
Lubomír Tomáška

*August 5, 1966



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ResearcherID: I-3071-2014

GoogleScholar: <https://scholar.google.sk/citations?user=Un79e18AAAAJ&hl=sk>

Education & Training:

- 1989 M.Sc., Genetics, Comenius University in Bratislava [supervisor: Ladislav Kováč]
 - 1990-1993 Cornell University, Department of Biochemistry, Ithaca, New York, USA [PI: Efraim Racker, David Shalloway]
 - 1994 PhD., Genetics, Comenius University in Bratislava [supervisors: Ladislav Kováč, Daniel Vlček,]
 - 1994, 1995 2 months visits, Institut Curie, Paris-Orsay [PI: Hiroshi Fukuhara]
 - 2001 Clusius laboratory, Leiden University, The Netherlands [PI: Yde H. Steensma]
 - 1999-2015 1-3 months visits, Lineberger Comprehensive Cancer Center, University of North Carolina at Chapel Hill, USA [PI: Jack D. Griffith]
 - 2006 D.Sc. [DrSc.], Molecular biology
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Academic positions:

all at Department of Genetics, Faculty of Natural Sciences, Comenius University in Bratislava

- 1994-1998 Assistant Professor
 - 1998-2008 Associate Professor
 - 2008-present Professor
 - 2004-present Head of the Department
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Publications:

- Peer-reviewed journals: ResearcherID I-3071-2014
 - All publications <http://www.biocenter.sk/ltpublics.html>
 - Essays [in Slovak] <http://www.biocenter.sk/ltessays.html>
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Research grants:

Principal (or co-principal) investigator of the projects sponsored by Fogarty International Research Collaboration Award; UNESCO-ROSTE, Slovak Research and Development Agency (APVV); Slovak Grant Agency (VEGA), Slovak Grant Agency KEGA, Open Society Fund, Comenius University in Bratislava, International Research Grant Program of University Complutense Madrid and "Dubček Department"

List of all grants: <http://www.biocenter.sk/ltprojects.html>

Editorial activities:

- 2005-present Member of the Editorial board, *Current Genetics* (Springer-Verlag)
- 2002-2012 Member of the Editorial board, *FEMS Yeast Research* (Oxford Academic)
- 2012-2014 Academic Editor, *PeerJ*

2012-present Senior editor, *FEMS Yeast Research* (Oxford Academic)

Reviewer activities: Ad hoc reviewer for peer-reviewed international journals including: *BMC Bioinformatics, BMC Biotechnology, BMC Medical Education, Cell Cycle, Cellular and Molecular Life Sciences, Communications Biology, Current Genetics, Environmental Microbiology, FEBS Letters, FEMS Immunology and Medical Microbiology, FEMS Yeast Research, Frontiers in Genetics, Genome Integrity, Mitochondrion, Mycoses, Nucleic Acids Research, PLoS Genetics, PLoS ONE, Trends in Biochemical Sciences.*
Reviewer of the grants from Slovak Grant Agency VEGA, Slovak Research and Development Agency (APVV), Grant Agency of the Czech Republic, Agence Nationale de la Recherche (France)

2005-present Expert evaluator for projects within the framework of Marie Curie Sklodowska Actions, including International Training networks and Individual Fellowships

Memberships:

1998-present Gregor Mendel Genetic Society
2003-present Member of the Finance and Policy Committee of the International Conferences on Yeast Genetics and Molecular Biology
2004-present Genetic Society of America
2005-2016 American Society for Biochemistry and Molecular Biology
2011-2021 Member of the Slovak Commission for Awarding Scientific Degrees (SKVH) of the Ministry of Education, Science, Research and Sport of the Slovak Republic
2021- Member of the Slovak learned society

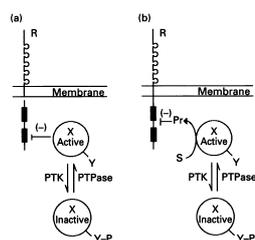
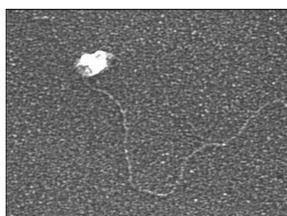
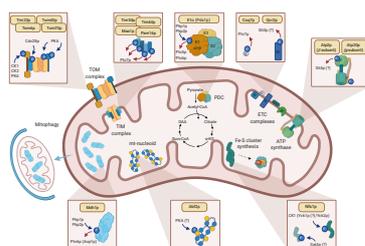
Fellowships and awards:

