

# prof. RNDr. Jana Klánová, Ph.D.

učo 27680

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## Person-Related Identification Information

- Jana Klánová

## Department

- Research Centre for Toxic Compounds in the Environment (RECETOX)

## Employment - Position

- professor

## Education and Academic Qualifications

- 2013 Full professor, Masaryk University, Faculty of Science (Environmental chemistry), 2007 Associate professor, Masaryk University, Faculty of Science (Environmental chemistry), 2004 Ph.D., Masaryk University, Faculty of Science (Environmental chemistry), 1986 RNDr., Masaryk University, Faculty of Science (Chemistry and Mathematics)

## Employment

- since 2013 Professor, Masaryk University, Faculty of Science, RECETOX, 2007 – 2013 Associate professor, Masaryk University, Faculty of Science, RECETOX, 2001–2007 Assistant professor, Masaryk University, Faculty of Science, RECETOX, 2001 – 2004 Research assistant TOCOEN, Ltd. Brno, 1998–2001 Research assistant, Masaryk University, Faculty of Science, Laboratory of Plant Molecular Physiology, 1994–1998 Teaching assistant, East Lansing Public Schools, Michigan, USA, 1987–1994 Research assistant, Brno University of Technology, Faculty of Electrical Engineering and Computer Science, Dept. of Technology, 1986–1987 Study stay, Masaryk University, Faculty of Teachers Education, Department of Chemistry

## Teaching Activities

- long-term experience with teaching at MU: Environmental analytical chemistry, Modern methods of organic pollutant analysis, Basics in environmental processes research, Good laboratory practice, Genomics and Proteomics, five years experiences with teaching in the USA, international capacity building programmes supported by GEF, UNEP, UNIDO, UNDP, RECETOX international summer schools, student supervision and mentoring

## Scientific and Research Activities

- head of the Environmental Chemistry and Modelling research programme of RECETOX, expertise in fate (transformation and transport) of chemicals in the environment, environmental and human exposure to toxic substances, their impacts and long-term effects, development of monitoring networks and population studies focused on the complex of factors influencing human health, development of sampling and analytical techniques for long-term monitoring methods chromatography and mass spectroscopy, DNA sequencing and fragment analysis, development of global monitoring networks and environmental information systems Projects

2017-2018 project coordinator of the H2020 Teaming programme (CETOCOEN EXCELLENCE) – 400 000 Eur, 2017-2021 member of the management board, work package leader, and national coordinator of the H2020 project (Joint Programme) Human Biomonitoring for Europe (HBM4EU) – 2 400 000 Eur, 2016-2020 member of the management board and work package leader of the H2020 project (ERA NET) ERA-PLANET – 700 000 Eur, 2016-2020 PI for MU, H2020 ICARUS – 390 000 Eur, 2017-2022 PI of the OP RDI project CETOCOEN PLUS, European Structural Funds – 218 mil CZK, 2017-2020 PI of the OP RDI project RECETOX RI (Large Research Infrastructures), European Structural Funds – 226 mil CZK, 2016-2019 PI of the MEYS project RECETOX RI, supporting the institutions listed in the Czech Roadmap of Large Infrastructures for Research, Development and Innovation – 90 mil CZK, 2015-2016 coordinator of the Norwegian Fund project DA VINCI - 6 mil CZK, 2012-2015 coordinator of the AMVIS - project supporting collaboration with US universities – 2 mil CZK, 2012-2016 PI of the MEYS project RECETOX RI, supporting the institutions listed in the Czech Roadmap of Large Infrastructures for Research, Development and Innovation – 35 mil CZK, 2015 executive director of the OP RDI project CETOCOEN Upgrade, European Structural Funds – 27 mil CZK, 2010-2013 executive director of the OP RDI project CETOCOEN, European Structural Funds – 544 mil CZK, principal investigator of other projects of Czech Granting Agency, Technology Agency of the Czech Republic, Ministry of Environment, Ministry of Education, principal investigator for MU of other EU projects: FP5 (2), FP6 (1), FP7 (3), Marie Curie ITN

### Internship

- 1994–1998 Teaching assistant, East Lansing Public Schools, Michigan, USA

### University Activities

- director of the RECETOX Centre, head of the Environmental Chemistry and Modelling research programme, PI of 4 projects of the European Structural and Investment Fund projects, coordinator and PI of the international projects (currently a member of the management board of 3 H2020 projects), PI of numerous national projects of the fundamental and applied research

### Activities Outside University

- leader of the GEO (Global Earth Observations) Initiative GOS4POPs (Global Observation System for POPs), member of the International Expert Group coordinating the implementation of the Global Monitoring Plan of the Stockholm Convention, Czech delegate of the H2020 Programme Committee, external evaluator of the international monitoring programmes (IADN - Integrated Atmospheric Deposition Network in the US and Canada, JOSM - Joint Oil Sands Monitoring in Canada).

