzé D.**, Oksman-Caldentey K.-M. and Goossens A. (2006). Gene-to-metabolite networks for terpenoid indole alkaloid biosynthesis in *Catharanthus roseus* cells. *Proc. Natl. Acad. Sci. USA* 103, 5614-5619.
238. Vanstraelen M., **Inzé D.** and Geelen D. (2006). Mitosis-specific kinesins in *Arabidopsis*. *Trends Plant Sci.* 11, 167-175.
239. De Smet I., Zhang H., **Inzé D.** and Beeckman T. (2006). A novel role for abscisic acid emerges from underground. *Trends Plant Sci.* 11, 434-439.
240. Boudolf, V., **Inzé D.** and De Veylder L. (2006). What if higher plants lack a CDC25 phosphatase? *Trends Plant Sci.* 11, 474-479.
241. De Clercq A. and **Inzé D.*** (2006). Cyclin-dependent kinase inhibitors in yeast, animals and plants: a functional comparison. *Crit. Rev. Biochem. Mol. Biol.* 41, 293-313.
242. Barrôco R.M., Peres A., Droual A.-M., De Veylder L., Nguyen L.S.L., De Wolf J., Mironov, V., Peerbolte R., Beemster G.T.S., **Inzé D.***, Broekaert W.F. and Frankard, V. (2006). The cyclin-dependent kinase inhibitor Orysa;KRP1 plays an important role in rice seed development. *Plant Physiol.* 142, 1053-1064.
243. Gadjev I., Vanderauwera S., Gechev T.S., Laloi C., Minkov I.N., Shulaev, V., Apel K., **Inzé D.**, Mittler R. and Van Breusegem F. (2006). Transcriptomic footprints disclose specificity of reactive oxygen species signaling in *Arabidopsis*. *Plant Physiol.* 141, 436-445.
244. Zago E., Morsa S., Dat J.F., Alard P., Ferrarini A., **Inzé D.**, Delledonne M. and Van Breusegem F. (2006). Nitric oxide- and hydrogen peroxide-responsive gene regulation during cell death induction in tobacco. *Plant Physiol.* 141, 404-411.
245. Bisbis B., Delmas F., Joubès J., Sicard A., Hernould M., **Inzé D.**, Mouras A. and Chevalier C. (2006). Cyclin-dependent kinase (CDK) inhibitors regulate the CDK-cyclin complex activities in endoreduplicating cells of developing tomato fruit. *J. Biol. Chem.* 281, 7374-7383.
246. Vercammen D., Belenghi B., van de Cotte B., Beunens T., Gavigan J.-A., De Rycke R., Brackener A., **Inzé D.**, Harris J.L. and Van Breusegem F. (2006). Serpin1 of *Arabidopsis thaliana* is a suicide inhibitor for metacaspase 9. *J. Mol. Biol.* 364, 625-636.
247. Devos S., Laukens K., Deckers P., Van Der Straeten D., Beeckman T., **Inzé D.**, Van Onckelen H., Witters E. and Prinsen R. (2006). A hormone and proteome approach to picturing the initial metabolic events during *Plasmodiophora brassicae* infection on *Arabidopsis*. *Mol. Plant-Microbe Interact.* 19, 1431-1443.
248. De Smet I., Vanneste S., **Inzé D.** and Beeckman T. (2006). Lateral root initiation or the birth of a new meristem. *Plant Mol. Biol.* 60, 871-887.
249. Van Nieuwerburgh F.C.W., Vande Castele S.R.F., Maes L., Goossens A., **Inzé D.**, Van Bocxlaer J. and Deforce D.L.D. (2006). Quantitation of artemisinin and its biosynthetic precursors in *Artemisia annua* L. by high performance liquid chromatography-electrospray quadrupole time-of-flight tandem mass spectrometry. *J. Chromatogr. A* 1118, 180-187.
250. Beemster G.T.S., Vercruyssen S., De Veylder L., Kuiper M. and **Inzé D.** (2006). The *Arabidopsis* leaf as a model system for investigating the role of cell cycle regulation in organ growth. *J. Plant Res.* 119, 43-50.
251. Vlieghe K., Boudolf, V., Beemster G.T.S., Maes S., Magyar Z., Atanassova A., de Almeida Engler J., De Groot R., **Inzé D.*** and De Veylder L. (2005). The DP-E2F-like gene *DEL1* controls the endocycle in *Arabidopsis thaliana*. *Curr. Biol.* 15, 59-63.
252. Vanneste S., De Rybel B., Beemster G.T.S., Ljung K., De Smet I., Van Isterdael G., Naudts M., Iida R., Grissem W., Tasaka M., **Inzé D.**, Fukaki H. and Beeckman T. (2005). Cell cycle progression

- in the pericycle is not sufficient for SOLITARY ROOT/IAA14-mediated lateral root initiation in *Arabidopsis thaliana*. *Plant Cell* 17, 3035-3050.
253. Magyar Z., De Veylder L., Atanassova A., Bakó L., **Inzé D.** and Bögre L. (2005). The role of the *Arabidopsis* E2FB transcription factor in regulating auxin-dependent cell division. *Plant Cell* 17, 2527-2541.
 254. Verkest A., de Oliveira Manes C.-L., Vercruyssen S., Maes S., Van Der Schueren E., Beeckman T., Genschik P., Kuiper M., **Inzé D.*** and De Veylder L. (2005). The cyclin-dependent kinase inhibitor KRP2 controls the onset of the endoreduplication cycle during *Arabidopsis* leaf development through inhibition of mitotic CDKA;1 kinase complexes. *Plant Cell* 17, 1723-1736.
 255. Nelissen H., Fleury D., Bruno L., Robles P., De Veylder L., Traas J., Micol J.L., Van Montagu M., **Inzé D.** and Van Lijsebettens M. (2005). The *elongata* mutants identify a functional Elongator complex in plants with a role in cell proliferation during organ growth. *Proc. Natl. Acad. Sci. USA* 102, 7754-7759.
 256. **Inzé D.*** (2005). Green light for the cell cycle. *EMBO J.* 24, 657-662.
 257. De Sutter, V., Vanderhaeghen R., Tilleman S., Lammertyn F., Vanhoutte I., Karimi M., **Inzé D.**, Goossens A. and Hilson P. (2005). Exploration of jasmonate signalling via automated and standardized transient expression assays in tobacco cells. *Plant J.* 44, 1065-1076.
 258. Beemster G.T.S., Mironov, V. and **Inzé D.*** (2005). Tuning the cell-cycle engine for improved plant performance. *Curr. Opin. Biotechnol.* 16, 142-146.
 259. Robbens S., Khadaroo B., Camasses A., Derelle E., Ferraz C., **Inzé D.**, Van de Peer Y. and Moreau H. (2005). Genome-wide analysis of core cell cycle genes in the unicellular green alga *Ostreococcus tauri*. *Mol. Biol. Evol.* 22, 589-597 [Corrigendum *Mol. Biol. Evol.* 22, 1158].
 260. Vandepoele K., Vlieghe K., Florquin K., Hennig L., Beemster G.T.S., Grissem W., Van de Peer Y., **Inzé D.*** and De Veylder L. (2005). Genome-wide identification of potential plant E2F target genes. *Plant Physiol.* 139, 316-328.
 261. Vanderauwera S., Zimmermann P., Rombauts S., Vandenabeele S., Langebartels C., Grissem W., **Inzé D.*** and Van Breusegem F. (2005). Genome-wide analysis of hydrogen peroxide-regulated gene expression in *Arabidopsis* reveals a high light-induced transcriptional cluster involved in anthocyanin biosynthesis. *Plant Physiol.* 139, 806-821.
 262. Montillet J.-L., Chamnongpol S., Rustérucci C., Dat J., Van de Cotte B., Agnel J.-P., Battesti C., **Inzé D.**, Van Breusegem F. and Triantaphylidès C. (2005). Fatty acid hydroperoxides and H₂O₂ in the execution of hypersensitive cell death in tobacco leaves. *Plant Physiol.* 138, 1516-1526.
 263. Beemster G.T.S., De Veylder L., Vercruyssen S., West G., Rombaut D., Van Hummelen P., Galichet A., Grissem W., **Inzé D.*** and Vuylsteke M. (2005). Genome-wide analysis of gene expression profiles associated with cell cycle transitions in growing organs of *Arabidopsis*. *Plant Physiol.* 138, 734-743.
 264. Barrôco R.M., Van Poucke K., Bergervoet J.H.W., De Veylder L., Groot S.P.C., **Inzé D.*** and Engler G. (2005). The role of the cell cycle machinery in resumption of postembryonic development. *Plant Physiol.* 137, 127-140.
 265. Verkest A., Weinl C., **Inzé D.**, De Veylder L. and Schnittger A. (2005). Switching the cell cycle. Kip-related proteins in plant cell cycle control. *Plant Physiol.* 139, 1099-1106.
 266. Mano J., Belles-Boix E., Babiyshuk E., **Inzé D.**, Torii Y., Hiraoka E., Takimoto K., Slooten L., Asada K. and Kushnir S. (2005). Protection against photooxidative injury of tobacco leaves by 2-alkenal reductase. Detoxication of lipid peroxide-derived reactive carbonyls. *Plant Physiol.* 139, 1773-1783.
 267. Kwade Z., Świątek A., Azmi A., Goossens A., **Inzé D.**, Van Onckelen H. and Roef L. (2005). Identification of four adenosine kinase isoforms in tobacco By-2 cells and their putative role in the cell cycle-regulated cytokinin metabolism. *J. Biol. Chem.* 280, 17512-17519 [Corrigendum *J. Biol. Chem.* 280, 22555].
 268. Wolucka B.A., Goossens A. and **Inzé D.** (2005). Methyl jasmonate stimulates the *de novo* biosynthesis of vitamin C in plant cell suspensions. *J. Exp. Bot.* 56, 2527-2538.

269. Vanneste S., Maes L., De Smet I., Himanen K., Naudts M., **Inzé D.** and Beeckman T. (2005). Auxin regulation of cell cycle and its role during lateral root initiation. *Physiol. Plant.* 123, 139-146.
270. Ahlfors R., Lång S., Overmyer K., Jaspers P., Brosché M., Tauriainen A., Kollist H., Tuominen H., Belles-Boix E., Piippo M., **Inzé D.**, Palva E.T. and Kangasjärvi J. (2004). Arabidopsis RADICAL-INDUCED CELL DEATH1 belongs to the WWE protein-protein interaction domain protein family and modulates abscisic acid, ethylene, and methyl jasmonate responses. *Plant Cell* 16, 1925-1937.
271. Boudolf, V., Vlieghe K., Beemster G.T.S., Magyar Z., Torres Acosta J.A., Maes S., Van Der Schueren E., **Inzé D.*** and De Veylder L. (2004). The plant-specific cyclin-dependent kinase CDKB1;1 and transcription factor E2Fa-DPa control the balance of mitotically dividing and endoreduplicating cells in Arabidopsis. *Plant Cell* 16, 2683-2692.
272. Boudolf, V., Barrôco R., de Almeida Engler J., Verkest A., Beeckman T., Naudts M., **Inzé D.*** and De Veylder L. (2004). B1-type cyclin-dependent kinases are essential for the formation of stomatal complexes in *Arabidopsis thaliana*. *Plant Cell* 16, 945-955.
273. Landrieu I., da Costa M., De Veylder L., Dewitte F., Vandepoele K., Hassan S., Wieruszkeski J.-M., Corellou F., Faure J.-D., Van Montagu M., **Inzé D.** and Lippens G. (2004). A small CDC25 dual-specificity tyrosine-phosphatase isoform in *Arabidopsis thaliana*. *Proc. Natl. Acad. Sci. USA* 101, 13380-13385 [Corrigendum *Proc. Natl. Acad. Sci. USA* 101, 16391].
274. Himanen K., Vuylsteke M., Vanneste S., Vercruysse S., Boucheron E., Alard P., Chriqui D., Van Montagu M., **Inzé D.*** and Beeckman T. (2004). Transcript profiling of early lateral root initiation. *Proc. Natl. Acad. Sci. USA* 101, 5146-5151.
275. Oksman-Caldentey K.-M. and **Inzé D.** (2004). Plant cell factories in the post-genomic era: new ways to produce designer secondary metabolites. *Trends Plant Sci.* 9, 433-440.
276. Van Damme D., Bouget F.-Y., Van Poucke K., **Inzé D.*** and Geelen D. (2004). Molecular dissection of plant cytokinesis and phragmoplast structure: a survey of GFP-tagged proteins. *Plant J.* 40, 386-398.
277. Vandenaabeele S., Vanderauwera S., Vuylsteke M., Rombauts S., Langebartels C., Seidlitz H.K., Zabeau M., Van Montagu M., **Inzé D.*** and Van Breusegem F. (2004). Catalase deficiency drastically affects gene expression induced by high light in *Arabidopsis thaliana*. *Plant J.* 39, 45-58.
278. Joubès J., De Schutter K., Verkest A., **Inzé D.*** and De Veylder L. (2004). Conditional, recombinase-mediated expression of genes in plant cell cultures. *Plant J.* 37, 889-896.
279. West G., **Inzé D.*** and Beemster G.T.S. (2004). Cell cycle modulation in the response of the primary root of Arabidopsis to salt stress. *Plant Physiol.* 135, 1050-1058.
280. Vanstraelen M., Torres Acosta J.A., De Veylder L., **Inzé D.*** and Geelen D. (2004). A plant-specific subclass of C-terminal kinesins contains a conserved A-type cyclin-dependent kinase site implicated in folding and dimerization. *Plant Physiol.* 135, 1417-1429.
281. Fourcroy P., Vansuyt G., Kushnir S., **Inzé D.** and Briat J.-F. (2004). Iron-regulated expression of a cytosolic ascorbate peroxidase encoded by the *APX1* gene in Arabidopsis seedlings. *Plant Physiol.* 134, 605-613.
282. Van Damme D., Van Poucke K., Boutant E., Ritzenthaler C., **Inzé D.*** and Geelen D. (2004). In vivo dynamics and differential microtubule-binding activities of MAP65 proteins. *Plant Physiol.* 136, 3956-3967.
283. Vercammen D., van de Cotte B., De Jaeger G., Eeckhout D., Casteels P., Vandepoele K., Vandenberghe I., Van Beeumen J., **Inzé D.*** and Van Breusegem F. (2004). Type II metacaspases Atmc4 and Atmc9 of *Arabidopsis thaliana* cleave substrates after arginine and lysine. *J. Biol. Chem.* 279, 45329-45336.
284. Torres Acosta J.A., de Almeida Engler J., Raes J., Magyar Z., De Groodt R., **Inzé D.*** and De Veylder L. (2004). Molecular characterization of *Arabidopsis* PHO80-like-proteins, a novel class of CDKA;1-interacting cyclins. *Cell. Mol. Life Sci.* 61, 1485-1497.

285. Świątek A., Azmi A., Stals H., **Inzé D.** and Van Onckelen H. (2004). Jasmonic acid prevents the accumulation of cyclin B1;1 and CDK-B in synchronized tobacco BY-2 cells. *FEBS Lett.* 572, 118-122.
286. Landrieu I., Hassan S., Sauty M., Dewitte F., Wieruszeski J.-M., **Inzé D.**, De Veylder L. and Lippens G. (2004). Characterization of the *Arabidopsis thaliana* Arath;CDC25 dual-specificity tyrosine phosphatase. *Biochem. Biophys. Res. Commun.* 322, 734-739.
287. Ormenese S., de Almeida Engler J., De Groot R., De Veylder L., **Inzé D.** and Jacqmard A. (2004). Analysis of the spatial expression pattern of seven Kip related proteins (KRPs) in the shoot apex of *Arabidopsis thaliana*. *Ann. Bot.* 93, 575-580.
288. Eeckhout D., De Clercq A., Van De Slijke E., Van Leene J., Stals H., Casteels P., Persiau G., Vercammen D., Van Breusegem F., Zabeau M., **Inzé D.**, Jespers L., Depicker A. and De Jaeger G. (2004). A technology platform for the fast production of monoclonal recombinant antibodies against plant proteins and peptides. *J. Immunol. Methods* 294, 181-187.
289. De Smet I., Chaerle P., Vanneste S., De Rycke R., **Inzé D.** and Beeckman T. (2004). An easy and versatile embedding method for transverse sections. *J. Microsc.* 213, 76-80.
290. Nelissen H., Clarke J.H., De Block M., De Block S., Vanderhaeghen R., Zielinski R.E., Dyer T., Lust S., **Inzé D.** and Van Lijsebettens M. (2003). DRL1, a homolog of the yeast TOT4/KTI12 protein, has a function in meristem activity and organ growth in plants. *Plant Cell* 15, 639-654.
291. De Veylder L., Joubès J. and **Inzé D.*** (2003). Plant cell cycle transitions. *Curr. Opin. Plant Biol.* 6, 536-543.
292. Goossens A., Häkkinen S.T., Laakso I., Seppänen-Laakso T., Biondi S., De Sutter, V., Lammertyn F., Nuutila A.M., Söderlund H., Zabeau M., **Inzé D.*** and Oksman-Caldentey K.M. (2003). A functional genomics approach toward the understanding of secondary metabolism in plant cells. *Proc. Natl. Acad. Sci. USA* 100, 8595-8600.
293. Vandenabeele S., Van Der Kelen K., Dat J., Gadjev I., Boonefaes T., Morsa S., Rottiers P., Slooten L., Van Montagu M., Zabeau M., **Inzé D.*** and Van Breusegem F. (2003). A comprehensive analysis of hydrogen peroxide-induced gene expression in tobacco. *Proc. Natl. Acad. Sci. USA* 100, 16113-16118.
294. Dat J.F., Pellinen R., Beeckman T., Van De Cotte B., Langebartels C., Kangasjärvi J., **Inzé D.*** and Van Breusegem F. (2003). Changes in hydrogen peroxide homeostasis trigger an active cell death process in tobacco. *Plant J.* 33, 621-632.
295. De Smet I., Signora L., Beeckman T., **Inzé D.**, Foyer C.H. and Zhang H. (2003). An abscisic acid-sensitive checkpoint in lateral root development of *Arabidopsis*. *Plant J.* 33, 543-555.
296. Vlieghe K., Vuylsteke M., Florquin K., Rombauts S., Maes S., Ormenese S., Van Hummelen P., Van de Peer Y., **Inzé D.*** and De Veylder L. (2003). Microarray analysis of *E2Fa-DPa*-overexpressing plants uncovers a cross-talking genetic network between DNA replication and nitrogen assimilation. *J. Cell Sci.* 116, 4249-4259.
297. Himanen K., Reuzeau C., Beeckman T., Melzer S., Grandjean O., Corben L. and **Inzé D.*** (2003). The *Arabidopsis* locus *RCB* mediates upstream regulation of mitotic gene expression. *Plant Physiol.* 133, 1862-1872.
298. Goossens A., Häkkinen S., Laakso I., Oksman-Caldentey K.-M. and **Inzé D.*** (2003). Secretion of secondary metabolites by ATP-binding cassette transporters in plant cell suspension cultures. *Plant Physiol.* 131, 1161-1164.
299. Barrôco R.M., De Veylder L., Magyar Z., Engler G., **Inzé D.*** and Mironov, V. (2003). Novel complexes of cyclin-dependent kinases and a cyclin-like protein from *Arabidopsis thaliana* with a function unrelated to cell division. *Cell. Mol. Life Sci.* 60, 401-412.
300. **Inzé D.*** (2003). Why should we study the plant cell cycle? *J. Exp. Bot.* 54, 1125-1126.
301. Breyne P., Dreesen R., Cannoot B., Rombaut D., Vandepoele K., Rombauts S., Vanderhaeghen R., **Inzé D.*** and Zabeau M. (2003). Quantitative cDNA-AFLP analysis for genome-wide expression studies. *Mol. Genet. Genomics* 269, 173-179.

