

MARK GOMELSKY

Brief CV

Professor of Molecular Biology
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EDUCATION

- 1991 Ph.D. Biological Sciences (Microbial Genetics). Institute of Genetics and Selection of Industrial Microorganisms, Moscow, Russia.
1988 B.S./M.S. Industrial Microbiology (*Summa cum Laude*). Moscow Institute of Chemical Technology, Moscow, Russia.

PROFESSIONAL EXPERIENCE

- 1999-present Professor (1999, Assistant; 2005, Associate; 2011, Full Professor). Dept. of Molecular Biology, University of Wyoming, Laramie, WY.
1993-99 Postdoctoral Research Fellow. Dept. of Microbiology and Molecular Genetics, University of Texas Medical School, Houston, TX.
1992 Visiting Scientist. Unit of Regulation of Gene Expression, Institut Pasteur, Paris, France.
1991-92 Junior Research Scientist. State Research Institute of Genetics and Selection of Industrial Microorganisms, Moscow, Russia.

Sabbaticals:

- 2015 Dept. of Microbiology, Tumor and Cell Biology, Karolinska Institute, Stockholm, Sweden.
2007 Dept. of Biomolecular Mechanisms, Max Planck Institute for Medical Research, Heidelberg, Germany.

TEACHING

- 2021-present (team-taught) MOLB4053 Communications in Molecular Biology (3 CR)
2016-present MOLB5057 Microbial and Synthetic Biology (2 CR)
2011-present MOLB4460/5460 Microbial Physiology and Metabolism (3 CR)

AWARDS AND HONORS

(last 5 years)

- 2021 UW Sensory Biology Center: Scientific Mentoring and Service Award.
2020 Society for Biological Engineering (SBE) Excellence and Service as Conference Chair of Optogenetic Technologies and Applications.
2019 American Society for Microbiology (ASM) Distinguished service as an Editorial Board Member of *J Bacteriol*.
2018 Excellence in Research Award, UW College of Agriculture and Natural Resources.
2017 Elected Fellow of American Association for the Advancement of Science (AAAS).
2017 13th Intl Conference on Tetrapyrrole Photoreceptors of Photosynthetic Organisms. Keynote.
2017 American Society for Microbiology (ASM) Distinguished Service on the Editorial Board of *Appl Environ Microbiol*.

FUNDING

(current)

- NIH R21 AG0728031. 4/2021-3/2023. Delaying cognitive decline in mouse models of Alzheimer's disease via near-infrared light optogenetics. Sun QQ, Gomelsky M, MPI.
- NIH R21 CA249814-01A1. 1/2021-12/2022. Remotely controlled listerial bactodrones for cancer immunotherapy. Gomelsky M, Gigley J, MPI.
- USDA-NIFA-AFRI-1946224 8/2020-8/2023. Listeria-plant biofilms. Gomelsky M, PI.
- NSF ENG 2015849. 7/2020-6/2023. Collaborative Research: Near-infrared light-controlled beta-cells. Gomelsky M, Tzanakakis ES, PIs.

MENTORSHIP

Completed: Postdoctoral associates: 10, Ph.D. students: 5; M.S. students: 9; Undergraduate students: >20; high school students: >20.

Current: Postdoctoral associates: 1, Ph.D. students: 4.

SERVICE

(last 5 years)

National/ International

Editorial Boards: *Frontiers Microbiol*, Assoc. Editor (2022-present), *Mol Microbiol* (2014-present), *Appl Environ Microbiol* (2005-17); *J Bacteriol* (2009-2019).

Grant proposal and manuscript review: NIH panels: *Permanent member* (2018-present): ZRG1-OTC-M 08. Immuno-oncology Research. *Ad hoc*: 2016 ZRG1 IDM S 81; 2017 ZRG1 IDM S 82); 2018 (ZRG1 IDM S 84); 2018 (CMT); 2019 ZRG1 IDM-S 83); 2020 (CMT); 2020 ZEB1 OSR-D (O1) P; 2022 ZRG1 IMST-F (91) S.

NSF panels: 2021 (EPSCoR, V211656).

German Research Foundation (Deutsche Forschungsgemeinschaft, DFG): 2017 Centers of Excellence in Immunology and Infectious Diseases; 2019 (SPP1879/2); 2019 (SPP1926/2).

Mail reviewer: numerous international funding agencies and journals.

Meeting organization: 2nd Optogenetic Technologies and Applications. Society for Biological Engineering. Org. Committee. (2021); 1st Optogenetic Technologies and Applications. Society for Biological Engineering. Co-chair. Boston, MA (2019).

Service for professional societies: Intl. Symp. Phototrophic Prokaryotes, Scientific Committee (2012-18).

University/ Department

Current: 2017-present: UW Sensory Biology Center, Internal Advisory Committee; 2008-present Graduate Program in Molecular Biology, Committee Chair; 2004-present Microbiology Program, Steering Committee.

Past: Dept. of Molecular Biology Faculty Search Committees: 2017 (Chair), 2018 (Chair), 2019. Sensory Biology Center, Faculty Search Committee (2020); Dept. of Molecular Biology Curriculum Committee (2004-09; 2019-20); UW Agricultural Experiment Station: proposal reviewer (2018); Scholarship Committee, College of ANR (2000-2017).

PUBLICATIONS

Total publications: 94. Total citations: >10,250. Hirsch index, H=47 (Google Scholar).

<https://scholar.google.com/citations?user=EBV-dIEAAAAJ&hl=en>

PATENTS AND PATENT APPLICATIONS

Total: 5.

<https://patents.google.com/?inventor=gomelsky+mark&oq=gomelsky+mark>