

CURRICULUM VITAE

Peter Nagy

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email: peter.v.nagy@gmail.com, nagyp@med.unideb.hu
- Date of birth:** July 12, 1971
- Place of birth:** Budapest, Hungary
- Citizenship:** Hungarian
- Biography:**
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| 1995-1998 | Ph.D. student, Dept. of Biophysics and Cell Biology, University Medical School of Debrecen, Hungary |
| 1999-2001 | research fellow, Cell-biophysics Workgroup of the Hungarian Academy of Sciences at the Dept. of Biophysics and Cell Biology, University of Debrecen, Hungary |
| 2001-2004 | postdoctoral fellow, Dept. of Molecular Biology, Max Planck Institute for Biophysical Chemistry, Göttingen, Germany |
| 2004-2005 | assistant lecturer, Dept. of Biophysics and Cell Biology, University of Debrecen, Hungary |
| 2005-2010 | assistant professor, Dept. of Biophysics and Cell Biology, University of Debrecen, Hungary |
| 2010-2015 | associate professor, Dept. of Biophysics and Cell Biology, University of Debrecen, Hungary |
| 2015- | professor, Dept. of Biophysics and Cell Biology, University of Debrecen, Hungary |
| 2018- | director, Division of Biophysics, Dept. of Biophysics and Cell Biology, University of Debrecen, Hungary |
- Education:** General Medicine 1989-95, University Medical School of Debrecen, Hungary
MD degree 1995 - *summa cum laude*
- Scientific degree:**
- Ph.D. in biology, University Medical School of Debrecen, Hungary, 1999, *summa cum laude*
 - DSc (Doctor of Science), Section of Biological Sciences, Hungarian Academy of Sciences, 2013

Linguistic skills: advanced level state examination in English (1988)
 elementary level state examination in Russian (1987)
 intermediate level knowledge of German

Prizes, scholarships:

Prize	Awarding institution	Year
Pro Scientia prize	National Council of the Students' Scientific Societies, Hungary	1995
Weszprémi prize	University Medical School of Debrecen	1995
Young Researcher Award	Hungarian Biophysical Society	1999
János Bolyai Research Scholarship	Hungarian Academy of Sciences	2000
"With knowledge for the Advancement of Hungary"	National Council of the Students' Scientific Societies, Hungary	2001
Young Fluorescence Investigator Award	Biophysical Society	2011

Number of peer-reviewed papers: 67

Cumulative impact factor: 259.437

Number of citations: 5159 (Google Scholar)

h-index: 32

Study trips:

Date and duration	Host institute	Topic
1993 (3 months)	Dept. of Biochemistry, Catholic University of Nijmegen, The Netherlands; host: Prof. J. De Pont	IP ₃ -induced calcium responses in pancreatic acinar cells
1996 (4 months)	Division of Molecular Cytometry, Univ. of California, San Francisco, USA; host: Burt Feuerstein	cell surface distribution of ErbB2 studied by FRET microscopy
1998 (4 months)	Dept. of Molecular Biology, Max Planck Institute for Biophysical Chemistry, Göttingen, Germany; host: Thomas Jovin	investigation of the cell surface association of ErbB2 and ErbB1 by scanning near-field optical microscopy
2000 (2 months)	Digital Microscopic Imaging Group, Genome Sciences Department, Lawrence Berkeley National Laboratory, Berkeley, USA; host: Stephen Lockett	small and large-scale association of ErbB2, ErbB3 and lipid rafts investigated by confocal microscopy
2009 (8 months)	Laboratory for Cellular Dynamics, Max Planck Institute for Biophysical Chemistry, Göttingen, Germany; host: Thomas Jovin	quantitative analysis of the clustering of ErbB1 and ErbB2 using N&B (number and brightness) analysis

Scientific interest:

- advanced and quantitative flow cytometric measurements, digital image processing
- fluorescence resonance energy transfer (FRET)
- near-field scanning optical microscopy, atomic force microscopy, confocal laser scanning microscopy, N&B (number and brightness) analysis
- association of membrane proteins, clustering of ErbB proteins and its role in the pathogenesis of breast cancer
- resistance of breast cancer to receptor-oriented therapy; the role of epitope masking mediated by MUC-4 and hyaluronan in trastuzumab (Herceptin) resistance
- RNA interference

Educational activity:

- I take part in the education of medical students in biophysics from 1991 and in cell biology from 1997 by giving lectures, seminars and holding laboratory practicals; I am the co-author of several university textbooks
- I take part in supervising undergraduate student researchers. Outstanding achievements:
 - a. László Balogh (National Conference of the Students' Scientific Societies, 1st prize, 1999)
 - b. Elza Friedländer (National Conference of the Students' Scientific Societies, 1st prize, 2005; Pro Scientia prize, 2005)
 - c. Tamás Kovács (Weszprémi prize, 2010)
 - d. Anna Király (National Conference of the Students' Scientific Societies, 2nd prize, 2013)
- I am a core member of the Molecular Medicine doctoral school at the University of Debrecen, Hungary. Number of PhD students having received their degree: 2
- I wrote the chapter "Cytoplasmic membrane systems and organelles, intracellular transport processes" in the book "Cell biology (editor: Gábor Szabó, Medicina, Budapest, 2004, 2009)
- I coordinated the scientific work of medical students at the Medical Faculty of the University of Debrecen as secretary of the Council of the Students' Scientific Society between 1999-2001
- Study adviser (organizing education for the Hungarian and English language courses at the University of Debrecen): biophysics (2004-2009), biostatistics (2010-2018)

Scientific organizational work:

- I have been the president of the Cell Analysis Section of the Hungarian Biophysical Society since 2011.
- I am a member of the editorial board of the journals listed below:
 - Scientific Reports (Nature Publishing Group, <http://www.nature.com/srep/about/editorial-board>)
 - Chemical Biology specialty section of Frontiers in Chemistry and Frontiers in Molecular Biosciences (<http://journal.frontiersin.org/journal/all/section/chemical-biology/search?query=nagy#editors>)
- I regularly review manuscripts for J. Photochem. Photobiol, Cytometry, Molecular Cancer and International Journal of Cancer.
- I am a member of the Council of Medical and Biological Sciences, National Research, Development and Innovation Office, Hungary, and I was a member of the molecular biology (MOLBI) review panel of the same institution.
- I am regularly invited to review Marie Curie applications.

International collaborations:

- Biophysics Group, Institute of Applied Physics, Technical University of Vienna, Vienna, Austria (Gerhard Schütz)
- Laboratory for Cellular Dynamics, Max Planck Institute for Biophysical Chemistry, Göttingen, Germany (Thomas Jovin)
- Laboratory of Cancer Biology, Institute of Medical Technology, Tampere University, Tampere, Finland (Jorma Isola)

Membership:

European Association for Cancer Research, Biophysical Society, Hungarian Biophysical Society, International Society for Advancement of Cytometry