302. Gechev T., Willekens H., Van Montagu M., **Inzé D.**, Van Camp W., Toneva, V. and Minkov I. (2003). Different responses of tobacco antioxidant enzymes to light and chilling stress. *J. Plant Physiol.* 160, 509-515.
303. Himanen K., Boucheron E., de Almeida Engler J., **Inzé D.*** and Beeckman T. (2002). Auxin-mediated cell cycle activation during early lateral root initiation. *Plant Cell* 14, 2339-2351.
304. Vandepoele K., Raes J., De Veylder L., Rouzé P., Rombauts S. and **Inzé D.*** (2002). Genome-wide analysis of core cell cycle genes in Arabidopsis. *Plant Cell* 14, 903-916.
305. Breyne P., Dreesen R., Vandepoele K., De Veylder L., Van Breusegem F., Callewaert L., Rombauts S., Raes J., Cannoot B., Engler G., **Inzé D.*** and Zabeau M. (2002). Transcriptome analysis during cell division in plants. *Proc. Natl. Acad. Sci. USA* 99, 14825-14830.
306. Vranová E., Atichartpongkul S., Villarroel R., Van Montagu M., **Inzé D.*** and Van Camp W. (2002). Comprehensive analysis of gene expression in *Nicotiana tabacum* leaves acclimated to oxidative stress. *Proc. Natl. Acad. Sci. USA* 99, 10870-10875.
307. De Veylder L., Beeckman T., Beemster G.T.S., de Almeida Engler J., Ormenese S., Maes S., Naudts M., Van Der Schueren E., Jacquemard A., Engler G. and **Inzé D.*** (2002). Control of proliferation, endoreduplication and differentiation by the *Arabidopsis* E2Fa-DPa transcription factor. *EMBO J.* 21, 1360-1368.
308. Autran D., Jonak C., Belcram K., Beemster G.T.S., Kronenberger J., Grandjean O., **Inzé D.** and Traas J. (2002). Cell numbers and leaf development in *Arabidopsis*: a functional analysis of the *STRUWWELPETER* gene. *EMBO J.* 21, 6036-6049.
309. Karimi M., **Inzé D.*** and Depicker A. (2002). GATEWAY™ vectors for *Agrobacterium*-mediated plant transformation. *Trends Plant Sci.* 7, 193-195.
310. Rizhsky L., Hallak-Herr E., Van Breusegem F., Rachmilevitch S., Barr J.E., Rodermeil S., **Inzé D.** and Mittler R. (2002). Double antisense plants lacking ascorbate peroxidase and catalase are less sensitive to oxidative stress than single antisense plants lacking ascorbate peroxidase or catalase. *Plant J.* 32, 329-342.
311. Storozhenko S., Belles-Boix E., Babiychuk E., Hérouart D., Davey M.W., Sooten L., Van Montagu M., **Inzé D.*** and Kushnir S. (2002). γ -Glutamyl transpeptidase in transgenic tobacco plants. Cellular localization, processing, and biochemical properties. *Plant Physiol.* 128, 1109-1119.
312. Beemster G.T.S., De Vusser K., De Tavernier E., De Bock K. and **Inzé D.*** (2002). Variation in growth rate between Arabidopsis ecotypes is correlated with cell division and A-type cyclin-dependent kinase activity. *Plant Physiol.* 129, 854-864.
313. Świątek A., Lenjou M., Van Bockstaele D., **Inzé D.** and Van Onckelen H. (2002). Differential effect of jasmonic acid and abscisic acid on cell cycle progression in tobacco BY-2 cells. *Plant Physiol.* 128, 201-211.
314. Criqui M.C., de Almeida Engler J., Camasses A., Capron A., Parmentier Y., **Inzé D.** and Genschik P. (2002). Molecular characterization of plant ubiquitin-conjugating enzymes belonging to the UbcP4/E2-C/UBCx/UbcH10 gene family. *Plant Physiol.* 130, 1230-1240.
315. Beeckman T., Przemeck G.K.H., Stamatiou G., Lau R., Terryn N., De Rycke R., **Inzé D.** and Berleth T. (2002). Genetic complexity of cellulose synthase A gene function in Arabidopsis embryogenesis. *Plant Physiol.* 130, 1883-1893.
316. Odaert B., Landrieu I., Dijkstra K., Schuurman-Wolters G., Casteels P., Wieruszkeski J.-M., **Inzé D.**, Scheek R. and Lippens G. (2002). Solution NMR study of the monomeric form of p13^{suc1} protein sheds light on the hinge region determining the affinity for a phosphorylated substrate. *J. Biol. Chem.* 277, 12375-12381.
317. Landrieu I., Wieruszkeski J.-M., Wintjens R., **Inzé D.** and Lippens G. (2002). Solution structure of the single-domain prolyl *cis/trans* isomerase PIN1At from *Arabidopsis thaliana*. *J. Mol. Biol.* 320, 321-332.

318. Gechev T., Gadjev I., Van Breusegem F., **Inzé D.**, Dukiandjiev S., Toneva, V. and Minkov I. (2002). Hydrogen peroxide protects tobacco from oxidative stress by inducing a set of antioxidant enzymes. *Cell. Mol. Life Sci.* 59, 708-714.
319. Vranová E., **Inzé D.*** and Van Breusegem F. (2002). Signal transduction during oxidative stress. *J. Exp. Bot.* 53, 1227-1236.
320. Planchais S., Perennes C., Glab N., Mironov, V., **Inzé D.** and Bergounioux C. (2002). Characterisation of *cis*-acting element involved in cell cycle phase-independent activation of *Arath*;CycB1;1 transcription and identification of putative regulatory proteins. *Plant Mol. Biol.* 50, 111-127.
321. Mano J., Torii Y., Hayashi S.-i., Takimoto K., Matsui K., Nakamura K., **Inzé D.**, Babiychuk E., Kushnir S. and Asada K. (2002). The NADPH:quinone oxidoreductase P1- ζ -crystallin in *Arabidopsis* catalyzes the α,β -hydrogenation of 2-alkenals: detoxication of the lipid peroxide-derived reactive aldehydes. *Plant Cell Physiol.* 43, 1445-1455.
322. Richard C., Lescot M., **Inzé D.*** and De Veylder L. (2002). Effect of auxin, cytokinin, and sucrose on cell cycle gene expression in *Arabidopsis thaliana* cell suspension cultures. *Plant Cell Tissue Organ Cult.* 69, 167-176.
323. Casimiro I., Marchant A., Bhalerao R.P., Beeckman T., Dhooge S., Swarup R., Graham N., **Inzé D.**, Sandberg G., Casero P.J. and Bennett M. (2001). Auxin transport promotes *Arabidopsis* lateral root initiation. *Plant Cell* 13, 843-852.
324. De Veylder L., Beeckman T., Beemster G.T.S., Krols L., Terras F., Landrieu I., Van Der Schueren E., Maes S., Naudts M. and **Inzé D.*** (2001). Functional analysis of cyclin-dependent kinase inhibitors of *Arabidopsis*. *Plant Cell* 13, 1653-1667.
325. Stals H. and **Inzé D.*** (2001). When plant cells decide to divide. *Trends Plant Sci.* 6, 359-364.
326. De Veylder L., Beemster G.T.S., Beeckman T. and **Inzé D.*** (2001). *CKS1At* overexpression in *Arabidopsis thaliana* inhibits growth by reducing meristem size and inhibiting cell-cycle progression. *Plant J.* 25, 617-626.
327. Geelen D.N.V. and **Inzé D.G.*** (2001). A bright future for the Bright Yellow-2 cell culture. *Plant Physiol.* 127, 1375-1379.
328. Landrieu I., Odaert B., Wieruszkeski J.-M., Drobecq H., Rousselot-Pailley P., **Inzé D.** and Lippens G. (2001). p13^{SUC1} and the WW domain of PIN1 bind to the same phosphothreonine-proline epitope. *J. Biol. Chem.* 276, 1434-1438.
329. Porceddu A., Stals H., Reichheld J.-P., Segers G., De Veylder L., De Pinho Barrôco R., Casteels P., Van Montagu M., **Inzé D.*** and Mironov, V. (2001). A plant-specific cyclin-dependent kinase is involved in the control of G₂/M progression in plants. *J. Biol. Chem.* 276, 36354-36360.
330. Temmerman W., Ritsema T., Simón-Mateo C., Van Montagu M., Mironov, V., **Inzé D.**, Goethals K. and Holsters M. (2001). The *fas* locus of the phytopathogen *Rhodococcus fascians* affects mitosis of tobacco BY-2 cells. *FEBS Lett.* 492, 127-132.
331. Richard C., Granier C., **Inzé D.*** and De Veylder L. (2001). Analysis of cell division parameters and cell cycle gene expression during the cultivation of *Arabidopsis thaliana* cell suspensions. *J. Exp. Bot.* 52, 1625-1633.
332. Storozhenko S., **Inzé D.**, Van Montagu M. and Kushnir S. (2001). *Arabidopsis* coactivator ALY-like proteins, DIP1 and DIP2, interact physically with the DNA-binding domain of the Zn-finger poly(ADP-ribose) polymerase. *J. Exp. Bot.* 52, 1375-1380.
333. Boudolf, V., Rombauts S., Naudts M., **Inzé D.*** and De Veylder L. (2001). Identification of novel cyclin-dependent kinases interacting with the CKS1 protein of *Arabidopsis*. *J. Exp. Bot.* 52, 1381-1382.
334. Beeckman T., Burssens S. and **Inzé D.*** (2001). The peri-cell-cycle in *Arabidopsis*. *J. Exp. Bot.* 52, 403-411.

335. Vranová E., Tähtiharju S., Sriprang R., Willekens H., Heino P., Palva E.T., **Inzé D.*** and Van Camp W. (2001). The AKT3 potassium channel protein interacts with the AtPP2CA protein phosphatase 2C. *J. Exp. Bot.* 52, 181-182.
336. Dat J.F.*, **Inzé D.** and Van Breusegem F. (2001). Catalase-deficient tobacco plants: tools for *in planta* studies on the role of hydrogen peroxide. *Redox Rep.* 6, 37-42.
337. Van Breusegem F., Vranová E., Dat J.F. and **Inzé D.*** (2001). The role of active oxygen species in plant signal transduction. *Plant Sci.* 161, 405-414.
338. Vernoux T., Wilson R.C., Seeley K.A., Reichheld J.-P., Muroy S., Brown S., Maughan S.C., Cobbett C.S., Van Montagu M., **Inzé D.**, May M.J. and Sung Z.R. (2000). The *ROOT MERISTEMLESS1/CADMIUM SENSITIVE2* gene defines a glutathione-dependent pathway involved in initiation and maintenance of cell division during postembryonic root development. *Plant Cell* 12, 97-109.
339. Hemerly A.S., Ferreira P.C.G., Van Montagu M., Engler G. and **Inzé D.*** (2000). Cell division events are essential for embryo patterning and morphogenesis: studies on dominant-negative *cdc2aAt* mutants of *Arabidopsis*. *Plant J.* 23, 123-130.
340. Granier C.*, **Inzé D.** and Tardieu F. (2000). Spatial distribution of cell division rate can be deduced from that of p34^{cdc2} kinase activity in maize leaves grown at contrasting temperatures and soil water conditions. *Plant Physiol.* 124, 1393-1402.
341. Landrieu I.*, De Veylder L., Fruchart J.S., Odaert B., Casteels P., Portetelle D., Van Montagu M., **Inzé D.** and Lippens G. (2000). The *Arabidopsis thaliana PIN1At* gene encodes a single-domain phosphorylation-dependent peptidyl prolyl *cis/trans* isomerase. *J. Biol. Chem.* 275, 10577-10581.
342. Dat J., Vandenabeele S., Vranová E., Van Montagu M., **Inzé D.*** and Van Breusegem F. (2000). Dual action of the active oxygen species during plant stress responses. *Cell. Mol. Life Sci.* 57, 779-795.
343. Belles-Boix E., Babiyshuk E., Van Montagu M., **Inzé D.*** and Kushnir S. (2000). CEO1, a new protein from *Arabidopsis thaliana*, protects yeast against oxidative damage. *FEBS Lett.* 482, 19-24.
344. Planchais S.*, Glab N., **Inzé D.** and Bergounioux C. (2000). Chemical inhibitors: a tool for plant cell cycle studies. *FEBS Lett.* 476, 78-83.
345. Magyar Z., Atanassova A., De Veylder L., Rombauts S. and **Inzé D.*** (2000). Characterization of two distinct DP-related genes from *Arabidopsis thaliana*. *FEBS Lett.* 486, 79-87.
346. Helleboid S., Hendriks T., Bauw G., **Inzé D.**, Vasseur J. and Hilbert J.-L.* (2000). Three major somatic embryogenesis related proteins in *Cichorium* identified as PR proteins. *J. Exp. Bot.* 51, 1189-1200.
347. Belles-Boix E., Babiyshuk E., Van Montagu M., **Inzé D.*** and Kushnir S. (2000). CEF, a Sec24 homologue of *Arabidopsis thaliana*, enhances the survival of yeast under oxidative stress conditions. *J. Exp. Bot.* 51, 1761-1762.
348. Vranová E., Langebartels C., Van Montagu M., **Inzé D.*** and Van Camp W. (2000). Oxidative stress, heat shock and drought differentially affect expression of a tobacco protein phosphatase 2C. *J. Exp. Bot.* 51, 1763-1764.
349. De Veylder L., Beeckman T., Van Montagu M. and **Inzé D.*** (2000). Increased leakiness of the tetracycline-inducible *Triple-Op* promoter in dividing cells renders it unsuitable for high inducible levels of a dominant negative *CDC2aAt* gene. *J. Exp. Bot.* 51, 1647-1653.
350. Stals H., Casteels P., Van Montagu M. and **Inzé D.*** (2000). Regulation of cyclin-dependent kinases in *Arabidopsis thaliana*. *Plant Mol. Biol.* 43, 583-593.
351. Joubès J., Chevalier C., Dudits D., Heberle-Bors E., **Inzé D.**, Umeda M. and Renaudin J.-P. (2000). CDK-related protein kinases in plants. *Plant Mol. Biol.* 43, 607-620.
352. Helleboid S., Chapman A., Hendriks T., **Inzé D.**, Vasseur J. and Hilbert J.-L. (2000). Cloning of β -1,3-glucanases expressed during *Cichorium* somatic embryogenesis. *Plant Mol. Biol.* 42, 377-386.

353. Mano J., Babiychuk E., Belles-Boix E., Hiratake J., Kimura A., **Inzé D.**, Kushnir S. and Asada K. (2000). A novel NADPH:diamide oxidoreductase activity in *Arabidopsis thaliana* P1 ζ -crystallin. *Eur. J. Biochem.* 267, 3661-3671.
354. Burssens S., Himanen K., van de Cotte B., Beeckman T., Van Montagu M., **Inzé D.*** and Verbruggen N. (2000). Expression of cell cycle regulatory genes and morphological alterations in response to salt stress in *Arabidopsis thaliana*. *Planta* 211, 632-640.
355. Burssens S., de Almeida Engler J., Beeckman T., Richard C., Shaul O., Ferreira P., Van Montagu M. and **Inzé D.*** (2000). Developmental expression of the *Arabidopsis thaliana* *CycA2;1* gene. *Planta* 211, 623-631.
356. Vereecke D., Burssens S., Simón-Mateo C., **Inzé D.**, Van Montagu M., Goethals K. and Jaziri M. (2000). The *Rhodococcus fascians*-plant interaction: morphological traits and biotechnological applications. *Planta* 210, 241-251.
357. Belbahri L., Chevalier L., Bensaddek L., Gillet F., Fliniaux M.A., Boerjan W., **Inzé D.**, Thomas D. and Thomasset B. (2000). Different expression of an S-adenosylmethionine synthetase gene in transgenic tobacco callus modifies alkaloid biosynthesis. *Biotechnol. Bioeng.* 69, 11-20.
358. Mano J., Yoon H.-J., Asada K., Babiychuk E., **Inzé D.** and Mikami B. (2000). Crystallization and preliminary X-ray crystallographic analysis of NADPH:azodicarbonyl/quinone oxidoreductase, a plant ζ -crystallin. *Biochim. Biophys. Acta* 1480, 374-376.
359. Landrieu I., Wieruszkeski J.-M., Odaert B., **Inzé D.**, Grzesiek S. and Lippens G. (2000). Sequence-specific ^1H , ^{13}C and ^{15}N chemical shift backbone NMR assignment and secondary structure of the *Arabidopsis thaliana* PIN1At protein. *J. Biomol. NMR* 17, 271-272.
360. Van Geldre E., De Pauw I., **Inzé D.**, Van Montagu M. and Van Den Eeckhout E. (2000). Cloning and molecular analysis of two new sesquiterpene cyclases from *Artemisia annua* L. *Plant Sci.* 158, 163-171.
361. Beeckman T.*, De Rycke R., Viane R. and **Inzé D.** (2000). Histological study of seed coat development in *Arabidopsis thaliana*. *J. Plant Res.* 113, 139-148.
362. Davey M.W., Van Montagu M., **Inzé D.**, Sanmartin M., Kanellis A., Smirnoff N., Benzie I.J.J., Strain J.J., Favell D. and Fletcher J. (2000). Plant L-ascorbic acid: chemistry, function, metabolism, bioavailability and effects of processing. *J. Sci. Food Agric.* 80, 825-860.
363. Van Breusegem F., Slooten L., Stassart J.-M., Botterman J., Moens T., Van Montagu M.* and **Inzé D.** (1999). Effects of overexpression of tobacco MnSOD in maize chloroplasts on foliar tolerance to cold and oxidative stress. *J. Exp. Bot.* 50, 71-78.
364. Iannelli M.A., Van Breusegem F., Van Montagu M., **Inzé D.** and Massacci A.* (1999). Tolerance to low temperature and paraquat-mediated oxidative stress in two maize genotypes. *J. Exp. Bot.* 50, 523-532.
365. Hemerly A.S., Ferreira P.C.G., Van Montagu M.* and **Inzé D.** (1999). Cell cycle control and plant morphogenesis: is there an essential link? *BioEssays* 21, 29-37.
366. Jacquard A., De Veylder L., Segers G., de Almeida Engler J., Bernier G., Van Montagu M.* and **Inzé D.** (1999). Expression of *CKS1At* expression in *Arabidopsis thaliana* indicates a role for the protein in both the mitotic and the endoreduplication cycle. *Planta* 207, 496-504.
367. Porceddu A., De Veylder L., Hayles J., Van Montagu M., **Inzé D.*** and Mironov V. (1999). Mutational analysis of two *Arabidopsis thaliana* cyclin-dependent kinases in fission yeast. *FEBS Lett.* 446, 182-188 [Corrigendum *FEBS Lett.* 454, 172].
368. Reichheld J.-P., Vernoux T., Lardon F., Van Montagu M. and **Inzé D.** (1999). Specific checkpoints regulate plant cell cycle progression in response to oxidative stress. *Plant J.* 17, 647-656.
369. Shaul O., Mironov, V., Van Montagu M. and **Inzé D.** (1999). Tobacco cultures transformed with cyclin-promoter-*gus* constructs reveal a discrepancy between *gus* mRNA levels and GUS protein activity upon leaving the stationary state. *Plant Sci.* 141, 67-71.

