

Special Databases

Informační zdroje v zoologii

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Web of Science

- produced by Institute of Scientific Information
- contains millions of resources from all fields of science
- from 1950 in electronic form
- includes only selected journals
- annually 12 000 000 referencies are added
- from 16 000 resources (journals, books a proceedings) of which 8 700 are journals
- most references include abstract, address and list of citations in other papers

- founded in 1962
- Eugene Garfield with colleagues starts two pojects:
- database of patents in chemistry
- database of published papers in genetics
- Science Citation Index (SCI) the most complete citation index of scientific literature (150 areas)
- 150 journals includes 50% of all citations and 2 000 journals includes 85% of citations
- included are journals with periodicity, in English, reviewed, with local or international impact

Journal of Citation Report

- published since 1975
- provides detailed information on journals including indices
- since 1960 Impact Factor (IF) is calculated
- shows frequency of an average citation of a paper in other journals
- number of current citations to papers from last 2 years / total number of papers published during last 2 years
- half-life (HL)
- number of years for a journal, for which there are more than 50% of all citations in the current year

- IF of many journals fluctuates
- journals of small subjects (entomology, mathematics) have low IF but high HL than large subjects (biotechnology, genetics)
- the highest IF has review journals
- IF indicates which subjects are becoming popular
- comparison of journals' IF within a subject is recommended



Other service

- **Highly-Cited**: Top 10 of the most cited scientists/teams for each subject
- Index to Organism Names: currently only animals are included
- Biology Browser: database of resources
- Science Watch: interviews on current research









Homework

- 1. Find which of 10 references you found previously are included in the Web of Science.
- 2. Find Impact factor (IF) and the half-life (HL) of these journals.