1994 Stipend of the Ministère de l'Education Nationale, de l'Enseignement Supérieur, de la Recherche et de l'Insertion Professionnelle de la République Française
1995 FEBS Short term Fellowship
1999 Award of the Czechoslovak Microbiological Society for Junior Czech and Slovak Microbiologist
2001 NATO Science Fellowship
2001, 2006 Fogarty International Research Collaboration Award

Research interests: **Telomeres, nucleoprotein structures responsible for protecting ends of linear DNA molecules.** Elucidation of telomerase-



independent mechanisms of maintenance of the termini of linear chromosomes; comparative analysis of telomeres and telomerase RNA in fungi; elucidation of the structural features of telomeric sequences affecting their functions; origin and evolution of telomeres. [e.g., Tomáška et al. (2000). *Nucleic Acids Research* 28: 4479-4487; Tomáška et al. (2004). *Journal of Biological Chemistry* 279: 50764-50772; Gunišová et al. (2009). *RNA* 15: 546-559; Tomáška et al. (2009). *Nature Structural and Molecular Biology* 16: 1010-1016; Kramara et al. (2010). *Journal of Biological Chemistry* 285: 38078-38092; Višacká et al. (2012). *Journal of Biological Chemistry* 287: 32206-32215; Gajarský et al. (2017). *Journal of American Chemical Society* 139: 3591-3594; Tomáška et al. (2020). *DNA Repair* 94: 102901; Juríková et al. (2020). *Journal of Biological Chemistry* 295: 8958-8971; Červenák et al. (2021). *Genome Biology & Evolution* 13: evaa268]



Nucleo-mitochondrial communication within the eukaryotic cell.

Identification of the link between regulation of ion homeostasis and mitochondrial dynamics and morphology; characterization of the role of protein phosphorylation in regulation of mitochondrial functions; comprehensive characterization of mitochondrial succinylome.

[e.g., Tomáška (2000). *Gene* 255, 59-64; Kucejová et al. (2005). *Genetics* 171: 517-526; Jakúbková et al. (2016). *PLoS One* 11: e0164175; Frankovský et al. (2021). *Mitochondrion* 57: 148-162; Frankovský et al. (2021). *Journal of Biological Chemistry* 297: 101155].

Maintenance of mitochondrial genome. Discovery of the protein protecting the ends of linear mitochondrial genome in yeasts; identification and biochemical characterization of novel proteins involved in compaction and maintenance of mitochondrial genomes in several yeast species.

[e.g., Tomáška et al. (1997). *Journal of Biological Chemistry* 272: 3049-3056; Tomáška et al. (2001). *Biological Chemistry* 382: 179-186; Tomáška et al. (2001). *Journal of Molecular Biology* 305: 61-69; Višacká et al. (2009). *Microbiology-SGM* 155: 1226-1240; Bakkaiová et al. (2014). *Eukaryotic Cell* 13: 1143-1157]

Signal transduction pathways in eukaryotic cells. Elucidation of the role of fatty acids in regulation of PDGF-dependent signal transduction in mammalian cells; regulation of PDGF signaling by protein tyrosine phosphatases in *ras*-transformed cells; regulation of yeast adenylyl cyclase by lysophospholipids and fatty acids.

[e.g., Tomáška & Resnick (1993). *Journal of Biological Chemistry* 268: 5317-5322; Tomáška & Resnick (1993). *Biochemical Journal* 293: 215-221; Resnick & Tomáška (1994). *Journal of Biological Chemistry* 269: 32336-32341.]

Pedagogical activities:
as of 2021

<http://www.biocenter.sk/ltteaching.html>
15 graduated PhD students, >50 graduated M.Sc. students, >40 graduated Bc students

Supervision or participation on a number of undergraduate courses including introductory Genetics, General Biology, Molecular Biology of the Cell, Frontiers in Genetics and Molecular Biology.

Pedagogical interests:

Current and future challenges of higher education in biomedical sciences; didactic means of promoting students' active participation in learning; strategies for recruitment of talented students.

[e.g., Tomáška (2000). *Biochemistry & Molecular Biology Education* 28: 242-243. Tomáška (2007). *Genetics* 175: 17-20; Tomáška *ASBMB Today* 7: 20-21; Tomáška (2011). *EMBO Reports* 12: 398-400; Ferenc et al. (2018). *Biochemical & Molecular Biology Education* 46: 22-30; Tomáška & Nosek. (2018). *PLoS Computational Biology* 14: e1006132; Brzáčová et al. (2021). *Genetics* 219: iyab118]