370. Mayer U., Herzog U., Berger F., **Inzé D.** and Jürgens G. (1999). Mutations in the *PILZ* group genes disrupt the microtubule cytoskeleton and uncouple cell cycle progression from cell division in *Arabidopsis* embryo and endosperm. *Eur. J. Cell Biol.* 78, 100-108.
371. Mironov, V., De Veylder L., Van Montagu M. and **Inzé D.*** (1999). Cyclin-dependent kinases and cell division in higher plants - the nexus. *Plant Cell* 11, 509-521.
372. de Almeida Engler J., De Vleeschauwer, V., Burssens S., Celenza J.L. Jr, **Inzé D.**, Van Montagu M., Engler G. and Gheysen G. (1999). Molecular markers and cell cycle inhibitors show the importance of cell cycle progression in nematode-induced galls and syncytia. *Plant Cell* 11, 793-807.
373. Savouré A., Thorin D., Davey M., Hua X.-J., Mauro S., Van Montagu M., **Inzé D.** and Verbruggen N. (1999). NaCl and CuSO₄ treatments trigger distinct oxidative defence mechanisms in *Nicotiana glumbaginifolia* L. *Plant Cell Environ.* 22, 387-396.
374. Landrieu I., Casteels P., Odaert B., De Veylder L., Portetelle D., Lippens G., Van Montagu M. and **Inzé D.** (1999). Recombinant production of the p10^{CKS1At} protein from *Arabidopsis thaliana* and ¹³C and ¹⁵N double-isotopic enrichment for NMR studies. *Protein Exp. Purif.* 16, 144-151.
375. Van Breusegem F., Slooten L., Stassart J.-M., Moens T., Botterman J., Van Montagu M. and **Inzé D.** (1999). Overproduction of *Arabidopsis thaliana* FeSOD confers oxidative stress tolerance to transgenic maize. *Plant Cell Physiol.* 40, 515-523.
376. De Veylder L., de Almeida Engler J., Burssens S., Manevski A., Lescure B., Van Montagu M., Engler G. and **Inzé D.*** (1999). A new D-type cyclin of *Arabidopsis thaliana* expressed during lateral root primordia formation. *Planta* 208, 453-462.
377. Shaul O., Hilgemann D.W., De-Almeida-Engler J., Van Montagu M., **Inzé D.** and Galili G. (1999). Cloning and characterization of a novel Mg²⁺/H⁺ exchanger. *EMBO J.* 18, 3973-3980.
378. Mittler R., Hallak Herr E., Orvar B.L., Van Camp W., Willekens H., **Inzé D.** and Ellis B.E. (1999). Transgenic tobacco plants with reduced capability to detoxify reactive oxygen intermediates are hyperresponsive to pathogen infection. *Proc. Natl. Acad. Sci. USA* 96, 14165-14170.
379. Ehsan H., Roef L., Witters E., Reichheld J.P., Van Bockstaele D., **Inzé D.** and Van Onckelen H. (1999). Indomethacin-induced G1/S phase arrest of the plant cell cycle. *FEBS Lett.* 458, 349-353.
380. Laureys F., Smets R., Lenjou M., Van Bockstaele D., **Inzé D.** and Van Onckelen H. (1999). A low content in zeatin type cytokinins is not restrictive for the occurrence of G(1)/S transition in tobacco BY-2 cells. *FEBS Lett.* 460, 123-128.
381. Bilgin M., Dedeoglu D., Omirulleh S., Peres A., Engler G., **Inzé D.**, Dudits D. and Feher A. (1999). Meristem, cell division and S phase-dependent activity of wheat histone H4 promoter in transgenic maize plants. *Plant Sci.* 143, 35-44.
382. Peres A., Nikovics K., de Almeida-Engler J., Engler G., **Inzé D.**, Fehér A. and Dudits D. (1999). An *Arabidopsis* cyclin promoter region is active in transgenic maize plants. *Cereal Res. Commun.* 27, 223-230.
383. Burssens S., Van Montagu M. and **Inzé D.** (1998). The cell cycle in *Arabidopsis*. *Plant Physiol. Biochem.* 36, 9-19.
384. May M.J., Vernoux T., Leaver C., Van Montagu M. and **Inzé D.** (1998). Glutathione homeostasis in plants: implications for environmental sensing and plant development. *J. Exp. Bot.* 49, 649-667.
385. Ehsan H., Reichheld J.-P., Roel L., Witters E., Lardon F., Van Bockstaele D., Van Montagu M., **Inzé D.** and Van Onckelen H. (1998). Effect of indomethacin on cell cycle dependent cyclic AMP fluxes in tobacco BY-2 cells. *FEBS Lett.* 422, 165-169.
386. Laureys F., Dewitte W., Witters E., Van Montagu M., **Inzé D.** and Van Onckelen H. (1998). Zeatin is indispensable for the G₂-M transition in tobacco BY-2 cells. *FEBS Lett.* 426, 29-32.
387. Chamnongpol S., Willekens H., Moeder W., Langebartels C., Sandermann Jr. H., Van Montagu M., **Inzé D.** and Van Camp W. (1998). Defense activation and enhanced pathogen tolerance induced by H₂O₂ in transgenic tobacco. *Proc. Natl. Acad. Sci. USA* 95, 5818-5823.

388. Sánchez-Fernández R., Ardiles-Díaz W., Van Montagu M., **Inzé D.** and May M.J. (1998). Cloning and expression analyses of *AtMRP4*, a novel *MRP*-like gene from *Arabidopsis thaliana*. *Mol. Gen. Genet.* 258, 655-662.
389. Van Breusegem F., Van Montagu M. and **Inzé D.** (1998). Engineering stress tolerance in maize. *Outlook Agricul.* 27, 115-124.
390. Kurepa J., Smalle J., Van Montagu M. and **Inzé D.** (1998). Oxidative stress tolerance and longevity in *Arabidopsis*: the late-flowering mutant *gigantea* is tolerant to paraquat. *Plant J.* 14, 759-764.
391. Van Camp W., Van Montagu M. and **Inzé D.** (1998). H₂O₂ and NO: redox signals in disease resistance. *Trends Plant Sci.* 3, 330-334.
392. Sánchez-Fernández R., Ardiles-Díaz W., Van Montagu M., **Inzé D.** and May M.J. (1998). Cloning of a novel *Arabidopsis thaliana* RGA-like gene, a putative member of the VHIID-domain transcription factor family. *J. Exp. Bot.* 49, 1609-1610.
393. Van Breusegem F., Kushnir S., Sooten L., Bauw G., Botterman J., Van Montagu M. and **Inzé D.** (1998). Processing of a chimeric protein in chloroplasts is different in transgenic maize and tobacco plants. *Plant Mol. Biol.* 38, 491-496.
394. Babiychuk E., Cottrill P.B., Storozhenko S., Fuangthong M., Chen Y., O'Farrell M.K., Van Montagu M., **Inzé D.** and Kushnir S. (1998). Higher plants possess two structurally different poly(ADP-ribose) polymerases. *Plant J.* 15, 635-645.
395. May M.J., Vernoux T., Sánchez-Fernández R., Van Montagu M. and **Inzé D.** (1998). Evidence for posttranscriptional activation of γ -glutamylcysteine synthetase during plant stress responses. *Proc. Natl. Acad. Sci. USA* 95, 12049-12054.
396. Schraudner M., Moeder W., Wiese C., Van Camp W., **Inzé D.**, Langebartels C. and Sandermann Jr. H. (1998). Ozone-induced oxidative burst in the ozone biomonitor plant, tobacco Bel W3. *Plant J.* 16, 235-245.
397. Storozhenko S., De Pauw P., Van Montagu M., **Inzé D.** and Kushnir S. (1998). The heat-shock element is a functional component of the *Arabidopsis APX1* gene promoter. *Plant Physiol.* 118, 1005-1014.
398. Kurepa J., Smalle J., Van Montagu M. and **Inzé D.** (1998). Polyamines and paraquat toxicity in *Arabidopsis thaliana*. *Plant Cell Physiol.* 39, 987-992.
399. Bueno P., Piqueras A., Kurepa J., Saviouré A., Verbruggen N., Van Montagu M. and **Inzé D.** (1998). Expression of antioxidant enzymes in response to abscisic acid and high osmoticum in tobacco BY-2 cell cultures. *Plant Sci.* 138, 27-34.
400. Kurepa J., Smalle J., Van Montagu M. and **Inzé D.** (1998). Effects of sucrose supply on growth and paraquat tolerance of the late-flowering *gi-3* mutant. *Plant Growth Regul.* 26, 91-96.
401. Vergauwe A., Van Geldre E., **Inzé D.**, Van Montagu M. and Van den Eeckhout E. (1998). Factors influencing *Agrobacterium tumefaciens*-mediated transformation of *Artemisia annua* L. *Plant Cell Rep.* 18, 105-110.
402. Amor Y., Babiychuk E., **Inzé D.** and Levine A. (1998). The involvement of poly(ADP-ribose) polymerase in the oxidative stress responses in plants. *FEBS Lett.* 440, 1-7.
403. Rohde A., Van Montagu M., **Inzé D.** and Boerjan W. (1997). Factors regulating the expression of cell cycle genes in individual buds of *Populus*. *Planta* 201, 43-52.
404. Sánchez-Fernández R., Fricker M., Corben L.B., White N.S., Sheard N., Leaver C.J., Van Montagu M., **Inzé D.** and May M.J. (1997). Cell proliferation and hair tip growth in the *Arabidopsis* root are under mechanistically different forms of redox control. *Proc. Natl. Acad. Sci. USA* 94, 2745-2750.
405. Kurepa J., Bueno P., Kampfenkel K., Van Montagu M., Van den Bulcke M. and **Inzé D.** (1997). Effects of iron deficiency on iron superoxide dismutase expression in *Nicotiana tabacum*. *Plant Physiol. Biochem.* 35, 467-474.

406. Kurepa J., Hérout D., Van Montagu M. and **Inzé D.** (1997). Differential expression of CuZn- and Fe-superoxide dismutase genes of tobacco during development, oxidative stress, and hormonal treatments. *Plant Cell Physiol.* 38, 463-470.
407. Van Camp W., **Inzé D.** and Van Montagu M. (1997). The regulation and function of tobacco superoxide dismutases. *Free Rad. Biol. Med.* 23, 515-520.
408. De Veylder L., Van Montagu M. and **Inzé D.** (1997). Herbicide safener-inducible gene expression in *Arabidopsis thaliana*. *Plant Cell Physiol.* 38, 568-577.
409. De Veylder L., Segers G., Glab N., Casteels P., Van Montagu M. and **Inzé D.** (1997). The *Arabidopsis* Cks1At protein binds to the cyclin-dependent kinases Cdc2aAt and Cdc2bAt. *FEBS Lett.* 412, 446-452.
410. Györgyey J., Németh K., Magyar Z., Kelemen Z., Alliotte T., **Inzé D.** and Dudits D. (1997). Expression of a novel-type small proline-rich protein gene of alfalfa is induced by 2,4-dichlorophenoxyacetic acid in dedifferentiated callus cells. *Plant Mol. Biol.* 34, 593-602.
411. Willekens H., Chamnongpol S., Davey M., Schraudner M., Langebartels C., Van Montagu M., **Inzé D.** and Van Camp W. (1997). Catalase is a sink for H₂O₂ and is indispensable for stress defense in C₃ plants. *EMBO J.* 16, 4806-4816.
412. Vansuyt G., Lopez F., **Inzé D.**, Briat J.F. and Fourcroy P. (1997). Iron triggers a rapid induction of ascorbate peroxidase gene expression in *Brassica napus*. *FEBS Lett.* 410, 195-200.
413. Babiychuk E., Fungthong M., Van Montagu M., **Inzé D.** and Kushnir S. (1997). Efficient gene tagging in *Arabidopsis thaliana* using a gene trap approach. *Proc. Natl. Acad. Sci. USA* 94, 12722-12727.
414. Stals H., Bauwens S., Traas J., Van Montagu M., Engler G. and **Inzé D.** (1997). Plant CDC2 is not only targeted to the pre-prophase band, but also co-localizes with the spindle, phragmoplast, and chromosomes. *FEBS Lett.* 418, 229-234.
415. Kurepa J., Van Montagu M. and **Inzé D.** (1997). Expression of *sodCp* and *sodB* genes in *Nicotiana tabacum*: effects of light and copper excess. *J. Exp. Bot.* 48, 2007-2014.
416. De Veylder L., Segers G., Glab N., Van Montagu M. and **Inzé D.** (1997). Identification of proteins interacting with the *Arabidopsis* Cdc2aAt protein. *J. Exp. Bot.* 48, 2113-2114.
417. Van der Eycken W., de Almeida Engler J., **Inzé D.**, Van Montagu M. and Gheysen G. (1996). A molecular study of root-knot nematode-induced feeding sites. *Plant J.* 9, 45-54.
418. Thomasset B., Ménard M., Boetti H., Denmat L.A., **Inzé D.** and Thomas D. (1996). β -Glucuronidase activity in transgenic and non-transgenic tobacco cells: specific elimination of plant inhibitors and minimization of endogenous GUS background. *Plant Sci.* 113, 209-219.
419. Shaul O., Van Montagu M. and **Inzé D.** (1996). Regulation of cell division in *Arabidopsis*. *Crit. Rev. Plant Sci.* 15, 97-112.
420. Shaul O., Mironov, V., Burssens S., Van Montagu M. and **Inzé D.** (1996). Two *Arabidopsis* cyclin promoters mediate distinctive transcriptional oscillation in synchronized tobacco BY-2 cells. *Proc. Natl. Acad. Sci. USA* 93, 4868-4872.
421. Storozhenko S., De Pauw P., Kushnir S., Van Montagu M. and **Inzé D.** (1996). Identification of an *Arabidopsis thaliana* cDNA encoding a HSP70-related protein belonging to the HSP110/SSE1 subfamily. *FEBS Lett.* 390, 113-118.
422. Redig P., Shaul O., **Inzé D.**, Van Montagu M. and Van Onckelen H. (1996). Levels of endogenous cytokinins, indole-3-acetic acid and abscisic acid during the cell cycle of synchronized tobacco BY-2 cells. *FEBS Lett.* 391, 175-180.
423. Chamnongpol S., Willekens H., Langebartels C., Van Montagu M., **Inzé D.** and Van Camp W. (1996). Transgenic tobacco with a reduced catalase activity develops necrotic lesions and induces pathogenesis-related expression under high light. *Plant J.* 10, 491-503.
424. Shaul O., Van Montagu M. and **Inzé D.** (1996). Cell cycle control in *Arabidopsis*. *Ann. Bot.* 78, 283-288.

