

## Curriculum vitae of Zbyněk Tonar (Prof. MUDr. Mgr., Ph.D.)

### Personal details

- Address: Department of Histology and Embryology, Faculty of Medicine in Pilsen, Charles University in Prague, Alej Svobody 76, 32300 Pilsen, Czech Republic,
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### Graduated

- 1994-1999 Faculty of Education, University of West Bohemia in Pilsen, Biology and Chemistry (Mgr.)  
1998-2004 Faculty of Medicine in Pilsen, Charles University in Prague, General Medicine (MUDr.)  
2004-2007 Faculty of Medicine in Pilsen, Charles University in Prague, Anatomy, histology, embryology (Ph.D.)

### Further education

- 2005 The EMBO Practical Course on Electron Microscopy and Stereology in Cell Biology. Institute of Parasitology, Academy of Sciences of the Czech Republic, tutor Dr. J. Lucocq

### Academic career and positions

- since 1998 Technician, Research and teaching assistant (2000), Assistant professor (2002), Associate professor (2011), Professor (2019), Department Head (since 2022) Department of Histology and Embryology, Faculty of Medicine in Pilsen, Charles University in Prague  
2000-2022 Researcher, Modelling of biomechanical systems and processes, New Technologies Research Centre,, (2012) Senior researcher, New Technologies for the Information Society, European Centre of Excellence, Faculty of Applied Sciences, University of West Bohemia in Pilsen  
2004-2011 Researcher, Laboratory for Atherosclerosis Research, Institute for Clinical and Experimental Medicine, Prague  
2012-2017 Head of the Laboratory of Microscopy and Stereology, European Centre of Excellence NTIS –New Technologies for the Information Society, Faculty of Applied Sciences, University of West Bohemia in Pilsen, Czech Republic.  
2012-2023 Head of the Laboratory of Quantitative Histology, Biomedical Centre, Faculty of Medicine in Pilsen, Charles University, Czech Republic

### Language

- English Certificate in Advanced English, University of Cambridge ESOL Examinations, Pass. Grade B  
German Österreichisches Sprachdiplom C1 Oberstufe Deutsch, sehr gut bestanden (90/100)

### Academic prizes and recognitions

- June 2000 – Award "Talent 1999" from the Minister of Education of Czech Republic for the publications in the field of comparative embryology.
- February 2006 – Prize of prof. Reinis awarded by the Czech Angiological Society of Czech Medical Association of J.E. Purkyne for papers published on angiology in 2005 by authors of age under 35
- February 2008 – awarded 1st prize in the PhD thesis competition of Czechoslovak Microscopical Society (the best thesis based on microscopic techniques)
- November 2017 – Charles University Rector's Award for the Textbook of the year in Medicine and Pharmacy – Memorix Histologie (in Czech)
- February 2019 – Siemens Czech Republic – Werner von Siemens Award 2018 in the category "The Best Teacher"
- November 2023 – Charles University, Arnošt z Pardubic Prize for outstanding achievement in educational activities at Charles University: Innovation of embryology teaching for medical faculties according to the principles of "evidence-based teaching" and for compatibility with 4EU+ Shared Courses

### Memberships

- Czech Anatomical Society, committee member, Czechoslovak Microscopical Society; Czech Medical Chamber
- Scientific Council of the Faculty of Medicine in Pilsen, Charles University
- Scientific Council of the Faculty of Education, University of West Bohemia in Pilsen
- Paedagogium, Charles University: 2023-present
- Academic Senate of the Faculty of Medicine in Pilsen, Charles University: 2013-present

### International experience

- Over 12 months as a visiting researcher, Institute of Histology and Embryology, Institute of Anatomy, Department of Pathobiology, University of Veterinary Medicine in Vienna, Austria (during 2006-2019)
- Member of the Advisory Board, European Master in Comparative Morphology - Erasmus Mundus study program coordinated by a consortium of five European universities (University of Antwerp; Belgium; Justus-Liebig University of Giessen, Germany; University of Veterinary Medicine, Vienna, Austria; University of Life Sciences, Poznan, Poland; Federico II University of Naples, Italy) (2014-2018)

## Teaching

- Undergraduate courses in Histology and Embryology at the Faculty of Medicine in Pilsen
- Core elective courses: Applied Histology, Applied Embryology, Congenital and Developmental Defects
- Summer School of Experimental Surgery, Pilsen, Czech Republic, 2014-2024: Histological Methods in Experiments
- The Toxicology Course Vienna, University of Vienna, Austria, 2021, 2024. Module 11 - Introduction to Reproductive Physiology. General Embryology I+II. General Embryology II. Overview of organogenesis. Developmental defects.
- Courses of the Centre for Lifelong Learning of Charles University: Evidence-Based Undergraduate Teaching; Course and Course Design using ABC Learning Design; Contract Research - Examples and Experiences;
- Supervisor of Ph.D. students: 9 successfully defended, 2 are studying; Supervisor of two other successful Ph.D. graduates
- Thesis supervisor at the University of Veterinary Medicine in Vienna, International study programme European Master in Comparative Morphology, defended with the highest possible grade
- Doctoral Studies Board, Charles University, Charles University, Charles University, Pilsen and 2nd Faculty of Medicine, Anatomy, Histology and Embryology - since 2012 member, 2022-2024 guarantor
- Doctoral Studies Board in Biology and Pathology of the Cell, Charles University, 1st Faculty of Medicine, 2nd Faculty of Medicine and 3rd Faculty of Medicine, Charles University - member
- Doctoral Studies Board in Biomedical Sciences, Masaryk University in Brno - Morphology of Cells and Tissues – member

## Key research activities

- Histology of vascular wall
- Quantitative histology and design-based stereology of microscopic objects
- Healing of tissues and organs supported by biomaterials and tissue scaffolds
- Analysis of microvessels in histological sections
- Histological evaluation of experiments in animal models
- Quantitative microscopy
- Developmental biology and embryology

## Publication activity and clickable records in scientific databases:

- 11 chapters in monographs, 93 articles in journals with IF; 80 other papers without IF
- 135 papers listed in the Web of Science Core Collection database
- 1 patent, 1 certified method, 6 invited lectures, 15 teaching texts, 2 translations.
- Web of Science H-index=21; 1150 citations without self-citations
- ORCID: <https://orcid.org/0000-0002-7200-9894>
- Scopus Author ID: 24279165900; <https://www.scopus.com/authid/detail.uri?authorId=24279165900>
- Thomson Reuters ResearcherID: I-2728-2017
- PubMed: <https://www.ncbi.nlm.nih.gov/pubmed/?term=tonar+z>
- ResearchGate: [https://www.researchgate.net/profile/Zbynek\\_Tonar](https://www.researchgate.net/profile/Zbynek_Tonar)

## Experience in evaluation processes of scientific project proposals

- 2018-2024 – Charles University Grant Agency, Member of Panel B-Biological Sciences
- 2020-2024 – The Czech Science Foundation (GACR), Member of Panel P304 Tumor Biology, Experimental Oncology, Morphological Disciplines and Pathology

## Cooperation with industry

- Contract research at the Biomedical Center, Faculty of Medicine in Pilsen, Charles University: responsible for histological evaluation of in vivo experiments in 21 projects ordered by 8 contract partners (research institutions and commercial companies), total budget exceeding 2,000,000 CZK.

## Interests

- Sports
- Music
- More at <https://zbynektionar.cz/>