### Major Publications

- VIDOVÁ, Veronika, Eliška STUHLÍKOVÁ, Markéta VRBOVÁ, Martina ALMÁŠI, Jana KLÁNOVÁ, Vojtěch THON a Zdeněk SPÁČIL. Multiplex Assay for Quantification of Acute Phase Proteins and Immunoglobulin A in Dried Blood Spots. *Journal of Proteome Research*, Washington, USA: AMER CHEMICAL SOC, 2019, roč. 18, č. 1, s. 380-391. ISSN 1535-3893. doi:10.1021/acs.jproteome.8b00657. [Full Text info](#)
- MIKEŠ, Ondřej, Markéta VRBOVÁ, Jana KLÁNOVÁ, Pavel ČUPR, Jan ŠVANCARA a Hynek PIKHART. Early-life exposure to household chemicals and wheezing in children. *Science of the Total Environment*, Amsterdam: Elsevier Science, 2019, roč. 663, May, s. 418-425. ISSN 0048-9697. doi:10.1016/j.scitotenv.2019.01.254. [URL info](#)
- FABELOVA, Lucia, Christopher A. LOFFREDO, Jana KLÁNOVÁ, Klára HILSCHEROVÁ, Milena HORVAT, Juraj TIHANYI, Denisa RICHTEROVA, L'ubica MURÍNOVÁ, Sona WIMMEROVA, Renata SISTO, Arturo MOLETI a Tomáš TRNOVEC. Environmental ototoxicants, a potential new class of chemical stressors. *Environmental Research*, SAN

DIEGO: ACADEMIC PRESS INC ELSEVIER SCIENCE, 2019, roč. 171, April, s. 378-394. ISSN 0013-9351. doi:10.1016/j.envres.2019.01.042. [URL info](#)