425. Vergauwe A., Cammaert R., Vandenberghe D., Genetello C., **Inzé D.**, Van Montagu M. and Van den Eeckhout E. (1996). *Agrobacterium tumefaciens*-mediated transformation of *Artemisia annua* L. and regeneration of transgenic plants. *Plant Cell Rep.* 15, 929-933.
426. Tournaire C., Kushnir S., Bauw G., **Inzé D.**, Teysseidier de la Serve B. and Renaudin J.-P. (1996). A thiol protease and an anionic peroxidase are induced by lowering cytokinins during callus growth in *Petunia*. *Plant Physiol.* 111, 159-168.
427. Van Camp W., Hérouart D., Willekens H., Takahashi H., Saito K., Van Montagu M. and **Inzé D.** (1996). Tissue-specific activity of two manganese superoxide dismutase promoters in transgenic tobacco. *Plant Physiol.* 112, 525-535.
428. Gantet P., Masson F., Domergue O., Marquis-Mention M., Bauw G., **Inzé D.**, Rossignol M. and Teysseidier de la Serve B.T. (1996). Cloning of a cDNA encoding a developmentally regulated 22 kDa polypeptide from tobacco leaf plasma membrane. *Biochem. Mol. Biol. Int.* 40, 469-477.
429. Segers G., Gadisseur I., Bergounioux C., de Almeida Engler J., Jacqmard A., Van Montagu M. and **Inzé D.** (1996). The *Arabidopsis* cyclin-dependent kinase gene *cdc2bAt* is preferentially expressed during S and G₂ phases of the cell cycle. *Plant J.* 10, 601-612.
430. Baucher M., Chabbert B., Pilate G., Van Doorselaere J., Tollier M.-T., Petit-Conil M., Cornu D., Monties B., Van Montagu M., **Inzé D.**, Jouanin L. and Boerjan W. (1996). Red xylem and higher lignin extractability by down-regulating a cinnamyl alcohol dehydrogenase in poplar. *Plant Physiol.* 112, 1479-1490.
431. Niebel A., de Almeida Engler J., Hemerly A., Ferreira P., **Inzé D.**, Van Montagu M. and Gheysen G. (1996). Induction of *cdc2a* and *cyc1At* expression in *Arabidopsis thaliana* during early phases of nematode-induced feeding cell formation. *Plant J.* 10, 1037-1043.
432. Renaudin J.-P., Doonan J.H., Freeman D., Hashimoto J., Hirt H., **Inzé D.**, Jacobs T., Kouchi H., Rouzé P., Sauter M., Savouré A., Sorrell D.A., Sundaresan, V. and Murray J.A.H. (1996). Plant cyclins: a unified nomenclature for plant A-, B- and D-type cyclins based on sequence organization. *Plant Mol. Biol.* 32, 1003-1018.
433. Qin L.-X., Perennes C., Richard L., Bouvier-Durand M. Tréhin C., **Inzé D.** and Bergounioux C. (1996). G₂- and early-M-specific expression of the *NTCYC1* cyclin gene in *Nicotiana tabacum* cells. *Plant Mol. Biol.* 32, 1093-1101.
434. Vergauwe A., Van Geldre E., **Inzé D.**, Van Montagu M. and Van den Eeckhout E. (1996). The use of amoxicillin and ticarcillin in combination with a β -lactamase inhibitor as decontaminating agents in the *Agrobacterium tumefaciens*-mediated transformation of *Artemisia annua* L. *J. Biotechnol.* 52, 89-95.
435. Van Camp W., Capiou K., Van Montagu M., **Inzé D.** and Slooten L. (1996). Enhancement of oxidative stress tolerance in transgenic tobacco plants overexpressing Fe-superoxide dismutase in chloroplasts. *Plant Physiol.* 112, 1703-1714.
436. Vander Mijnsbrugge K., Van Montagu, M, **Inzé D.** and Boerjan W. (1996). Tissue-specific expression conferred by the S-adenosyl-L-methionine synthetase promoter of *Arabidopsis thaliana* in transgenic poplar. *Plant Cell Physiol.* 37, 1108-1115.
437. Willekens H., Chamnongpol S., Van Montagu M., **Inzé D.** and Van Camp W. (1996). Characterization of transgenic tobacco in which catalase activity has been modified through sense and antisense approaches. *Biotechnol. Biotechnol. Equip.* 10, 114-119.
438. de Carvalho Niebel F., Frendo P., **Inzé D.**, Cornelissen M. and Van Montagu M. (1995). Co-suppression of β -1,3-glucanase genes in *Nicotiana tabacum*. *Current Topics in Microbiology and Immunology.* 197, 91-103.
439. Van Doorselaere J., Baucher M., Feuillet C., Boudet A.M., Van Montagu M. and **Inzé D.** (1995). Isolation of cinnamyl alcohol dehydrogenase cDNAs from two important economic species: alfalfa and poplar. Demonstration of a high homology of the gene within angiosperms. *Plant Physiol. Biochem.* 33, 105-109.

440. Baucher M., Van Doorselaere J., Gielen J., Van Montagu M., **Inzé D.** and Boerjan W. (1995). Genomic nucleotide sequence of an *Arabidopsis thaliana* gene encoding a cinnamyl alcohol dehydrogenase. *Plant Physiol.* 107, 285-286.
441. Kampfenkel K., Van Montagu M. and **Inzé D.** (1995). Extraction and determination of ascorbate and dehydroascorbate from plant tissue. *Anal. Biochem.* 225, 165-167.
442. Van Breusegem F., Villarroel R., Van Montagu M. and **Inzé D.** (1995). Ascorbate peroxidase cDNA from maize. *Plant Physiol.* 107, 649-650.
443. Kampfenkel K., Van Montagu M. and **Inzé D.** (1995). Effects of iron excess on *Nicotiana plumbaginifolia* plants. Implications to oxidative stress. *Plant Physiol.* 107, 725-735.
444. Alonso E., de Carvalho Niebel F., Obregón P., Gheysen G., **Inzé D.**, Van Montagu M. and Castresana C. (1995). Differential *in vitro* DNA binding activity to a promoter element of the *gn1* β -1,3-glucanase gene in hypersensitively reacting tobacco plants. *Plant J.* 7, 309-320.
445. Slooten L., Capiou K., Van Camp W., Van Montagu M., Sybesma C. and **Inzé D.** (1995). Factors affecting the enhancement of oxidative stress tolerance in transgenic tobacco overexpressing manganese superoxide dismutase in the chloroplasts. *Plant Physiol.* 107, 737-750.
446. Lepiniec L., Babiychuk E., Kushnir S., Van Montagu M. and **Inzé D.** (1995). Characterization of an *Arabidopsis thaliana* cDNA homologue to animal poly(ADP-ribose) polymerase. *FEBS Lett.* 364, 103-108.
447. Niebel A., Heungens K., Barthels N., **Inzé D.**, Van Montagu M. and Gheysen G. (1995). Characterization of a pathogen-induced potato catalase and its systemic expression upon nematode and bacterial infection. *Mol. Plant-Microbe Interact.* 8, 371-378.
448. Hemerly A., de Almeida Engler J., Bergounioux C., Van Montagu M., Engler G., **Inzé D.** and Ferreira P. (1995). Dominant negative mutants of the Cdc2 kinase uncouple cell division from iterative plant development. *EMBO J.* 14, 3925-3936.
449. Mironov, V.N., Van Montagu M. and **Inzé D.** (1995). High throughput RNase protection assay. *Nucleic Acids Res.* 23, 3359-3360.
450. Boerjan W., Cervera M.-T., Delarue M., Beeckman T., Dewitte W., Bellini C., Caboche M., Van Onckelen H., Van Montagu M. and **Inzé D.** (1995). *Superroot*, a recessive mutation in *Arabidopsis*, confers auxin overproduction. *Plant Cell* 7, 1405-1419.
451. Willekens H., **Inzé D.**, Van Montagu M. and Van Camp W. (1995). Catalases in plants. *Mol. Breed.* 1, 207-228.
452. Babiychuk E., Kushnir S., Belles-Boix E., Van Montagu M. and **Inzé D.** (1995). *Arabidopsis thaliana* NADPH oxidoreductase homologs confer tolerance of yeasts toward the thiol-oxidizing drug diamide. *J. Biol. Chem.* 270, 26224-26231.
453. Kushnir S., Babiychuk E., Kampfenkel K., Belles-Boix E., Van Montagu M. and **Inzé D.** (1995). Characterization of *Arabidopsis thaliana* cDNAs that render yeasts tolerant toward the thiol-oxidizing drug diamide. *Proc. Natl. Acad. Sci. USA* 92, 10580-10584.
454. Kampfenkel K., Kushnir S., Babiychuk E., **Inzé D.** and Van Montagu M. (1995). Molecular characterization of a putative *Arabidopsis thaliana* copper transporter and its yeast homologue. *J. Biol. Chem.* 270, 28479-28486.
455. Van Doorselaere J., Baucher M., Chognot E., Chabbert B., Tollier M.-T., Petit-Conil M., Leplé J.-C., Pilate G., Cornu D., Monties B., Van Montagu M., **Inzé D.**, Boerjan W. and Jouanin L. (1995). A novel lignin in poplar trees with a reduced caffeic acid/5-hydroxyferulic acid O-methyltransferase activity. *Plant J.* 8, 855-864.
456. Kampfenkel K., Möhlmann T., Batz O., Van Montagu M., **Inzé D.** and Neuhaus H.E. (1995). Molecular characterization of an *Arabidopsis thaliana* cDNA encoding a novel putative adenylate translocator of higher plants. *FEBS Lett.* 374, 351-355.

457. Van Camp W., Willekens H., Bowler C., Van Montagu M., **Inzé D.**, Reupold-Popp P., Sandermann H. Jr, and Langebartels C. (1994). Elevated levels of superoxide dismutase protect transgenic plants against ozone damage. *Nat. Biotechnol.* 12, 165-168.
458. Hérouart D., Van Montagu M. and **Inzé D.** (1994). Developmental and environmental regulation of the *Nicotiana plumbaginifolia* cytosolic Cu/Zn-superoxide dismutase promoter in transgenic tobacco. *Plant Physiol.* 104, 873-880.
459. Storti E., Bogani P., Bettini P., Bittini P., Guardiola M.L., Pellegrini M.G., **Inzé D.** and Buiatti M. (1994). Modification of competence for in vitro response to *Fusarium oxysporum* in tomato cells. II. Effect of the integration of *Agrobacterium tumefaciens* genes for auxin and cytokinin synthesis. *Theor. Appl. Genet.* 88, 89-96.
460. Babiychuk E., Kushnir S., Van Montagu M. and **Inzé D.** (1994). The *Arabidopsis thaliana* apurinic endonuclease Arp reduces human transcription factors Fos and Jun. *Proc. Natl. Acad. Sci. USA* 91, 3299-3303.
461. Bowler C., Van Camp W., Van Montagu M. and **Inzé D.** (1994). Superoxide dismutase in plants. *Crit. Rev. Plant Sci.* 13, 199-218.
462. Willekens H., Villarroel R., Van Montagu M., **Inzé D.** and Van Camp W. (1994). Molecular identification of catalases from *Nicotiana plumbaginifolia* (L.). *FEBS Lett.* 352, 79-83.
463. Boerjan W., Bauw G., Van Montagu M. and **Inzé D.** (1994). Distinct phenotypes generated by overexpression and suppression of S-adenosyl-L-methionine synthetase reveal developmental patterns of gene silencing in tobacco. *Plant Cell* 6, 1401-1414.
464. Willekens H., Langebartels C., Tiré C., Van Montagu M., **Inzé D.** and Van Camp W. (1994). Differential expression of catalase genes in *Nicotiana plumbaginifolia* (L.). *Proc. Natl. Acad. Sci. USA* 91, 10450-10454.
465. Willekens H., Van Camp W., Van Montagu M., **Inzé D.**, Langebartels C. and Sandermann Jr. H. (1994). Ozone, sulfur dioxide, and ultraviolet B have similar effects on mRNA accumulation of antioxidant genes in *Nicotiana plumbaginifolia* (L.). *Plant Physiol.* 106, 1007-1014.
466. Ferreira P., Hemerly A., de Almeida Engler J., Bergounioux C., Burssens S., Van Montagu M., Engler G. and **Inzé D.** (1994). Three discrete classes of Arabidopsis cyclins are expressed during different intervals of the cell cycle. *Proc. Natl. Acad. Sci. USA* 91, 11313-11317.
467. Tiré C., De Rycke R., De Loose M., **Inzé D.**, Van Montagu M. and Engler G. (1994). Extensin gene expression is induced by mechanical stimuli leading to local cell wall strengthening in *Nicotiana plumbaginifolia*. *Planta* 195, 175-181.
468. Ferreira P.C.G., Hemerly A.S., de Almeida Engler J., Van Montagu M., Engler G. and **Inzé D.** (1994). Developmental expression of the Arabidopsis cyclin gene *cyc1At*. *Plant Cell* 6, 1763-1774.
469. Ferreira P., Hemerly A., Van Montagu M. and **Inzé D.** (1994). Control of cell proliferation during plant development. *Plant Mol. Biol.* 26, 1289-1303.
470. Hérouart D., Van Montagu M. and **Inzé D.** (1993). Redox-activated expression of the cytosolic/zinc superoxide dismutase gene in *Nicotiana*. *Proc. Natl. Acad. Sci. USA* 90, 3108-3112.
471. Terryn N., Van Montagu M. and **Inzé D.** (1993). GTP-binding proteins in plants. *Plant Mol. Biol.* 22, 143-152.
472. Ferreira C.G., Hemerly A.S., Van Montagu M. and **Inzé D.** (1993). A protein phosphatase 1 from *Arabidopsis thaliana* restores temperature sensitivity of a *Schizosaccharomyces pombe* *cdc25^{ts}/wee1* double mutant. *Plant J.* 4, 81-87.
473. Van Doorselaere J., Gielen J., Van Montagu M. and **Inzé D.** (1993). A cDNA encoding S-adenosyl-L-methionine synthetase from poplar. *Plant Physiol.* 102, 1365-1366.
474. Van Doorselaere J., Dumas B., Baucher M., Fritig B., Legrand M., Van Montagu M. and **Inzé D.** (1993). One-step purification and characterization of a lignin-specific O-methyltransferase from poplar. *Gene* 133, 213-217.

475. Hemerly A.S., Ferreira P., de Almeida Engler J., Van Montagu M., Engler G. and **Inzé D.** (1993). *cdc2a* expression in Arabidopsis is linked with competence for cell division. *Plant Cell* 5, 1711-1723.
476. Terryn N., Arias M.B., Engler G., Tiré C., Villarroel R., Van Montagu M. and **Inzé D.** (1993). *rha1*, a gene encoding a small GTP binding protein from Arabidopsis, is expressed primarily in developing guard cells. *Plant Cell* 5, 1761-1769.
477. McKersie B.D., Chen Y., de Beus M., Bowley S.R., Bowler C., **Inzé D.**, D'Halluin K. and Botterman J. (1993). Superoxide dismutase enhances tolerance of freezing stress in transgenic alfalfa (*Medicago sativa* L.). *Plant Physiol.* 103, 1155-1163.
478. Van Gysel A., Van Montagu M. and **Inzé D.** (1993). A negatively light-regulated gene from *Arabidopsis thaliana* encodes a protein showing high similarity to blue copper-binding proteins. *Gene* 136, 79-85.
479. Hérout D., Bowler C., Willekens H., Van Camp W., Slooten L., Van Montagu M. and **Inzé D.** (1993). Genetic engineering of oxidative stress resistance in higher plants. *Phil. Trans. R. Soc. Lond. B* 342, 235-240.
480. **Inzé D.**, Ferreira P., Hemerly A., de Almeida Engler J., Bergounioux C., Segers G., De Veylder L., Engler G. and Van Montagu M. (1993). Cell cycle control in *Arabidopsis thaliana*. *Acta bot. Gallica* 140, 583-590.
481. Hemerly A., Ferreira P., Engler J., Engler G., **Inzé D.** and Van Montagu M. (1993). The control of cell cycle in *Arabidopsis* plant cell cultures. *J. Plant Res.* Special issue 3, 51-56.
482. Terryn N., Anuntalabhochai S., Van Montagu M. and **Inzé D.** (1992). Analysis of a *Nicotiana plumbaginifolia* cDNA encoding a novel small GTP-binding protein. *FEBS Lett.* 299, 287-290.
483. Dumas B., Van Doorselaere J., Gielen J., Legrand M., Fritig B., Van Montagu M. and **Inzé D.** (1992). Nucleotide sequence of a complementary DNA encoding O-methyltransferase from poplar. *Plant Physiol.* 98, 796-797.
484. Bäumllein H., Nagy I., Villarroel R., **Inzé D.** and Wobus U. (1992). Cis-analysis of a seed protein gene promoter: the conservative RY repeat CATGCATG within the legumin box is essential for tissue-specific expression of a legumin gene. *Plant J.* 2, 233-239.
485. Hemerly A., Bergounioux C., Van Montagu M., **Inzé D.** and Ferreira P. (1992). Genes regulating the plant cell cycle: isolation of a mitotic-like cyclin from *Arabidopsis thaliana*. *Proc. Natl. Acad. Sci. USA* 89, 3295-3299.
486. de Carvalho F., Gheysen G., Kushnir S., Van Montagu M., **Inzé D.** and Castresana C. (1992). Suppression of β -1,3-glucanase transgene expression in homozygous plants. *EMBO J.* 11, 2595-2602.
487. Bowler C., Van Montagu M. and **Inzé D.** (1992). Superoxide dismutase and stress tolerance. *Annu. Rev. Plant Physiol. Plant Mol. Biol.* 43, 83-116.
488. Boerjan W., Genetello C., Van Montagu M. and **Inzé D.** (1992). A new bioassay for auxins and cytokinins. *Plant Physiol.* 99, 1090-1098.
489. Bergounioux C., Perennes C., Hemerly A.S., Qin L.X., Sarda C., **Inzé D.** and Gadal P. (1992). A *cdc* gene of *Petunia hybrida* is differentially expressed in leaves, protoplasts and during various cell cycle phases. *Plant Mol. Biol.* 20, 1121-1130.
490. **Inzé D.**, Ferreira P., Hemerly A. and Van Montagu M. (1992). Control of cell division in plants. *Biochem. Soc. Trans.* 20, 80-84.
491. Bäumllein H., Boerjan W., Nagy I., Panitz R., **Inzé D.** and Wobus U. (1991). Upstream sequences regulating legumin gene expression in heterologous transgenic plants. *Mol. Gen. Genet.* 225, 121-128.
492. Bäumllein H., Boerjan W., Nagy I., Bassüner R., Van Montagu M., **Inzé D.** and Wobus U. (1991). A novel seed protein gene from *Vicia faba* is developmentally regulated in transgenic tobacco and *Arabidopsis* plants. *Mol. Gen. Genet.* 225, 459-467.

