

Lajos Haracska



Scientific adviser
Institute of Genetics
HUN-REN Biological Research Center Szeged

SCIENTIFIC DEGREES

- 2013** D.Sc. Biological sciences *Hungarian Academy of Sciences, Budapest*
- 1997** Ph.D. Biological sciences *Attila József University, Faculty of Sciences and Informatics, Szeged*
- 1991** M.Sc. Molecular Biologist and Biotechnologist *Attila József University, Faculty of Sciences and Informatics, Szeged*

CURRENT POSITIONS

- 2003–** Scientific advisor, research group leader, *HUN-REN Biological Research Centre, Institute of Genetics, Szeged, Hungary*

EXTERNAL WORKPLACES

- 2006** 3 months *The University of Texas Medical Branch, Galveston, USA*
- 2005** 3 months *Sealy Center for Molecular Science, Galveston, USA*
- 2004** 2X3 months *The University of Texas Medical Branch, Galveston, USA*
- 2001-2003** 24 months *University of Texas Medical Branch, Galveston, USA*
- 1998-2001** 36 months *Sealy Center for Molecular Sciences, Galveston, USA*
- 1997** 1 month *The University of Dundee, Dundee, UK*
- 1997** 2 months *The University of Dundee, Dundee, UK*

NOTABLE INTERNATIONAL RESEARCH GRANTS

- 2017–** Hungarian Centre of Excellence for Molecular Medicine (European Union's Horizon 2020 grant agreement No. 739593, "New players in the replication of damaged DNA and cancer prevention: ubiquitin-PCNA-binding proteins and their mechanisms of action", Grantholder
- 2012-2013** Hungary – Serbia IPA Cross-border Co-operation Programme (HUSRB/1002/2.1.4), "Characterization and diagnosis of novel molecular tumor markers for personal treatment", Grantholder
- 2006–2011** Howard Hughes Medical Institute Grant (55005612), "Role of SUMO modification of human PCNA in preventing DNA double strand breaks", Grantholder
- 2005–2007** European Commission Research DG Human Resources and mobility Marie Curie Actions (22345), "Regulation and mechanism of replication of damaged DNA: role of yeast and human Rad5 and ubiquitylation", Grantholder
- 2003-2008** The Wellcome Trust (067596/Z/02/Z), "Roles of human Rad6-Rad18 and Mms2-Ubc13 ubiquitin conjugating enzyme complexes in mutagenic and error-free replication of damaged DNA", Grantholder

NOTABLE NATIONAL RESEARCH GRANTS

- 2022-2026** RRF-2.3.1-21-2022-00015, "National Laboratory for Drug Research and Development", Consortium member
- 2021-2025** TKP-31-8/PALY-2021, "Artificial intelligence-based single-cell analysis from basic research to the bedside", Consortium member
- 2016-2020** GINOP (GINOP-2.3.2-15-2016-00020), "Molecular mapping of genome instability and carcinogenesis", Consortium leader
- 2016-2020** GINOP (GINOP-2.3.2-15-2016-00001), "Molecular biological workshop in the service of health and environmental protection: Research fulfilling society's demands to enhance the international competitiveness of the centre of excellence", Consortium member
- 2016-2020** GINOP (GINOP- 2.3.2-15-2016-00026), "How do the phenotypes and surroundings of cells determine their visible features? System-level microfluidic analysis with the iChamber platform", Consortium member
- 2016-2020** GINOP (GINOP-2.3.2-15-2016-00024), "Molecular research into targeted and transposon-mediated gene transfer for a safer gene therapy", Consortium member
- 2012-2016** OTKA (101225), "Characterization of new DNA repair players having a unique ubiquitin-binding domain", Grantholder
- 2009-2012** OTKA (77495), "Identification of new players at the crossroad of DNA damage bypass, homologous recombination and non-homologous DNA end-joining in human cells", Grantholder

NOTABLE INFRASTRUCTURE DEVELOPMENT GRANTS

- 2017-2019** GINOP (GINOP-2.3.3-15-2016-00017), "Instrument framework for the analysis of macromolecular interactions: from intracellular interactions to interaction energies", Consortium leader

NATIONAL INDUSTRIAL COOPERATION GRANT

- 2021-2024** 2020-1.1.2-PIACI-KFI-2021-00304, "Development of a microbiome diagnostic technology and service platform", Consortium member
- 2019-2022** National Research, Development and Innovation Fund (2018-1.3.1-VKE-2018-00026), "Molecular diagnostic innovation for the analysis of low copy number DNA samples", Consortium member
- 2017-2021** GINOP (GINOP-2.2.1-15-2017-00052) "The development of a serum diagnostics- and data integration-based non-invasive marketable diagnostics prototype kit", Consortium member

AWARDS AND FELLOWSHIPS

- 2018** Szent-Györgyi Talentum Award
- 2015** Straub Award
- 2014** Szentágothai János Award
- 1997** Excellent Young Researcher Award, Hungarian Academy of Sciences

EDUCATIONAL ACTIVITIES

- B.Sc. supervision:** 4 supervisions
M.Sc. supervision: 9 supervisions
M.D. supervision: 2 supervisions
Ph.D. supervision: 15 supervisions

LANGUAGE EXAMS

1998 English proficient level

MISCELLANEOUS ACTIVITIES

- 2015-2020** ERC LS1 panel member
2014-2020 Member of the Doctoral Council of the Hungarian Academy of Sciences
2010-2020 Vice secretary of the Hungarian Biochemical Society
2005-2013 Member of the Committee on Genetics, Hungarian Academy of Sciences
2005-2013 Member of the Infrall and MolBiol board of OTKA grant agency
2003- Member of the advisory board of the Institute of Genetics of the Biological Research Centre



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