- JISKROVA, Gabriela Ksinan, Alexander T. VAZSONYI, Jana KLÁNOVÁ a Ladislav DUŠEK. Sleep Quantity and Problems as Mediators of the Eveningness-Adjustment Link during Childhood and Adolescence. *Journal of Youth and Adolescence*, New York: Springer, 2019, roč. 48, č. 3, s. 620-634. ISSN 0047-2891. doi:10.1007/s10964-018-0965-8. [URL info](#)
- POZO, Karla Andrea, Victoria Antoineta GOMEZ, Mariett TORRES, Luciano VERA, Dariela NUNEZ, Patricio OYARZUN, Gonzalo MENDOZA, Bradley CLARK, Maria Cristina FOSSI, Matteo BAINI, Petra PŘIBYLOVÁ a Jana KLÁNOVÁ. Presence and characterization of microplastics in fish of commercial importance from the Biobio region in central Chile. *MARINE POLLUTION BULLETIN*, OXFORD: PERGAMON-ELSEVIER SCIENCE LTD, 2019, roč. 140, March, s. 315-319. ISSN 0025-326X. doi:10.1016/j.marpolbul.2019.01.025. [URL info](#)
- DEMIRTEPE, Hale, Lisa Emily MELYMUK, Miriam Leah DIAMOND, Lola Murielle BAJARD ÉP.ESNER, Šimon VOJTA, Roman PROKEŠ, Ondřej SÁŇKA, Jana KLÁNOVÁ, L'ubica MURÍNOVÁ, Denisa RICHTEROVA, Vladimira RASPLOVA a Tomáš TRNOVEC. Linking past uses of legacy SVOCs with today's indoor levels and human exposure. *Environment International*, OXFORD: PERGAMON-ELSEVIER SCIENCE LTD, 2019, roč. 127, June, s. 653-663. ISSN 0160-4120. doi:10.1016/j.envint.2019.04.001. [URL info](#)
- SHARMA, Brij Mohan, Jitka BEČANOVÁ, Martin SCHERINGER, Anežka SHARMA, Girija K. BHARAT, Paul G. WHITEHEAD, Jana KLÁNOVÁ a Luca NIZZETTO. Health and ecological risk assessment of emerging contaminants (pharmaceuticals, personal care products, and artificial sweeteners) in surface and groundwater (drinking water) in the Ganges River Basin, India. *Science of the Total Environment*, Amsterdam: Elsevier Science, 2019, roč. 646, January, s. 1459-1467. ISSN 0048-9697. doi:10.1016/j.scitotenv.2018.07.235. [URL info](#)
- TOMBESI, Norma, Karla Andrea POZO, Andres ARIAS, Monica ALVAREZ, Petra PŘIBYLOVÁ, Ondřej AUDY a Jana KLÁNOVÁ. Records of organochlorine pesticides in soils and sediments on the southwest of Buenos Aires Province, Argentina. *Environmental Earth Sciences*, Berlin/Heidelberg: Springer, 2018, roč. 77, č. 11, s. 1-11. ISSN 1866-6280. doi:10.1007/s12665-018-7582-4. [URL info](#)
- KALINA, Jiří, Martin SCHERINGER, Jana BORŮVKOVÁ, Petr KUKUČKA, Petra PŘIBYLOVÁ, Ondřej SÁŇKA, Lisa Emily MELYMUK, Milan VANA a Jana KLÁNOVÁ. Characterizing Spatial Diversity of Passive Sampling Sites for Measuring Levels and Trends of Semivolatile Organic Chemicals. *ENVIRONMENTAL SCIENCE & TECHNOLOGY*, WASHINGTON: AMER CHEMICAL SOC, 2018, roč. 52, č. 18, s. 10599-10608. ISSN 0013-936X. doi:10.1021/acs.est.8b03414. [URL info](#)
- DEGRENDELE, Celine, Jake WILSON, Petr KUKUČKA, Jana KLÁNOVÁ a Gerhard LAMMEL. Are atmospheric PBDE levels declining in central Europe? Examination of the seasonal and semi-long-term variations, gas-particle partitioning and implications for long-range atmospheric transport. *Atmospheric Chemistry and Physics*, Göttingen, Germany: European Geosciences Union, 2018, roč. 18, č. 17, s. 12877-12890. ISSN 1680-7316. doi:10.5194/acp-18-12877-2018. [URL info](#)
- SHARMA, Brij Mohan, Lisa Emily MELYMUK, Girija K. BHARAT, Petra PŘIBYLOVÁ, Ondřej SÁŇKA, Jana KLÁNOVÁ a Luca NIZZETTO. Spatial gradients of polycyclic aromatic hydrocarbons (PAHs) in air, atmospheric deposition, and surface water of the Ganges River basin. *Science of the Total Environment*, Amsterdam: Elsevier Science, 2018, roč. 627, June, s. 1495-1504. ISSN 0048-9697. doi:10.1016/j.scitotenv.2018.01.262. [URL info](#)
- JÍLKOVÁ, Simona Rozárka, Lisa Emily MELYMUK, Šimon VOJTA, Martina VYKOUKALOVÁ, Pernilla BOHLIN-NIZZETTO a Jana KLÁNOVÁ. Small-scale spatial variability of flame retardants in indoor dust and implications for dust sampling. *Chemosphere*, OXFORD: PERGAMON-ELSEVIER SCIENCE LTD, 2018, roč. 206, September, s. 132-141. ISSN 0045-6535. doi:10.1016/j.chemosphere.2018.04.146. [URL info](#)
- AUDY, Ondřej, Lisa Emily MELYMUK, Marta VENIER, Šimon VOJTA, Jitka BEČANOVÁ, Kevin ROMANAK, Martina VYKOUKALOVÁ, Roman PROKEŠ, Petr KUKUČKA, Miriam Leah DIAMOND a Jana KLÁNOVÁ. PCBs and organochlorine pesticides in indoor environments - A comparison of indoor contamination in Canada and Czech Republic. *Chemosphere*, OXFORD: PERGAMON-ELSEVIER SCIENCE LTD, 2018, roč. 206, September, s. 622-631. ISSN 0045-6535. doi:10.1016/j.chemosphere.2018.05.016. [URL info](#)
- KARÁSKOVÁ, Pavlína, Garry Paul CODLING, Lisa Emily MELYMUK a Jana KLÁNOVÁ. A critical assessment of passive air samplers for per- and polyfluoroalkyl