493. Peleman J., Cottyn B., Van Camp W., Van Montagu M. and **Inzé D.** (1991). Transient occurrence of extrachromosomal DNA of an *Arabidopsis thaliana* transposon-like element, *Tat1*. *Proc. Natl. Acad. Sci. USA* 88, 3618-3622.
494. De Loose M., Gheysen G., Tiré C., Gielen J., Villarroel R., Genetello C., Van Montagu M., Depicker A. and **Inzé D.** (1991). The extensin signal peptide allows secretion of a heterologous protein from protoplasts. *Gene* 99, 95-100.
495. Ferreira P.C.G., Hemerly A.S., Villarroel R., Van Montagu M. and **Inzé D.** (1991). The *Arabidopsis* functional homolog of the p34^{cdc2} protein kinase. *Plant Cell* 3, 531-540.
496. Bowler C., Slooten L., Vandenbranden S., De Rycke R., Botterman J., Sybesma C., Van Montagu M. and **Inzé D.** (1991). Manganese superoxide dismutase can reduce cellular damage mediated by oxygen radicals in transgenic plants. *EMBO J.* 10, 1723-1732.
497. Tsang E.W.T., Bowler C., Hérouart D., Van Camp W., Villarroel R., Genetello C., Van Montagu M. and **Inzé D.** (1991). Differential regulation of superoxide dismutases in plants exposed to environmental stress. *Plant Cell* 3, 783-792.
498. Van Doorselaere J., Villarroel R., Van Montagu M. and **Inzé D.** (1991). Nucleotide sequence of a cDNA encoding malic enzyme from poplar. *Plant Physiol.* 96, 1385-1386.
499. Anuntalabhochai S., Terryn N., Van Montagu M. and **Inzé D.** (1991). Molecular characterization of an *Arabidopsis thaliana* cDNA encoding a small GTP-binding protein, Rha1. *Plant J.* 1, 167-174.
500. Mateeva Z.E. and **Inzé D.** (1991). A cDNA sequence probably encoding BCBP in *Nicotiana plumbaginifolia*. *Dokl. Bolg. Akad. Nauk.* 44, 79-82.
501. Bowler C., Van Kaer L., Van Camp W., Van Montagu M., **Inzé D.** and Dhaese P. (1990). Characterization of the *Bacillus stearothermophilus* manganese superoxide dismutase gene and its ability to complement copper/zinc superoxide dismutase deficiency in *Saccharomyces cerevisiae*. *J. Bacteriol.* 172, 1539-1546.
502. de Oliveira D.E., Seurinck J., **Inzé D.**, Van Montagu M. and Botterman J. (1990). Differential expression of five *Arabidopsis* genes encoding glycine-rich proteins. *Plant Cell* 2, 427-436.
503. Gheysen G., **Inzé D.**, Soetaert P., Van Montagu M. and Castresana C. (1990). Sequence of a *Nicotiana plumbaginifolia* $\beta(1,3)$ -glucanase gene encoding a vacuolar isoform. *Nucleic Acids Res.* 18, 6685.
504. Castresana C., de Carvalho F., Gheysen G., Habets M., **Inzé D.** and Van Montagu M. (1990). Tissue-specific and pathogen-induced regulation of a *Nicotiana plumbaginifolia* β -1,3-glucanase gene. *Plant Cell* 2, 1131-1143.
505. Van Camp W., Bowler C., Villarroel R., Tsang E.W.T., Van Montagu M. and **Inzé D.** (1990). Characterization of iron superoxide dismutase cDNAs from plants obtained by genetic complementation in *Escherichia coli*. *Proc. Natl. Acad. Sci. USA* 87, 9903-9907.
506. Peleman J., Boerjan W., Engler G., Seurinck J., Botterman J., Alliotte T., Van Montagu M. and **Inzé D.** (1989). Strong cellular preference in the expression of a housekeeping gene of *Arabidopsis thaliana* encoding S-adenosylmethionine synthetase. *Plant Cell* 1, 81-93.
507. Bowler C., Alliotte T., De Loose M., Van Montagu M. and **Inzé D.** (1989). The induction of manganese superoxide dismutase in response to stress in *Nicotiana plumbaginifolia*. *EMBO J.* 8, 31-38.
508. Alliotte T., Tiré C., Engler G., Peleman J., Caplan A., Van Montagu M. and **Inzé D.** (1989). An auxin-regulated gene of *Arabidopsis thaliana* encodes a DNA-binding protein. *Plant Physiol.* 89, 743-752.
509. Bowler C., Alliotte T., Van den Bulcke M., Bauw G., Vandekerckhove J., Van Montagu M. and **Inzé D.** (1989). A plant manganese superoxide dismutase is efficiently imported and correctly processed by yeast mitochondria. *Proc. Natl. Acad. Sci. USA* 86, 3237-3241.
510. Saito K., Murakoshi I., **Inzé D.** and Van Montagu M. (1989). Biotransformation of nicotine alkaloids by tobacco shooty teratomas induced by a Ti plasmid mutant. *Plant Cell Reports* 7, 607-610.

511. Peleman J., Saito K., Cottyn B., Engler G., Seurinck J., Van Montagu M. and **Inzé D.** (1989). Structure and expression analyses of the S-adenosylmethionine synthetase gene family in *Arabidopsis thaliana*. *Gene* 84, 359-369.
512. Simoens C.R., Peleman J., Valvekens D., Van Montagu M. and **Inzé D.** (1988). Isolation of genes expressed in specific tissues of *Arabidopsis thaliana* by differential screening of a genomic library. *Gene* 67, 1-11.
513. Simoens C.R., Gielen J., Van Montagu M. and **Inzé D.** (1988). Characterization of highly repetitive sequences of *Arabidopsis thaliana*. *Nucleic Acids Res.* 16, 6753-6766.
514. Alliotte T., Zhu L.H., Van Montagu M. and **Inzé D.** (1988). Plant expression vectors with the origin of replication of the W-type plasmid Sa. *Plasmid* 19, 251-254.
515. De Loose M., Alliotte T., Gheysen G., Genetello C., Gielen J., Soetaert P., Van Montagu M. and **Inzé D.** (1988). Primary structure of a hormonally regulated β -glucanase of *Nicotiana plumbaginifolia*. *Gene* 70, 13-23.
516. Rüdelsheim P., Beinsberger S., **Inzé D.**, Christiansen J., Wyndaele R., De Greef J. and Van Onckelen H. (1988). T-DNA controlled and plant specific metabolism in *Agrobacterium tumefaciens* transformed tobacco and soybean tissues. *Bull. Soc. Bot. Fr. Actual. Bot.* 135, 63-71.
517. Müller A.J., Mendel R.R., Schiemann J., Simoens C. and **Inzé D.** (1987). High meiotic stability of a foreign gene introduced into tobacco by *Agrobacterium*-mediated transformation. *Mol. Gen. Genet.* 207, 171-175.
518. Bauw G., De Loose M., **Inzé D.**, Van Montagu M. and Vandekerckhove J. (1987). Alterations in the phenotype of plant cells studied by NH₂-terminal amino acid sequence analysis of proteins electroblotted from two-dimensional gel-separated total extracts. *Proc. Natl. Acad. Sci. USA* 84, 4806-4810.
519. **Inzé D.**, Follin A., Velten J., Velten L., Prinsen E., Rüdelsheim P., Van Onckelen H., Schell J. and Van Montagu M. (1987). The *Pseudomonas savastanoi* tryptophan-2-mono-oxygenase is biologically active in *Nicotiana tabacum*. *Planta* 172, 555-562.
520. Rüdelsheim P., Prinsen E., Van Lijsebettens M., **Inzé D.**, Van Montagu M., De Greef J. and Van Onckelen H. (1987). The effect of mutations in the T-DNA encoded auxin pathway on the endogenous phytohormone content in cloned *Nicotiana tabacum* crown gall tissues. *Plant Cell Physiol.* 28, 475-484.
521. Nacmias B., Ugolini S., Ricci M.D., Pellegrini M.G., Bogani P., Bettini P., **Inzé D.** and Buiatti M. (1987). Tumor formation and morphogenesis on different *Nicotiana* sp and hybrids induced by *Agrobacterium tumefaciens* T-DNA mutants. *Dev. Genet.* 8, 61-71.
522. Van Lijsebettens M., **Inzé D.**, Schell J. and Van Montagu M. (1986). Transformed cell clones as a tool to study T-DNA integration mediated by *Agrobacterium tumefaciens*. *J. Mol. Biol.* 188, 129-145.
523. Van Onckelen H., Prinsen E., **Inzé D.**, Rüdelsheim P., Van Lijsebettens M., Follin A., Schell J., Van Montagu M. and De Greef J. (1986). *Agrobacterium* T-DNA gene 1 codes for tryptophan-2-monooxygenase activity in tobacco crown gall cells. *FEBS Lett.* 198, 357-360.
524. Simoens C., Alliotte T., Mendel R., Müller A., Schiemann J., Van Lijsebettens M., Schell J., Van Montagu M. and **Inzé D.** (1986). A binary vector for transferring genomic libraries to plants. *Nucleic Acids Res.* 14, 8073-8090.
525. Van Onckelen H., Rüdelsheim P., **Inzé D.**, Follin A., Messens E., Horemans S., Schell J., Van Montagu M. and De Greef J. (1985). Tobacco plants transformed with the *Agrobacterium* T-DNA gene 1 contain high amounts of indole-3-acetamide. *FEBS Lett.* 181, 373-376.
526. Follin A., **Inzé D.**, Budar F., Genetello C., Van Montagu M. and Schell J. (1985). Genetic evidence that the tryptophan 2-mono-oxygenase gene of *Pseudomonas savastanoi* is functionally equivalent to one of the T-DNA genes involved in plant tumour formation by *Agrobacterium tumefaciens*. *Mol. Gen. Genet.* 201, 178-185.

527. **Inzé D.**, Follin A., Van Lijsebettens M., Simoens C., Genetello C., Van Montagu M. and Schell J. (1984). Genetic analysis of the individual T-DNA genes of *Agrobacterium tumefaciens*; further evidence that two genes are involved in indole-3-acetic acid synthesis. *Mol. Gen. Genet.* 194, 265-274.
528. Joos H., **Inzé D.**, Caplan A., Sormann M., Van Montagu M. and Schell J. (1983). Genetic analysis of T-DNA transcripts in nopaline crown galls. *Cell* 32, 1057-1067.
529. Caplan A., Herrera-Estrella L., **Inzé D.**, Van Haute E., Van Montagu M., Schell J. and Zambryski P. (1983). Introduction of genetic material into plant cells. *Science* 222, 815-821.
530. Depicker A., De Block M., **Inzé D.**, Van Montagu M. and Schell J. (1980). IS-like element IS8 in RP4 plasmid and its involvement in cointegration. *Gene* 10, 329-338.
531. Holsters M., Silva B., Van Vliet F., Genetello C., De Block M., Dhaese P., Depicker A., **Inzé D.**, Engler G., Villarroel R., Van Montagu M. and Schell J. (1980). The functional organization of the nopaline *A. tumefaciens* plasmid pTiC58. *Plasmid* 3, 212-230.

II. Articles in international journals with peer review not in the Web of Science (A2)

1. Li J.[°], Mintgen M.A.C.[°], D'Haeyer S., Helfer A., Nelissen H., **Inzé D.**^{**} and Dhondt S.[#] (2023). PhenoWell® – A novel screening system for soil-grown plants. *Plant-Environ. Interact.* 4, 55-69.
2. Impens L., Jacobs T.B., Nelissen H., **Inzé D.** and Pauwels L.* (2022). Mini-review: Transgenerational CRISPR/Cas9 gene editing in plants. *Frontiers in Genome Editing* 4, 825042.
3. Coppens F., Wuyts N., **Inzé D.*** and Dhondt S. (2017). Unlocking the potential of plant phenotyping data through integration and data-driven approaches. *Curr. Opin Syst. Biol.* 4, 58-63.
4. Vanhaeren H., Gonzalez N. and **Inzé D.*** (2015). A journey through a leaf: phenomics analysis of leaf growth in *Arabidopsis thaliana*. *Arabidopsis Book* 13, e0181.
5. Szakonyi D.*, Van Landeghem S.*, Baerenfaller K., Baeyens L., Blomme J., Casanova-Sáez R., De Bodt S., Esteve-Bruna D., Fiorani F., Gonzalez N., Grønlund J., Immink R.G.H., Jover-Gil S., Kuwabara A., Muñoz-Nortes T., van Dijk A.D.J., Wilson-Sánchez D., Buchanan-Wollaston V., Angenent G.C., Van de Peer Y., **Inzé D.**, Micol J.L., Gruitsem W., Walsh S.* and Hilson P.* (2015). The KnownLeaf literature curation system captures knowledge about *Arabidopsis* leaf growth and development and facilitates integrated data mining. *Curr. Plant Biol.* 2, 1-11.
6. Verelst W.[°], Skiryicz A.[°] and **Inzé D.*** (2010). Abscisic acid, ethylene and gibberellic acid act at different developmental stages to instruct the adaptation of young leaves to stress. *Plant Signal. Behav.* 5, 473-475.
7. Boruc J. **Inzé D.** and Russinova E.* (2010). A high-throughput bimolecular fluorescence complementation protein-protein interaction screen identifies functional Arabidopsis CDKA/B-CYCD4/5 complexes. *Plant Signal. Behav.* 5, 1276-1281.
8. Grunewald W., Parizot B., **Inzé D.**, Gheysen G. and Beeckman T.* (2007). Developmental biology of roots: one common pathway for all angiosperms? *Int. J. Plant Dev. Biol.* 1, 212-225.
9. Salmenkallio-Marttila M., Aura A.-M., De Veylder L., **Inzé D.** and Oksman-Caldentey K.-M. (2002). Characterization of microstructure and cell wall components of *Arabidopsis thaliana* overexpressing cyclin-dependent kinase inhibitor 2. *Phytochem. Rev.* 1, 93-99.
10. Belbahri L., Villarroel R., **Inzé D.**, Thomas D. and Thomasset B. (1998). Nucleotide sequence of a putative protein farnesyltransferase subunit A (Accession No. AF064542) (PGR98-134). *Plant Physiol.* 118, 329.
11. **Inzé D.** and Van Montagu M. (1995). Oxidative stress in plants. *Curr. Opin. Biotechnol.* 6, 153-158.
12. Zilinskas B.A., Asada K., Galun E., **Inzé D.** and Tanaka K. (1994). Genes encoding superoxide dismutases. *Plant Mol. Biol. Reporter (CPGN Supp.)* 12, S73-S74.
13. Jaeck E., Dumas B., Geoffroy P., Favet N., **Inzé D.**, Van Montagu M., Fritig B. and Legrand M. (1992). Regulation of enzymes involved in lignin biosynthesis: induction of O-methyltransferase

mRNAs during the hypersensitive reaction of tobacco to tobacco mosaic virus. *Mol. Plant-Microbe Interact.* 5, 294-300.

14. Tiemann K., **Inzé D.**, Van Montagu M. and Barz W. (1991). Pterocarpan phytoalexin biosynthesis in elicitor-challenged chickpea (*Cicer arietinum* L.) cell cultures: Purification, characterization and cDNA cloning of NADPH:isoflavone oxidoreductase. *Eur. J. Biochem.* 200, 751-757.

III. Articles in scientific journals without peer review (A4)

1. **Inzé D.** (2009). The quest for mechanisms regulating plant growth. *New Biotechnol.* 25, S306.
2. Himanen K., Boccardi T., De Groeve S., Neyt P., **Inzé, D.** and Van Lijsebettens M.* (2008). Growth control in plants by chromatin modifying complexes activating transcription. XVI Congress of the Federation of European Societies of Plant Biology (FESPB) 17-22 August 2008 (Tampere, Finland). *Physiol. Plant.* 133, S01-01.
3. Anami E.S., Mguu J.A., Hanley-Bowdoin L., Rasha A.O., Nelissen H., **Inzé D.**, Van Lijsebettens M. and Machuka J. (2008). Progress in transformation and regeneration of tropical inbred maize lines in Kenya. *Maize Genet. Coop. Newslett.* 82, 22-23.
4. Bruno L., Phung T.T., **Inzé D.**, Van Lijsebettens M. and Nelissen H. (2004). Functional analysis of Elongator genes in Arabidopsis. *Arch. Physiol. Biochem.* 112.
5. Van Breusegem F., Slooten L., Van Montagu M. and **Inzé D.** (1999). Engineering stress tolerance in maize. *Med. Fac. Landbouww. Univ. Gent* 64/5b, 367-373.
6. De Veylder L., Van Montagu M. and **Inzé D.** (1999). Identification of novel cell cycle genes by the use of the two-hybrid system. *Med. Fac. Landbouww. Univ. Gent* 64/5b, 363-365.
7. Karimi M., Porceddu A., Mironov, V., Van Montagu M., **Inzé D.** and Gheysen G. (1999). ARM1: applications for engineered resistance to plant-parasitic nematodes. *Med. Fac. Landbouww. Univ. Gent* 64/5b, 439-442.
8. Dhooge S., Beeckman T., Redant C., Viane R. and **Inzé D.** (1999). The initiation of lateral roots in *Arabidopsis thaliana* (L.) Heyhn. *Biol. Jb. Dodonaea* 66, 157-169.
9. Willekens H., Chamnongpol S., Van Montagu M., **Inzé D.** and Van Camp W. (1995). Role of H₂O₂ and H₂O₂-scavenging enzymes in environmental stress. *AgBiotech News Inform.* 7, 189N-195N.
10. De Veylder L., Davey M., **Inzé D.** and Van Montagu M. (1995). Expression of mutant *CDC2aAt* genes in plants with the use of chemical inducible promoters. *Med. Fac. Landbouwwet. Univ. Gent* 60/4a, 1701.
11. Van Doorselaere J., Van der Mijnsbrugge K., Baucher M., Leplé J.-C., Rohde A., Van Montagu M. and **Inzé D.** (1993). Genetic engineering in forest trees. *Agro-Food-Industry Hi-Tech* 4 (6), 15-19.
12. Van der Eycken W., Niebel A., **Inzé D.**, Van Montagu M. and Gheysen G. (1992). Molecular study of root knot induction by the nematode *Meloidogyne incognita*. *Med. Fac. Landbouww. Univ. Gent* 57/3a, 895-901.
13. Van der Eycken W., Niebel A., **Inzé D.**, Van Montagu M. and Gheysen G. (1992). A molecular approach to fight root knot nematodes. *Med. Fac. Landbouww. Univ. Gent* 57/4a, 1487-1492.
14. Slooten L., Capiou K., Vandenbranden S., Sybesma C., Van Montagu M. and **Inzé D.** (1992). Improvement of the resistance of higher plants against oxidative stress. *Med. Fac. Landbouww. Univ. Gent* 57/4a, 1477-1485.
15. de la Riva G., Van Montagu M., **Inzé D.** and Dhaese P. (1991). High-efficiency transformation of *Agrobacterium tumefaciens* with plasmid DNA by electroporation. *Biotechnol. Applic.* 8, 345-351.
16. Beinsberger S.E., Rüdelsheim P., **Inzé D.**, Van Lijsebettens M., De Greef J. and Van Onckelen H.A. (1988). Full expression of chimeric T-DNA gene 4 constructions in tobacco tissues. *Arch. Int. Physiol. Biochim.* 96, PP2.

17. Prinsen E., Van Onckelen H., Rüdelsheim P., **Inzé D.**, Follin A., Van Montagu M. and De Greef J. (1987). T-DNA gene 1 and *Pseudomonas* tryptophan-2-monooxygenase (*iaaM*) are functionally equivalent. *Arch. Int. Physiol. Biochim.* 95, PP20.
18. Rüdelsheim P., De Swaef H., Van Lijsebettens M., **Inzé D.**, Van Montagu M., De Greef J. and Van Onckelen H.A. (1987). Suppression of shoot formation and its effect on the endogenous phytohormonal levels of mutant tobacco crown gall tissues. *Arch. Int. Physiol. Biochim.* 95, PP21.
19. Rüdelsheim P., **Inzé D.**, Hernalsteens J.-P., Wyndaele R., De Greef J. and Van Onckelen H.A. (1987). Phytohormones in transformed plant cells. *Med. Fac. Landbouww. Rijksuniv. Gent* 52, 1399-1407.
20. Simoens C., Valvekens D., Peleman J., Van Montagu M. and **Inzé D.** (1987). Isolation of organ-specific genes of *Arabidopsis thaliana*. *Arch. Int. Physiol. Biochim.* 95, B238.
21. Peleman J., Van Montagu M. and **Inzé D.** (1987). Characterization of a stem-specifically expressed gene of *Arabidopsis thaliana*. *Arch. Int. Physiol. Biochim.* 95, B225.
22. De Loose M., Alliotte T., Bauw G., Vandekerckhove J., Van Montagu M. and **Inzé D.** (1987). Molecular analysis of auxin and cytokinin effects on *Nicotiana plumbaginifolia* cell suspensions. *Arch. Int. Physiol. Biochim.* 95, B189.
23. Rüdelsheim P., Van Lijsebettens M., **Inzé D.**, De Greef J.A., Van Montagu M. and Van Onckelen H. (1987). What is controlling the endogenous phytohormone levels of a cloned T-DNA gene-4-mutant tobacco crown-gall tissue? *Arch. Int. Physiol. Biochim.* 95, B234.
24. Van Lijsebettens M., **Inzé D.**, Schell J. and Van Montagu M. (1986). Truncated T-DNAs in *Agrobacterium tumefaciens*-transformed cell clones. *Arch. Int. Physiol. Biochim.* 94, B58.
25. Simoens C., Alliotte T., Van Lijsebettens M., Schell J., Van Montagu M. and **Inzé D.** (1986). A binary vector for transformation of higher plants with genomic libraries. *Arch. Int. Physiol. Biochim.* 94, B44.
26. Prinsen E.L., Van Onckelen H.A., Rüdelsheim P.L., **Inzé D.**, Van Lijsebettens M., Van Montagu M. and De Greef J.A. (1986). Gene 1 encoded *in vitro* conversion of L-tryptophan to indole-3-acetamide. *Arch. Int. Physiol. Biochim.* 94, PP29.
27. **Inzé D.**, Van Haute E., Van Montagu M. and Schell J. (1983). Localization of the ornithine-catabolism gene(s) (*orc*) on the *Agrobacterium tumefaciens* plasmid pTiC58. *Arch. Int. Physiol. Biochim.* 91, B105-B106.

IV. Chapters in books (B2)

1. **Inzé D.** and De Veylder L. (2015). Cell division. In *Biochemistry and Molecular Biology of Plants – Second Edition*. Buchanan, B.B, Grissem, W. and Jones, R.L. (Eds.). Oxford, John Wiley & Sons, chapter 11 [ISBN 9780470714218].
2. De Bodt S. and **Inzé D.*** (2013). A guide to CORNET for the construction of coexpression and protein-protein interaction networks. In *Jasmonate Signaling: Methods and Protocols* (Methods in Molecular Biology, Vol. 1011). A. Goossens and L. Pauwels (Eds.). New York, Springer Science+Business Media, pp. 327-343 [978-1627034135].
3. Vanneste S., **Inzé D.** and Beeckman T. (2007). Auxin fuels the cell cycle engine during lateral root initiation. In *Cell Cycle Control and Plant Development* (Annual Plant Reviews, Vol. 32). D. Inzé (Ed.). Oxford, Blackwell Publishing, pp. 187-202 [ISBN 978-1-4051-5043-9].
4. Vlieghe K., **Inzé D.** and De Veylder L. (2007). Physiological relevance and molecular control of the endocycle in plants. In *Cell Cycle Control and Plant Development* (Annual Plant Reviews, Vol. 32). D. Inzé (Ed.). Oxford, Blackwell Publishing, pp. 227-248 [ISBN 978-1-4051-5043-9].
5. Geelen D. and **Inzé D.** (2006). Dynamics and structure of the preprophase band and the phragmoplast. In *Tobacco BY-2 Cells: From Cellular Dynamics to Omics* (Biotechnology in Agriculture and Forestry, Vol. 58). T. Nagata K. Matsuoka, and D. Inzé (Eds.). Berlin, Springer, pp. 23-40 [ISBN 978-3-540-32673-1].

6. Joubès J., **Inzé D.** and Geelen D. (2003). Improvements of the molecular toolbox for cell cycle studies in tobacco BY-2 cells. In *Tobacco BY-2 Cells* (Biotechnology in Agriculture and Forestry, Vol. 53). T. Nagata S. Hasezawa, and D. Inzé (Eds). Berlin, Springer-Verlag, pp. 7-23 [ISBN 3-540-40256-X].
7. Van Breusegem F., Van Montagu M. and **Inzé D.** (2002). Engineering stress tolerance in maize. In *Oxidative Stress in Plants*. D. Inzé, and M. Van Montagu (Eds.). London T aylor & Francis, pp. 191-215 [ISBN 0-415-27214-9].
8. Davey M.W., Van Montagu M. and **Inzé D.** (2002). Ascorbate metabolism and stress. In *Oxidative Stress in Plants*. D. Inzé and M. Van Montagu (Eds.). London T aylor & Francis, pp. 271-296 [ISBN 0-415-27214-9].
9. Vranová E., Van Breusegem F., Dat J., Belles-Boix E. and **Inzé D.** (2002). The role of active oxygen species in plant signal transduction. In *Plant Signal Transduction* (Frontiers in Molecular Biology, Vol. 38). D. Scheel, and C. Wasternack (Eds.). Oxford, Oxford University Press, pp. 45-73 [ISBN 0-19-963879-9].
10. Van Breusegem F. and **Inzé D.** (2002). Transgenic plants expressing tolerance towards oxidative stress. In *Plant Biotechnology and Transgenic Plants*, (Books in Soils, Plants, and The Environment Series, Vol. 92). S. Oksman-Caldentey, and W. Barz (Eds.), New York, Marcel Dekker, pp. 497-516 [ISBN 0-8247-0794-X].
11. Francis D. and **Inzé D.** (2001). The plant cell cycle. In *The Plant Cell Cycle and its Interfaces*, (Sheffield Biological Sciences Series). D. Francis (Ed.). Sheffield, Sheffield Academic Press, pp. 1-18 [ISBN 0-8493-0504-7].
12. Tréhin C., Bergounioux C. and **Inzé D.** (1999). Transcriptional control of cell cycle gene expression. In *Advances in Regulation of Plant Growth and Development*. M. Strnad P. Peč, and E. Beck (Eds.). Praha, Peres Company, pp. 157-196.
13. De Veylder L., Van Montagu M. and **Inzé D.** (1998). Cell cycle control in *Arabidopsis*. In *Plant Cell Division*, (Portland Press Research Monograph X). D. Francis D. Dudits, and D. Inzé (Eds.). London, Portland Press, pp. 1-19 [ISBN 1 85578 089 5].
14. Renaudin J.P., Savouré A., Philippe H., Van Montagu M., **Inzé D.** and Rouzé P. (1998). Characterization and classification of plant cyclin sequences related to A- and B-type cyclins. In *Plant Cell Division*, (Portland Press Research Monograph X). D. Francis D. Dudits, and D. Inzé (Eds.). London, Portland Press, pp. 67-98 [ISBN 1 85578 089 5].
15. Slooten L., Van Montagu M. and **Inzé D.** (1998). Manipulation of oxidative stress tolerance in transgenic plants. In *Transgenic Plant Research*. K. Lindsey (Ed.). Amsterdam, Harwood Academic Publishers, pp. 241-262 [ISBN 90-5702-326-1].
16. Segers G., Rouzé P., Van Montagu M. and **Inzé D.** (1998). Cyclin-dependent kinases in plants. In *Plant Cell Proliferation and its Regulation in Growth and Development*. J.A. Bryant, and D. Chiatante (Eds.). Chichester, John Wiley & Sons, pp. 1-19 [ISBN 0 471 972673].
17. Boerjan W., Baucher M., Chabbert B., Petit-Conil M., Leplé, J.-C., Pilate G., Cornu D., Monties B., **Inzé D.**, Van Doorselaere, J., Jouanin L., Van Montagu M., Tsai C.-J., Podila G.K., Joshi C.P. and Chiang V.L. (1997). Genetic modification of lignin biosynthesis in quaking aspen (*Populus tremuloides*) and poplar (*Populus tremula* x *Populus alba*). In *Micropropagation, Genetic Engineering, and Molecular Biology of Populus*, (General Technical Report RM-GTR-297). N.B. Klopfenstein Y.W. Chun M.-S. Kim, and M.R. Ahuja (Eds.). Rocky Mountain Forest and Range Experiment Station, Fort Collins, pp. 193-205.
18. Mironov V., Van Montagu M.* and **Inzé D.** (1997). Regulation of cell division in plants: an *Arabidopsis* perspective. In *Progress in Cell Cycle Research*, Vol 3. L. Meijer, S. Guidet, and M. Philippe (Eds.). New York, Plenum Press, pp. 29-41 [ISBN 978-1-4613-7451-0].
19. Terryn N., Van Montagu M. and **Inzé D.** (1995). GTP-binding proteins in plants. In *Guidebook to the Small GTPases*, (Sambrook and Tooze Publications). M. Zerial, and L.A. Huber (Eds). Oxford, Oxford University Press, pp. 32-38.

20. Hérouart D., Bowler C., Willekens H., Van Camp W., Slooten L., Van Montagu M. and **Inzé D.** (1994). Genetic engineering of oxidative stress resistance in higher plants. In *The Production and Uses of Genetically Transformed Plants*, (Proceedings of a Discussion Meeting, London, UK, May 26-27, 1993) M.W. Bevan B.D. Harrison, and C.J. Leaver (Eds.). London, Chapman & Hall, pp. 47-52 [ISBN 0-412-60060-9].
21. Van Camp W., Van Montagu M. and **Inzé D.** (1994). Superoxide dismutases. In *Causes of Photooxidative Stress and Amelioration of Defense Systems in Plants*. C.H. Foyer, and P.M. Mullineaux (Eds.). Boca Raton, CRC Press, pp. 317-341.
22. Bauw G., Van Montagu M. and **Inzé D.** (1992). Microsequence analysis of *Arabidopsis* proteins separated by two-dimensional polyacrylamide gel electrophoresis: a direct linkage of proteins and genes. In *Methods in Arabidopsis Research*. C. Koncz N.-H. Chua, and J. Schell (Eds.). Singapore, World Scientific Publishing, pp. 357-377.
23. Caplan A., Herrera-Estrella L., **Inzé D.**, Van Haute E., Van Montagu M., Schell J. and Zambryski P. (1984). Introduction of genetic material into plant cells. In *Biotechnology and Biological Frontiers*. P.H. Abelson (Ed.). Washington D.C., The American Association for the Advancement of Science, pp. 480-493.

V. Editor of books (B3)

1. **Inzé D.** (2007). *Cell Cycle Control and Plant Development* (Annual Plant Reviews, Vol. 32). Oxford, Blackwell Publishing [ISBN 978-1-4051-5043-9].
2. Nagata T., Matsuoka K. and **Inzé D.** (2006). *Tobacco BY-2 Cells: A New Treatise* (Biotechnology in Agriculture and Forestry, Vol.58). Berlin, Springer-Verlag [ISBN 978-3-540-32673-1].
3. Nagata T., Hasezawa S. and **Inzé D.** (2003). *Tobacco BY-2 Cells* (Biotechnology in Agriculture and Forestry, Vol. 53). Berlin, Springer-Verlag [ISBN 3-540-40256-X].
4. **Inzé D.** and Van Montagu M. (2002). *Oxidative Stress in Plants*. London T aylor & Francis [ISBN 0-415-27214-9].
5. **Inzé D.** (2000). *The Plant Cell Cycle* (Plant Molecular Biology, Special Issue). Dordrecht, Kluwer Academic Publishers [ISBN 0-7923-6678-6].
6. Francis D., Dudits D. and **Inzé D.** (1998). *Plant Cell Division*, (Portland Press Research Monograph X) London, Portland Press [ISBN 1 85578 089 5].

VI. Proceedings of congresses mentioned in the Web of Science (P1)

1. Donné S., Luong H., Dhondt S., Wuyts N., **Inzé D.**, Goossens B. and Philips W. (2017). Robust plane-based calibration for linear cameras. *24th IEEE International Conference on Image Processing (ICIP)*, pp. 36-40 (<http://2017.ieeeicip.org/>), Beijing, September 17-20, 2017.
2. De Vylder J.*, Luong H., Philips W., Dhondt S. and **Inzé D.** (2015). Rotational fusion and extended field of depth for a single cell layer in DIC microscopic images. *2015 IEEE International Conference on Digital Signal Processing (DSP)*, 1283-1287 (Singapore, September 21-24, 2015).
3. De Vylder J., Rooms F., Dhondt S., **Inzé D.** and Philips W. (2013). A novel tracing method for the segmentation of cell wall networks. *Conf. Proc. IEEE Eng. Med. Biol. Soc.* 2013, 5433-5436 (35th Annual international conference of the IEEE Engineering in Medicine and Biology Society (EMBC 2013), Osaka, July 3-7, 2013).
4. Rischer H., Oresic M., Goossens A., **Inzé D.** and Oksman-Caldentey K.-M. (2007). Integrating transcriptional and metabolic profiling to unravel secondary metabolite biosynthesis in plants. In *Biotechnology and Sustainable Agriculture 2006 and Beyond*, (Proceedings of the 11th IAPTC&B Congress, August 13-18, 2006, Beijing (China) Z. Xu J. Li Y. Xue, and W. Yang (Eds.). Dordrecht, Springer, pp. 135-138 [ISBN 978-1-4020-6634-4].
5. Terryn N., Van Montagu, **Inzé D.** and Goossens A. (2006). Functional genomic approaches to study and engineer secondary metabolism in plant cell cultures. In *Medicinal and Aromatic Plants:*

- Agricultural, Commercial, Ecological, Legal, Pharmacological and Social Aspects* (Wageningen UR Frontis Series, Vol. 17) (Proceedings of the Frontis Meeting, Wageningen, April 17-20, 2005) R.J. Bogers L.E. Craker, and D. Lange (Eds). Dordrecht, Springer, pp. 291-300 [ISBN 978-1-4020-5448-8].
6. Oksman-Caldentey K.-M., Häkkinen S., Goossens A., Laakso I., Seppänen-Laakso T., Nuutila A.M. and **Inzé D.** (2003). Secondary metabolites in the post-genomic era. In *Plant Biotechnology 2002 and Beyond* (Proceedings of the 10th IAPTC&B Congress, June 23-28, 2002, Orlando, Florida, USA) I.K. Vasil (Ed.). Dordrecht, Kluwer Academic Publishers, pp. 465-468 [ISBN 1-4020-1126-1].
 7. **Inzé D.** (2003). The plant cell cycle. In *Plant Biotechnology 2002 and Beyond* (Proceedings of the 10th IAPTC&B Congress, June 23-28, 2002, Orlando, Florida, USA) I.K. Vasil (Ed.). Dordrecht, Kluwer Academic Publishers, pp. 28-29 [ISBN 1-4020-1126-1].
 8. Burssens S., De Veylder L., Van Montagu M. and **Inzé D.** (1999) Identification of novel cell cycle genes in *Arabidopsis thaliana*. In *Plant Biotechnology and In Vitro Biology in the 21st Century*, (Current Plant Science and Biotechnology in Agriculture, Vol. 36) A. Altman M. Ziv, and S. Izhar (Eds.). Dordrecht, Kluwer Academic Publishers, pp. 355-358 [ISBN 0-7923-5826-0].
 9. Stoeva P., Hristova D., Donkova P., Petrova M., Gorinova N., Yankulova M., **Inzé D.**, Van Camp W. and Atanassov A. (1999). Resistance to tomato spotted wilt virus in transgenic tomato varieties. In *Plant Biotechnology and In Vitro Biology in the 21st Century*, (Current Plant Science and Biotechnology in Agriculture, Vol. 36) A. Altman M. Ziv, and S. Izhar (Eds.). Dordrecht, Kluwer Academic Publishers, pp. 549-552 [ISBN 0-7923-5826-0].
 10. de Almeida Engler J., Burssens S., Celenza Jr. J.L., **Inzé D.**, Van Montagu M., Engler G. and Gheysen G. (1998). Cell cycle progression in nematode-induced galls and syncytia. In *Radical Biology: Advances and Perspectives on the Function of Plant Roots* (Current Topics in Plant Physiology: An American Society of Plant Physiology Series, Vol. 18) H.E. Flores J.P. Lynch, and D. Eissenstat (Eds.). Rockville, American Society of Plant Physiologists, pp. 358-359 [ISBN 0-943088-35-6].
 11. Boerjan W., Meyermans H., Chen C., Leplé J.-C., Christensen J.H., Van Doorselaere J., Baucher M., Petit-Conil M., Chabbert B., Tollier M.-T., Monties B., Pilate G., Cornu D., **Inzé D.**, Jouanin L. and Van Montagu M. (1996). Genetic engineering of lignin biosynthesis in poplar. In *Somatic Cell Genetics and Molecular Genetics of Trees*, (Forestry Sciences, Vol. 49) M.R. Ahuja W. Boerjan, and D.B. Neale (Eds.). Dordrecht, Kluwer Academic Publishers, pp. 81-88.
 12. Baucher M., Chabbert B., Van Doorselaere J., Pilate G., Cornu D., Petit-Conil M., Monties B., Van Montagu M., **Inzé D.**, Jouanin L. and Boerjan W. (1996). Higher extractability of lignin in poplar (*Populus tremula x P. alba*) by reducing cinnamyl alcohol dehydrogenase activity. In *Somatic Cell Genetics and Molecular Genetics of Trees*, (Forestry Sciences, Vol. 49) M.R. Ahuja W. Boerjan, and D.B. Neale (Eds.). Dordrecht, Kluwer Academic Publishers, pp. 153-158.
 13. Tollier M.T., Chabbert B., Lapierre C., Monties B., Francesch C., Rolando C., Jouanin L., Pilate G., Cornu D., Baucher M. and **Inzé D.** (1995). Lignin composition in transgenic poplar plants with modified cinnamyl alcohol dehydrogenase activity with reference to dehydropolymer models of lignin. In *Polyphenols 94*, (Les Colloques N° 69) R. Brouillard M. Jay, and A. Scalbert (Eds.). Paris, INRA Editions, pp. 339-340.
 14. Slooten L., Van Camp W., Kushnir S., Botterman J., Van Montagu M. and **Inzé D.** (1995). Transgenic tobacco plants with an improved tolerance towards oxidative stress in chloroplasts. In *Photosynthesis: from Light to Biosphere*, Vol. IV, Mathis P. (Ed.). Dordrecht, Kluwer, pp. 165-170.
 15. Slooten L., Capiou K., Kushnir S., Van Montagu M. and **Inzé D.** (1995). Enhancement of oxidative stress tolerance in transgenic tobacco plants overexpressing ascorbate peroxidase in the chloroplasts. In *Photosynthesis: from Light to Biosphere*, Vol. IV, Mathis P. (Ed.). Dordrecht, Kluwer, pp. 315-318.
 16. Stassart J.-M., Slooten L., Botterman J., Van Breusegem F., Meray N. and **Inzé D.** (1995). Cold-tolerance, oxidative stress tolerance and anti-oxidant enzyme levels in non-transgenic and Mn-superoxide dismatase overexpressing maize. In *Photosynthesis: from Light to Biosphere*, Vol. IV, Mathis P. (Ed.). Dordrecht, Kluwer, pp. 873-876.