- substances. *Atmospheric Environment*, OXFORD (ENGLAND): Pergamon Press, 2018, roč. 185, July, s. 186-195. ISSN 1352-2310. doi:10.1016/j.atmosenv.2018.05.030. [URL info](#)
- ALIYEVA, Gulchohra, Carrie Amber SINNOTT-CLARK, Ondřej AUDY, Lucia ŠKRDĹIKOVÁ, Petr KUKUČKA, Jana KLÁNOVÁ a Crispin HALSALL. A contemporary assessment of polybrominated diphenyl ethers (PBDE) in the ambient air and soil of Azerbaijan. *Environmental Science and Pollution Research*, Heidelberg: Springer Heidelberg, 2018, roč. 25, č. 32, s. 31863-31873. ISSN 0944-1344. doi:10.1007/s11356-017-0573-2. [URL info](#)
  - OKONSKI, Krzysztof, Lisa Emily MELYMUK, Jiří KOHOUTEK a Jana KLÁNOVÁ. Hexabromocyclododecane: concentrations and isomer profiles from sources to environmental sinks. *Environmental Science and Pollution Research*, Heidelberg: Springer Heidelberg, 2018, roč. 25, č. 36, s. 36624-36635. ISSN 0944-1344. doi:10.1007/s11356-018-3381-4. [URL info](#)
  - VOJTA, Šimon, Jitka BEČANOVÁ, Lisa Emily MELYMUK, Klára KOMPRDOVÁ, Jiří KOHOUTEK, Petr KUKUČKA a Jana KLÁNOVÁ. Screening for halogenated flame retardants in European consumer products, building materials and wastes. *Chemosphere*, OXFORD: PERGAMON-ELSEVIER SCIENCE LTD, 2017, roč. 168, February 2017, s. 457-466. ISSN 0045-6535. doi:10.1016/j.chemosphere.2016.11.032. [URL info](#)
  - TOMBESI, Norma, Karla Andrea POZO, Monica ALVAREZ, Petra PŘIBYLOVÁ, Petr KUKUČKA, Ondřej AUDY a Jana KLÁNOVÁ. Tracking polychlorinated biphenyls (PCBs) and polybrominated diphenyl ethers (PBDEs) in sediments and soils from the southwest of Buenos Aires Province, Argentina (South eastern part of the GRULAC region). *Science of the Total Environment*, AMSTERDAM: Elsevier, 2017, roč. 575, January, s. 1470-1476. ISSN 0048-9697. doi:10.1016/j.scitotenv.2016.10.013. [URL info](#)
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  - FIALA, Adam, Jan ŠVANCARA, Jana KLÁNOVÁ a Tomáš KAŠPÁREK. Sociodemographic and delivery risk factors for developing postpartum depression in a sample of 3233 mothers from the Czech ELSPAC study. *BMC Psychiatry*, London: BioMed Central, 2017, roč. 17, č. 104, s. 1-10. ISSN 1471-244X. doi:10.1186/s12888-017-1261-y. [URL info](#)
  - KALINA, Jiří, Martin SCHERINGER, Jana BORŮVKOVÁ, Petr KUKUČKA, Petra PŘIBYLOVÁ, Pernilla BOHLIN-NIZZETTO a Jana KLÁNOVÁ. Passive Air Samplers As a Tool for Assessing Long-Term Trends in Atmospheric Concentrations of Semivolatile Organic Compounds. *ENVIRONMENTAL SCIENCE AND TECHNOLOGY*, WASHINGTON: AMER CHEMICAL SOC, 2017, roč. 51, č. 12, s. 7047-7054. ISSN 0013-936X. doi:10.1021/acs.est.7b02319. [URL info](#)
  - PAVLOVÁ, Tereza, Veronika VIDOVÁ, Julie BIENERTO VÁ VAŠKŮ, Petr JANKŮ, Martina ALMÁŠI, Jana KLÁNOVÁ a Zdeněk SPÁČIL. Urinary intermediates of tryptophan as indicators of the gut microbial metabolism. *Analytica Chimica Acta*, Amsterdam: Elsevier Science, 2017, roč. 987, September, s. 72-80. ISSN 0003-2670. doi:10.1016/j.aca.2017.08.022. [URL info](#)
  - HOLT, Eva Mary Suzanne, Ondřej AUDY, Petra BOOIJ, Lisa Emily MELYMUK, Roman PROKEŠ a Jana KLÁNOVÁ. Organochlorine pesticides in the indoor air of a theatre and museum in the Czech Republic: Inhalation exposure and cancer risk. *Science of the Total Environment*, AMSTERDAM: Elsevier Science, 2017, roč. 609, December, s. 598-606. ISSN 0048-9697. doi:10.1016/j.scitotenv.2017.07.203. [URL info](#)
  - BARÁKOVÁ, Daniela, Jana KLÁNOVÁ, Mária CHROPEŇOVÁ a Pavel ČUPR. Towards improved comparability of studies addressing atmospheric concentrations of semivolatile organic compounds based on their sequestration in pine needles. *Chemosphere*, OXFORD: PERGAMON-ELSEVIER SCIENCE, 2017, roč. 185, October, s. 47-55. ISSN 0045-6535. doi:10.1016/j.chemosphere.2017.06.121. [URL info](#)
  - VOJTA, Šimon, Lisa Emily MELYMUK a Jana KLÁNOVÁ. Changes in Flame Retardant and Legacy Contaminant Concentrations in Indoor Air during Building Construction, Furnishing, and Use. *ENVIRONMENTAL SCIENCE AND TECHNOLOGY*, WASHINGTON: AMER CHEMICAL SOC, 2017, roč. 51, č. 20, s. 11891-11899. ISSN 0013-936X. doi:10.1021/acs.est.7b03245. [URL info](#)
  - KOSIOR, Grzegorz, Petra PŘIBYLOVÁ, Lenka VAŇKOVÁ, Petr KUKUČKA, Ondřej AUDY, Jana KLÁNOVÁ, Aleksandra SAMECKA-CYMERMAN, Lucyna MROZ a Alexander J.