17. **Inzé D.**, Ferreira P., Hemerly A., Segers G., De Veylder L., Engler J., Engler G. and Van Montagu M. (1993). The molecular basis of cell cycle control in *Arabidopsis thaliana*. In *Morphogenesis in Plants: Molecular Approaches* (NATO ASI Series A, Vol. 253) K.A. Roubelakis-Angelakis, and K. Tran Thanh Van (Eds). New York, Plenum Press, pp. 137-144.
18. Bowler C., Slooten L., Tsang E.W.T., Van Camp W., Van Montagu M. and **Inzé D.** (1991). Oxidative stress in plants. In *Plant Molecular Biology 2*, (NATO ASI Series A: Life Sciences, Vol. 212) R.G. Herrmann, and B.A. Larkins (Eds.). New York, Plenum Press, pp. 695-705.
19. Dekeyser R., **Inzé D.** and Van Montagu M. (1990). Transgenic plants. In *Gene Manipulation in Plant Improvement II*, (19th Stadler Genetics Symposium) J.P. Gustafson (Ed.). New York, Plenum Press, pp. 237-250.

VII. Proceedings of congresses not mentioned in the Web of Science (C1)

1. Talengera D., Beemster G.T.S., Fabio F., **Inzé D.**, Kunert K. and Tushemereirwe W.K. (2010). Transformation of banana (*Musa* spp.) with a D-type cyclin gene from *Arabidopsis thaliana* (*AtCYCD2;1*). In *Agriculture: Africa's "Engine for Growth" - Plant Science & Biotechnology Hold the Key*, (Aspects of Applied Biology, Vol. 96) T. Bruce C. Foyer N. Halford A. Keys K. Kunert D. Lawlor M. Parry, and G. Russell (Eds.). Warwick, UK, Association of Applied Biologists, pp. 45-53 [ISSN 0265-1491].
2. Gheysen G., Grunewald W., Van De Capelle E., Karimi M., De Smet I., **Inzé D.** and Beeckman T. (2006). Characterization of *AtWRKY23*, an *Arabidopsis thaliana* gene that is highly expressed in nematode induced feeding sites. In *Biology of Molecular Plant-Microbe Interactions*, Vol. 5 (Proceedings of the XII International Congress on Plant-Microbe Interactions, Merida, December 14-19, 2005) F. Sánchez C. Quito I.M. López-Lara, and O. Geiger (Eds). St. Paul, MN, International Society for Plant-Microbe Interactions, pp. 655-658 [ISBN-13 978-0-9654625-4-9].
3. Beemster G.T.S., De Veylder L., Beeckman T., Peelaers D., Tréhin C., West G., Van Der Straeten D., Baskin T.I. and **Inzé D.** (1999). Molecular regulation of the plant cell division cycle and plant growth regulation: the *Arabidopsis thaliana* root as a model system. *Med. Fac. Landbouww. Univ. Gent* 64/5b, 359-362.
4. Guetchev T., Willekens H., Van Montagu M., Dukiandjiev S., Inze D. and Van Camp W. (1998). Antioxidant enzymes and chilling stress in tobacco. In *Progress in Botanical Research* (Proceedings of the 1st Balkan Botanical Congress) I. Tsekos, and M. Moustakas (Eds.). Dordrecht, Kluwer Academic Publishers, pp. 497-500 [ISBN 0-7923-5305-6].
5. Terryn N., **Inzé D.** and Van Montagu M. (1996). Small GTP-binding proteins in plants. In *Plant Membrane Biology* (Proceedings of the Phytochemical Society of Europe, Vol. 38) I.M. Møller, and P. Brodelius (Eds.). Oxford, Oxford University Press, pp. 19-27.
6. Van Montagu M., Van Lijsebettens M. and **Inzé D.** (1995). Molecular-genetic approach to study plant growth and development. In *International Journal of Developmental Biology* (1st Congress of the Spanish Society of Developmental Biology) 1996 (Suppl 1), 49S-50S.
7. Slooten L., Van Camp W., Kushnir S., Botterman J., Van Montagu M. and **Inzé D.** (1995). Enhancement of oxidative stress tolerance in transgenic tobacco overexpressing antioxidant enzymes. In *Stressnet* (Proceedings of the Second Stressnet Conference, Salsomaggiore, Italy, 21-23 September, 1995) R.A. Leigh, and M.M.A. Mechteld Blake-Kalff (Eds.). Brussels, European Commission, pp. 59-64.
8. Van Camp W., Willekens H., Chamnongpol S., Slooten L., Van Montagu M. and **Inzé D.** (1995). Analysis of the antioxidant defense system in transgenic plants. In *Stressnet* (Proceedings of the Second Stressnet Conference, Salsomaggiore, Italy, 21-23 September, 1995) R.A. Leigh, and M.M.A. Mechteld Blake-Kalff (Eds.). Brussels, European Commission, pp. 71-76.
9. Van Camp W., Willekens H., Bowler C., Slooten L., Langebartels C., Van Montagu M. and **Inzé D.** (1994). Engineering of oxidative stress tolerance in plants. In *Proceedings of the Third International Symposium Workshop on the Applications of DNA Technology to Agriculture and Health* S. Riazuddin, and J. Papamatheakis (Eds.). Lahore, Centre for Advanced Molecular Biology, pp. 119-132.

10. de Carvalho F., Gheysen G., **Inzé D.**, Van Montagu M., Alonso E. and Castresana C. (1994). Regulation of beta-1,3-glucanase gene expression. In *Proceedings of the Third International Symposium Workshop on the Applications of DNA Technology to Agriculture and Health S.* Riazuddin, and J. Papamatheakis (Eds.). Lahore, Centre for Advanced Molecular Biology, pp. 113-117.
11. Vander Mijnsbrugge K., Bauw G., Delporte T., De Pauw P., Steenackers M., Meyermans H., Claeys M., Van Montagu M., **Inzé D.**, Van Den Eeckhout E. and Boerjan W. (1994). Molecular biological approach to study disease resistance in poplar. *Med. Fac. Landbouwwet. Univ. Gent* 59/4a, 1727-1731.
12. de Carvalho F., Boerjan W., Ingelbrecht I., Depicker A., **Inzé D.** and Van Montagu M. (1994). Post-transcriptional gene silencing in transgenic plants. In *Plant Molecular Biology: Molecular Genetic Analysis of Plant Development and Metabolism*, (NATO-ASI Series H, Vol. 81) G. Coruzzi, and P. Puigdomènech (Eds.). Berlin, Springer Verlag, pp. 437-452.
13. de Carvalho F., **Inzé D.**, Castresana C. and Van Montagu M. (1993). Post-transcriptional suppression of β -1,3-glucanase expression in transgenic tobacco plants. In *Mechanisms of Plant Defense Responses* (Development in Plant Pathology, Vol. 2) B. Fritig, and M. Legrand (Eds.). Dordrecht, Kluwer Academic Publishers, pp. 441-445.
14. Tiemann K., Filmer B., **Inzé D.**, Van Montagu M. and Barz W. (1993). Phytoalexin biosynthesis in chickpea (*Cicer arietinum* L.) cDNA cloning and regulation of NADPH:isoflavone oxidoreductase (IFR). In *Mechanisms of Plant Defense Responses* (Development in Plant Pathology, Vol. 2) B. Fritig, and M. Legrand (Eds.). Dordrecht, Kluwer Academic Publishers, pp. 320-323.
15. Van der Eycken W., **Inzé D.**, Van Montagu M. and Gheysen G. (1993). Study of tomato genes affected by infection with the nematode *Meloidogyne incognita*. In *Mechanisms of Plant Defense Responses* (Development in Plant Pathology, Vol. 2) B. Fritig, and M. Legrand (Eds.). Dordrecht, Kluwer Academic Publishers, pp. 336-339.
16. Bowler C., Caplan A., **Inzé D.** and Van Montagu M. (1993). Innovative approaches to crop improvement: an assessment of superoxide dismutase for stress tolerance. In *New Frontiers in Rice Research* K. Muralidharan, and E.A. Siddiq (Eds.). Hyderabad, Directorate of Rice Research, pp. 192-197.
17. Hérouart D., Willekens H., Van Montagu M. and **Inzé D.** (1992). Activation transcriptionnelle de gènes lors de stress oxydants. In *Impacts technologiques et facteurs limitant des transformations génétiques végétales* (Biotechnologies '92 - Rencontres Internationales en Picardie) M. Chopplet (Ed.). Le Biopôle, Amiens, pp. 71-77.
18. Hérouart D., Willekens H., Van Montagu M. and **Inzé D.** (1992). Activation transcriptionnelle de gènes lors de stress oxydants. In *Impacts technologiques et facteurs limitant des transformations génétiques végétales* (Biotechnologies '92 - Rencontres Internationales en Picardie) M. Chopplet (Ed.). Le Biopôle, Amiens, pp. 71-77.
19. Hérouart D. et **Inzé D.** (1991). Approche moléculaire de la production de métabolites secondaires chez les plantes: perspectives nouvelles. In *Le Biopôle Végétal, Programmes de Recherche 1990-1992* M. Chopplet (Ed.). Le Biopôle, Amiens, pp. 71-75.
20. **Inzé D.** and Van Montagu M. (1991). Recent achievements in plant genetic engineering. In *Plant Science Today*, (Les Colloques n° 59) Y. de Kouchkovsky (Ed.). Versailles, INRA Editions, pp. 279-282.
21. Hérouart D., Bowler C., Tsang E.W.T., Van Camp W., Van Montagu M. and **Inzé D.** (1991). Differential expression of superoxide dismutase genes in *Nicotiana plumbaginifolia* exposed to environmental stress conditions. In *Active Oxygen/Oxidative Stress and Plant Metabolism* E.J. Pell, and K.L. Steffen (Eds.). Rockville, The American Society of Plant Physiologists, pp. 250-252.
22. Van Camp W., Hérouart D., Bowler C., Van Montagu M. and **Inzé D.** (1991). Tissue-specific activity of a manganese superoxide dismutase promoter in transgenic plants. In *Active Oxygen/Oxidative Stress and Plant Metabolism* E.J. Pell, and K.L. Steffen (Eds.). Rockville, The American Society of Plant Physiologists, pp. 253-255.

23. Bowler C., Slooten L., Tsang E.W.T., Van Camp W., Van Montagu M. and **Inzé D.** (1991). Oxidative stress in plants. In *Plant Molecular Biology 2*, (NATO ASI Series A: Life Sciences, Vol. 212) R.G. Herrmann, and B.A. Larkins (Eds.). New York, Plenum Press, pp. 695-705.
24. **Inzé D.**, Vandekerckhove J. and Van Montagu M. (1989). Microsequencing of plant proteins and cloning of the corresponding genes by oligonucleotide probing. In *Primary and Secondary metabolism of Plant Cell Cultures II*. W.G.W. Kurz (Ed.). Berlin, Springer-Verlag, pp. 252-259.
25. Wobus U., Bäumlein H., **Inzé D.** and Nagy I. (1989). *Vicia faba* storage protein genes and their promoter activity in transgenic tobacco plants. In *Applied Plant Molecular Biology*. G. Galling (Ed.). Braunschweig Technical Universität, pp. 98-103.
26. Van Onckelen H., Rüdelsheim P., Beinsberger S., **Inzé D.**, Van Montagu M. and De Greef J. (1988). Mutual interaction of plant specific and T-DNA controlled IAA metabolism in transformed tobacco tissue. In *Physiology and biochemistry of auxins in plants* M. Kutáek R.S. Nandurski, and J. Krekule (Eds.). Praha, Academia, pp. 379-387.
27. De Loose M., Alliotte T., Bauw G., Vandekerckhove J., Van Montagu M. and **Inzé D.** (1988). Molecular analysis of auxin and cytokinin effects in *Nicotiana plumbaginifolia* cell suspensions. In *Physiology and Biochemistry of Auxins in Plants* M. Kutáek R.S. Nandurski, and J. Krekule (Eds.). Praha, Academia, pp. 145-150.
28. **Inzé D.**, Follin A., Van Onckelen H., Rüdelsheim P., Schell J. and Van Montagu M. (1987). Functional analysis of the T-DNA *onc* genes. In *Molecular Biology of Plant Growth Control*, (UCLA Symposia on Molecular Biology, New Series, Vol. 44) J.E. Fox, and M. Jacobs (Eds.). New York, Alan R. Liss, pp. 181-196.
29. Rüdelsheim P., De Loose M., **Inzé D.**, Van Montagu M., De Greef J.A. and Van Onckelen H.A. (1987). Phytohormone-receptors from tobacco crown gall tissues. In *Plant Hormone Receptors*, (NATO ASI Series, Vol. H10) D. Klämbt (Ed.). Berlin, Springer Verlag, pp. 71-79.
30. Gheysen G., Van Montagu M., Willmitzer L., Joos H., **Inzé D.**, Depicker A., Schröder J., Otten L., Wöstemeyer A., Caplan A., Deblaere R., Gielen J., Hernalsteens J.-P. and Schell J. (1985). Oncogenes carried by Ti plasmids control organ morphogenesis. In *Proceedings 16th FEBS Congress*, Yu. Ovchinnikov (Ed.). Utrecht, VNU Science Press, pp. 107-122.
31. Schell J., Van Montagu M., Zambryski P., Schröder J., Herrera-Estrella L., De Block M. and **Inzé D.** (1984). Gene transfer as a means to study the mechanism of gene expression regulation in plants. In *Genetics: New Frontiers*. New Delhi, Oxford and IBH Publishing Co., pp. 475-485.
32. Schell J., Van Montagu M., Willmitzer L., Leemans J., Deblaere R., Joos H., **Inzé D.**, Wöstemeyer A., Otten L. and Zambryski P. (1984). Transfer of foreign genes to plants and its use to study developmental processes. In *Cell fusion: gene transfer and transformation*, (Miles International Symposium Series, Vol. 14) R.F. Beers Jr, and E.G. Bassett (Eds). New York, Raven Press, pp. 113-128.
33. Schell J., Van Montagu M., Holsters M., Zambryski P., Joos H., **Inzé D.**, Herrera-Estrella L., Depicker A., De Block M., Caplan A., Dhaese P. and Van Haute E. (1984). Ti plasmids as experimental gene vectors for plants. In *Genetic Manipulation: Impact on Man and Society* W. Arber K. Illmensee W.J. Peacock, and P. Starlinger (Eds). Cambridge, Cambridge University Press, pp. 87-102.
34. Schell J., Van Montagu M., Schröder J., Schröder G., **Inzé D.**, Deblaere R., Hernalsteens J.-P. and De Block M. (1984). Genes involved in development and differentiation control in plants. In *Hormones and cell regulation* (European Symposium, Vol. 8) J.E. Dumont, and J. Nunez (Eds). Amsterdam, Elsevier Science Publishers, pp. 245-254.
35. Schell J., Van Montagu M., Holsters M., Zambryski P., Joos H., **Inzé D.**, Herrera-Estrella L., Depicker A., De Block M., Caplan A., Dhaese P., Van Haute E., Hernalsteens J.-P., De Greve H., Leemans J., Deblaere R., Willmitzer L., Schröder J. and Otten L. (1983). Ti plasmids as experimental gene vectors for plants. In *Advances in Gene Technology: Molecular Genetics of Plants and Animals*, (Miami Winter Symposia Vol. 20) K. Downey R.W. Voellmy F. Ahmad, and J. Schultz (Eds.). New York, Academic Press, pp. 191-209.

36. Schell J., Van Montagu M., Holsters M., Hernalsteens J.-P., Dhaese P., De Greve H., Leemans J., Joos H., **Inzé D.**, Willmitzer L., Otten L., Wöstemeyer A., Schröder J. and Schröder G. (1982). Plant cells transformed by modified Ti plasmids: a model system to study plant development. In *Biochemistry of differentiation and Morphogenesis* L. Jaenicke (Ed.). Berlin, Springer Verlag, pp. 65-73.
37. Leemans J., **Inzé D.**, Villarroel R., Engler G., Hernalsteens J.-P., De Block M. and Van Montagu M. (1981). Plasmid mobilization as a tool for in vivo genetic engineering. In *Molecular Biology, Pathogenicity and Ecology of bacterial plasmids*. D.B. Levy (Ed.). New York, Plenum Press, pp. 401-410.

VIII. Conference abstracts (C3)

1. Donné S., Luong H., Goossens B., Dhondt S., Wuyts N., **Inzé D.** and Philips W. (2016). Machine learning for maize plant segmentation. *Belgian-Dutch Conference on Machine Learning (BENELEARN)*, Kortrijk, Belgium, September 12-13, 2016.
2. Donné S., Goossens B., Dhondt S., Wuyts N., Luong H., **Inzé D.** and Philips W. (2016). GPU-based maize plant analysis: accelerating CNN segmentation and voxel carving. *NVIDIA European GPU Technology Conference*. Amsterdam, The Netherlands, September 28, 2016.
3. Donné S., Luong H., Dhondt S., Wuyts N., **Inzé D.** and Philips W. (2016). 3D reconstruction of maize plants in the phenoVision system. Knowledge for Growth. Ghent, Belgium, September 18, 2016.
4. De Vylder J., Luong H., Dhondt S., Vlaminck M., **Inzé D.** and Philips W. (2014). Rotation and focal depth fusion of DIC microscopic images. *Conf. Proc. IEEE Eng. Med. Biol. Soc.* 2014, 747 (2014 IEEE International Symposium on Biomedical Imaging (ISBI 2014), Beijing, China, April 28-May 2, 2014.
5. De Vylder J., Dhondt S., Luong H., **Inzé D.** and Philips W. (2014). Phenotyping on microscopic scale using DIC microscopy. *Phenodays, Abstracts*. p. 43-43.
6. Dhondt S., Vanhaeren H., Van Loo D., Cnudde, V. and **Inzé D.** (2010). Plant structure visualization by high-resolution X-ray computed tomography. In *X-ray tomography as a multidisciplinary research tool: exploring new frontiers* (1st UGCT seminar, Ghent, Belgium, December 8, 2010) P. 69.
7. Rischer H., Goossens A., **Inzé D.** and Caldentey K.O. (2009). Functional analysis of genes related to secondary metabolism in plants. (34th Congress of the Federation of European Biochemical Societies, Prague, Czech Republic, July 4-9, 2009). *FEBS J.* 276, 67
8. Van Nieuwerburgh F., Maes L., Vande Castele S., Soetaert S., Van Montagu M., **Inzé D.**, Deforce D. and Goossens A. (2009). Phytohormonal regulation of gland formation and artemisinin biosynthesis in *Artemisia annua*. In *Terpnet 2009: Biosynthesis and function of isoprenoids in plants, microorganisms and parasites*, (9th International Meeting on All Aspects of the Chemistry and Biology of Terpenes and Isoprenoids, Tokyo, Japan, May 25-29, 2009), University of Tokyo, p. 45.
9. **Inzé D.**, Gonzalez N. and De Jaeger G. (2009). Molecular machines driving plant growth. *FEBS J.* 276, Suppl. 1, 2.
10. Grunewald W., De Smet I., Willemsen V., **Inzé D.**, Gheysen G., Friml J. and Beekman T. (2008). WRKY23 gene dosage is crucial to attenuate both the SHR- and auxin-dependent signalling in the control of root stem cell specification and maintenance. In *Auxin 2008, Proceedings*. Presented at the Auxin 2008, Marrakech, Morocco (4-9/10/2008).
11. Hakkinen S.T., Rischer H., Goossens A., Ritala A., Seppanen-Laakso T., **Inzé D.** and Oksman-Caldentey K.M. (2006). Metabolic engineering of plant cell cultures - towards the new resources of alkaloids. (54th Annual Congress on Medicinal Plant Research, Helsinki, Finland, August 29-September 2, 2006). *Planta Medica* 72, 1031-1032.

12. Oksman-Caldentey K.M., Hakkinen S.T., Rischer H., Ritala A., Ma R., Seppanen-Laakso T., Goossens A., Oresic M. and **Inzé D.** (2006). Plant secondary metabolism in the post-genomic era. (54th Annual Congress on Medicinal Plant Research, Helsinki, Finland, August 29-September 2, 2006). *Planta Medica* 72, 963.
13. Rischer H., Goossens A., Oresic M., **Inzé D.** and Oksman-Caldentey K.M. (2006). Integrated transcript and metabolite profiling of the medicinal plant *Catharanthus roseus*. (54th Annual Congress on Medicinal Plant Research, Helsinki, Finland, August 29-September 2, 2006). *Planta Medica* 72, 981.
14. Grunewald W., De Smet I., Karimi M., Goeminne G., Van Poucke K., Vanholme B., **Inzé D.**, Beeckman T. and Gheysen G. (2006). Functional analysis of a plant transcription factor that is highly upregulated upon nematode infection. In *European Society of Nematologists, XXVIII International symposium, Abstracts*. (28th International symposium of the European Society of Nematologists; Blagoevrad, Bulgaria 5-9/06/2006).
15. Grunewald W., De Smet I., Vanneste S., Karimi M., Goeminne G., **Inzé D.**, Beeckman T. and Gheysen G. (2005). WRKY23 regulates auxin distribution through activation of flavonoid biosynthesis. In *Environmental signalling: Arabidopsis as a model* (Utrecht PhD Summerschool), Course proceedings, Utrecht, The Netherlands (22-24/08/2005).
16. Van Damme D., Bouget F.-Y., **Inzé D.** and Geelen D. (2005). Novel cytokinesis proteins revealed by GFP localization. *Comp. Biochem. and Physiol. A* 141: S321-S321. (Accession Number: WOS:000202991601448)
17. Stals H., Van Leene J., Witters E., Van Onckelen H., **Inzé D.** and De Jaeger G. (2005). Tandem affinity purification to study cdk/cyclin complexes in *Arabidopsis thaliana*. *Mol. Cell. Proteomics* 4, Suppl. 1, S56.
18. De Sutter V., Haekkinen S., Pauwels L., Vanderhaeghen R., Oksman-Caldentey K.-M., Hilson P., **Inzé D.** and Goossens A. (2004). Elucidation of methyl jasmonate inducible signalling pathways leading to the production of secondary metabolites in plant cells. *Acta Physiologiae Plantarum* 26, 179.
19. Coutuer S., Van Damme D., Van Poucke K., Vanstraelen M., **Inzé D.** and Geelen D. (2004). Identification of protein complexes associated with the cytoskeleton in dividing plant cells. *Acta Physiol. Plant.* 26: 149-149. (Accession Number: WOS:000205415400385)
20. Vandenameele S., Van der Kelen K., Boonefaes T., Dat J., Gadjev I., Morsa S., Rottiers P., Zabeau M., **Inzé D.** and Van Breusegem F. (2003). A comprehensive analysis of gene expression during H₂O₂ induced cell death in tobacco. *Free Radical Res.* 37, 3.
21. Segers G., Gadisseur I., Jacquard A., Van Montagu M. and **Inzé D.** (1996). *Arabidopsis thaliana* cyclin-dependent kinase genes *cdc2aAt* and *cdc2bAt*: cell cycle regulated transcription and kinase activity. *Cell Biol. Int.* 20, 309.
22. **Inzé D.**, Segers G., Ferreira P., Hemery A., De Veylder L., Corben L., Shaul O., Burssens S., Stals H. and Van Montagu M. (1996). Cell cycle control in *Arabidopsis*. *Cell Biol. Int.* 20, 303-304.
23. Rüdelsheim P., Van Lijsebettens M., Hernalsteens J.-P., **Inzé D.**, De Greef J.A., Van Montagu M. and Van Onckelen H. A. (1987). Comparison of endogenous phytohormone levels in cloned and non-cloned wild-type tobacco crown gall tissues. *Acta Botanica Neerlandica* (Vol. 36, pp. 212–212). Presented at the 1st Joint meeting of the Belgian Federation for Plant Physiology and the Section for Plant Physiology, Royal Botanical Society of The Netherlands, May 08, 1987.
24. **Inzé D.**, Gheysen G., Van Montagu M. and Schell J. (1981). Region-specific transposon mutagenesis of a Ti plasmid of *Agrobacterium tumefaciens*. *Arch. Int. Physiol. Biochim.* 89, B176-B177.

IX. Other publications (V)

1. Dima O. and **Inzé D.*** (2021). The role of scientists in policy making for more sustainable agriculture. *Curr. Biol.* 31, R215-R240.

2. Stützel H.* , Brüggemann N. and **Inzé D.** (2016). The future of field trials in Europe: establishing a network beyond boundaries. *Trends Plant Sci.* 21, 92-95.
3. Snowden K.C.* and **Inzé D.*** (2016). Editorial overview: Cell signalling and gene regulation: The many layers of plant signalling. *Curr. Opin. Plant Biol.* 33, iv-vi. *Current Opinion in Plant Biology* Special Issue 33 “Cell signalling and gene regulation 2016”.
4. González N. and **Inzé D.*** (2015). Preface Special Issue: Plant Organ Growth Control. *J. Exp. Bot.* 66, 1043.
5. **Inzé D.*** (2014). Interview with Dirk Inzé. *Trends Plant Sci.* 19, 201-202.
6. Hilson P. and **Inzé D.** (2009). Book review: Plant systems biology. Annual Plant Reviews, Volume 35. *Ann. Bot.* 104, x-xi.
7. **Inzé D.*** (2005). Plant biotechnology helps to build a sustainable economy. *Curr. Opin. Biotechnol.* 16, 109-111.
8. Oksman-Caldentey K.-M., **Inzé D.** and Orešič M. (2004). Connecting genes to metabolites by a systems biology approach. *Proc. Natl. Acad. Sci. USA* 101, 9949-9950 (commentary).
9. Hashimoto T. and **Inzé D.*** (2003). How unique is the plant cell? *Curr. Opin. Plant Biol.* 6, 517-519.
10. Beemster G.T.S., Fiorani F. and **Inzé D.*** (2003). Cell cycle: the key to plant growth control? *Trends Plant Sci.* 8, 154-158.
11. **Inzé D.**, Gutiérrez C. and Chua N.-H. (1999). Trends in plant cell cycle research. *Plant Cell* 11, 991-994 [Corrigendum *Plant Cell* 11, 1811].
12. Slooten L., Bowler C., Sybesma C., Van Montagu M. and **Inzé D.** (1991). Improvement of plant resistance to oxygen radical stress: the effect of overexpression of manganese superoxide dismutase. In *Active Oxygen/Oxidative Stress and Plant Metabolism* E.J. Pell, and K.L. Steffen (Eds.). Rockville, The American Society of Plant Physiologists, pp. 256-261.

X. Patents (C2)

1. **Inzé D.**, Nelissen H., Van Hautegeem T., Claeys H., Van Ex F., Nuccio M. and Ruttinck T. (2023). Gene edited maize with altered characteristics. US 63/496,774
2. Pauwels L., **Inzé D.**, Nelissen H., Lorenzo C. and Impens L. (2023). Allelic combinations in crops for yield increase. EP 23169181.7
3. Joossens J., Van Hautegeem T., **Inzé D.**, Nelissen H. (2022). Means and methods to increase abiotic stress tolerance in plants. EP 22150288.3
4. **Inzé D.**, Nelissen H., Laureyns R. (2021). Means and methods for producing drought tolerant cereals. EP 21151186.0 - PCT/EP2022/050370
5. Silva Hemerly A., Cavalcanti Gomes Ferreira P., Gong P., Nelissen H., **Inzé D.**, Grossi De Sá M.F., Basso M.F., Morgante C.V., Lisei-De-Sa M.E. (2020). Method increase plant biomass, plant yield and plant drought tolerance. US 16/866,467; filed on 5/04/2020.
6. Pauwels L. and **Inzé D.** (2019). Chimeric genes to improve plant transformation. EP 19177580.8
7. **Inzé D.**, Menossi M., Gonçalves V.R., Vieira Guidelli G., Nelissen H. (2018). Complex breeding in plants. PCT/EP2019/071426, filed on 09/08/2019.
8. **Inzé D.** (2018). Complex breeding in plants. EP 18180095.4
9. **Inzé D.**, Dhondt S. (2016). Netwell assay plate system. GB 1614116.0
10. **Inzé D.**, Van Dingenen J., Antoniou C., Fotopoulos V. (2015). Means and methods to increase plant yield. EP 15186304.0, EP 16190088.1
11. **Inzé D.**, Nelissen H., Dubois M. (2014). Mutant alleles for yield increase. EP 14187614.4
12. **Inzé D.**, Pauwels L., Goossens A., Gonzalez N. (2014). Means and methods to increase plant yield. EP 14176109.8

13. **Inzé D.**, Nelissen H., Sun X., Claeys H. (2013). Means and methods for yield performance in plants. PCT/EP2014/061438
14. Skiryacs A., **Inzé D.**, Dubois M. (2012). Methods and means to produce abiotic stress tolerant plants. WO/2013/037959
15. **Inzé D.**, Gonzalez N., De Bodt S., Saeys Y. (2012). Means and methods for the determination of prediction models associated with a phenotype. WO/2012/175736
16. Skiryacs A., **Inzé D.**, Claeys H., Coppens F. (2012). Methods and means to produce abiotic stress tolerant plants. EP2699683, WO/2012/143545
17. Abeel T., Vandepoele K., **Inzé D.**, Verkest A. and De Jaeger G. (2012). Tandem chromatin affinity purification in plant cell suspension cultures for identification of transcription factor target genes. EP 12179185,09 PCT/EP2013/065695, WO/2014/019928 A1
18. Spartz A., **Inzé D.**, Gonzalez N., Gray W. (2011). Growth promoting fusion proteins. EP 2569329A1, WO/2011/141499, US-2013-0117891-A1
19. Verkest A., **Inzé D.**, De Jaeger G. (2011). Complexes of AN3-interacting proteins and their use for plant growth promotion. EP2539455, WO/2011/101472
20. Goossens A., **Inzé D.**, Cusidó R., Palazón J. and Onrubia-Ibañez M. (2010). Genes and uses thereof to modulate taxane biosynthesis. 61/063,851.
21. Van Leene J., Gonzalez N., **Inzé D.**, De Jaeger G., Witters E., Van Onckelen H. (2009). Screening method for identifying genes involved in plant cell cycle. EP2373797A1, EP2527451A1, WO/2010/066849
22. Hemerly A., **Inzé D.**, De Jaeger G., Beemster G., Van Leene J., Eloy N., Ferreira P.C.G. (2009). Plant growth promoting protein complex. EP2391642A2, WO/2010/063833
23. De Rybel B., **Inzé D.**, Audenaert D., Beeckman T. (2007). Activators of lateral root formation. WO/2008/062035, US-8486863-B2
24. De Rybel B., **Inzé D.**, Audenaert D., Russinova E., Beeckman T. (2007). Non-steroidal brassinosteroid mimetic. EP2086322B1, WO/2008/049729, US-8273775-B2
25. De Meutter J., Mironov V., Reuzeau C., **Inzé D.**, Vlieghe K., De Veylder L. (2005). Plants having improved growth characteristics and a method for making the same. WO/2007/051866, WO/2007/054522
26. Goossens A., Rischer H., **Inzé D.**, Oresic M., Oksman-Caldentey K.-M. (2005). Means and methods to enhance the production of vinblastine and vincristine in *Catharanthus roseus*. WO/2007/031556
27. Van Lijsebettens M., **Inzé D.**, Nelissen H., Delphine F., De Block M. (2005). Use of elongator genes to enhance vigour and stress tolerance in eukaryotic cells. WO/2006/114434
28. Cnops G., Fleury D., **Inzé D.**, Van Lijsebettens M. (2005). Modulation of plant cell number. EP1789565B1, WO/2006/027310, US-7829758-B2
29. **Inzé D.**, Van Breusegem F., Van De Cotte B. and Vercammen D. (2004). A novel class of metacaspases. EP1601764B1, WO/2004/081168.
30. De Veylder L., **Inzé D.**, De Schutter K. (2004). Method to increase plant biomass in stress conditions. WO/2006/063963
31. **Inzé D.**, Beemster G., West G. (2003). Method to increase salt tolerance in plants.
32. **Inzé D.**, Van Breusegem F., Vandenabeele S. (2003). Genes regulated by hydrogen peroxide stress. PCT/EP2004/050398 (WO 2004087952)
33. **Inzé D.**, Goossens A., Oksman-Caldentey K.-M., Häkkinen S., Laakso I. (2002). Genes and uses thereof to modulate secondary metabolite biosynthesis. WO/2003/097790
34. Van Lijsebettens M., Nelissen H., De Veylder L., Clarke J., **Inzé D.** (2002). Plant growth modulation. WO03066852

35. **Inzé D.**, Goossens A. (2001). The use of genes encoding membrane transporter pumps to stimulate the production of secondary metabolites in biological cells. WO/2002/083888
36. Vranová E., Van Breusegem F., **Inzé D.**, Van Camp W. (2001). Plant stress regulated genes. WO/2003/012096
37. Van Camp W., Willekens H., Van Breusegem F., **Inzé D.** (1998). Methods and means for inducing tolerance to stress. WO/2000/006476
38. **Inzé D.**, Gheysen G., Mironov V., Van Camp W., Sanz Molinero A. I., Terras F. (1998). Plant pathogen inducible control sequences operably linked to cell cycle genes. WO/1999/066055
39. **Inzé D.**, Van Montagu M., Galili G., Shaul O., Hilgemann D. (1998). DNA coding for a Mg^{2+}/H^{+} or Zn^{2+}/H^{+} exchanger and transgenic plants expressing same. WO/1999/061616
40. Burssens S., Verbruggen N., **Inzé D.**, Beeckman T. (1997). Stress tolerant plants. WO/1999/054489
41. **Inzé D.**, de Almeida J., Landrieu I., De Veylder L. (1997). A mitogenic cyclin of *Arabidopsis thaliana* and the use in plant cell growth control. WO/1999/022002
42. **Inzé D.**, de Almeida J., Landrieu I., De Veylder L. (1997). Cyclin-dependent kinase inhibitors of *Arabidopsis thaliana* and their use in plant cell growth control. WO/1999/014331
43. **Inzé D.**, Segers G., De Veylder L. (1997). *Arabidopsis thaliana* protein and its use in plant cell growth control. WO/1999/013083
44. **Inzé D.**, Segers G., De Veylder L., Mironov V. (1997). *Arabidopsis thaliana* protein and its use in plant cell growth control. WO/1998/041642