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- POZO, Karla Andrea, German OYOLA, Victor H. ESTELLANO, Tom HARNER, Anny RUDOLPH, Petra PŘIBYLOVÁ, Petr KUKUČKA, Ondřej AUDY, Jana KLÁNOVÁ, America METZDORFF a Silvano FOCARDI. Persistent Organic Pollutants (POPs) in the atmosphere of three Chilean cities using passive air samplers. *Science of the Total Environment*, AMSTERDAM: ELSEVIER SCIENCE BV, 2017, roč. 586, May, s. 107-114. ISSN 0048-9697. doi:10.1016/j.scitotenv.2016.11.054. [URL info](#)
- POZO, Karla Andrea, Santosh Kumar SARKAR, Victor H. ESTELLANO, Soumita MITRA, Ondřej AUDY, Petr KUKUČKA, Petra PŘIBYLOVÁ, Jana KLÁNOVÁ a Simonetta CORSOLINI. Passive air sampling of persistent organic pollutants (POPs) and emerging compounds in Kolkata megacity and rural mangrove wetland Sundarban in India: An approach to regional monitoring. *Chemosphere*, OXFORD: PERGAMON-ELSEVIER SCIENCE LTD, 2017, roč. 168, February, s. 1430-1438. ISSN 0045-6535. doi:10.1016/j.chemosphere.2016.09.055. [URL info](#)
- ESTELLANO SCHULZE, Victor Hugo, Karla Andrea POZO, Petra PŘIBYLOVÁ, Jana KLÁNOVÁ, Ondřej AUDY a Silvano FOCARDI. Assessment of seasonal variations in persistent organic pollutants across the region of Tuscany using passive air samplers. *Environmental Pollution*, OXFORD, ENGLAND: ELSEVIER SCI LTD, 2017, roč. 222, March, s. 609-616. ISSN 0269-7491. doi:10.1016/j.envpol.2016.08.092. [URL info](#)
- VYKOUKALOVÁ, Martina, Marta VENIER, Šimon VOJTA, Lisa Emily MELYMUK, Jitka BEČANOVÁ, Kevin ROMANAK, Roman PROKEŠ, Joseph O. OKEME, Amandeep SAINI, Miriam L. DIAMOND a Jana KLÁNOVÁ. Organophosphate esters flame retardants in the indoor environment. *Environment International*, OXFORD (ENGLAND): PERGAMON-ELSEVIER SCIENCE LTD, 2017, roč. 106, September, s. 97-104. ISSN 0160-4120. doi:10.1016/j.envint.2017.05.020. [URL info](#)
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