
MUDr. Petr Lesný, Ph.D., MHA

Date of birth: 12. 12. 1972
Place of birth: Prague
Family status: Married, 3 children

Academic Background

1992-1999 M.D. graduation at the 2nd Medical School of Charles University (General Medicine)
2008-2016 Ph.D. graduation in neurosciences (Utilization of the neural cells transplantation and biomaterials for the CNS tissue repair, tutor: Prof. Eva Syková, M.D., D.Sc.)
2024 MHA graduation (Advance Healthcare Management Institute, Prague)

Occupational history:

1992-1999 Security manager (ITS International, Ltd.) at Prague airport
2000-present Research scientist, 2nd Medical School, Charles University
2000-2013 Research scientist, Institute of Experimental Medicine AS CR, v.v.i. (IEM)
2000-present Physician, children E.N.T. department, Motol Faculty Hospital, Prague
2008-2012 Quality Assurance Manager, BioInova, Ltd.
2012-2013 Chief Executive Officer, Bioinova, Ltd.
2013-2014 Coordinator for Advanced Therapies, State Institute for Drug Control
2014-present Coordinator of the Immunotherapy Group & Head of GMP department, Institute of Hematology and Blood Transfusion
2022-present Clinical Evaluator for the Czech Metrology Institute notified body

Research/Scholarly Activities:

1996-2009 Development of biomedical software for growth analysis
2004-2009 Development of network based biomedical software for the projects SMARTIE (EU FP6), MEDIGRID (GAAV) and METABO (EU FP7).
2000-2010 Cooperation with Institute of macromolecular chemistry AS CR on biomaterial development (macroporous polymer hydrogels for treatment of spinal cord injury)
2006-2011 Cooperation with the Technical university in Liberec and ELMARCO on development of nanofibers for biomedical applications
2007-2013 Quality assurance system development for the Innovation Biomedical Center IEM – developed complete GMP system for companies Bioinova, s.r.o. and ArtiCell, s.r.o. (human), EponaCell, s.r.o. (veterinary)
2010-2013 Realization of clinical trials with bone marrow multipotent mesenchymal stromal cells For the treatment of Amyotrophic lateral sclerosis, Rotator cuff tear and Spinal surgery (4 active clinical trials)
2014-present Development of clean room manufacture protocols for human stem cells, NK cells and CAR modified T lymphocytes
2019-2020 Clinical Advisor for Czech Office for Standards, Metrology and Testing
2020 Completed education for involvement as Qualified Person (2001/83/EC)
2019-present Good Clinical Practice (GCP) training each 2 years (expert trainer)
2022 Training in Medical Devices Regulation (MDR) clinical research

Affiliations/Memberships:

2010-present President of the Czech Society for Personalized Medicine and Biomedical Algorithms
2011-present Member of scientific board of the Czech Society for Medical Informatics and Health Information
2013-2014 Member of EC and EDQM expert consulting groups
2013-present Member of the scientific board of the Agrofert Foundation
2014-2019 Member of scientific board of the Institute of Hematology and Blood Transfusion
2015-present Member of scientific board of the Czech Society for Gene and Cell Therapy
2020-present Member of EXPAMED group

Languages

Czech, English – fluent in writing / speaking
French, Russian – basic language knowledge

Research fields

Specialization on interdisciplinary research in biomedicine, especially in the fields of

- Biomaterials – polymer hydrogels, medical devices, MEDDEV and MDR
- Nanomaterials – polymer nanofibers, superparamagnetic nanoparticles, patented work
- Stem cells – mesenchymal stem cells derived from bone marrow and adipose tissue
- Tissue engineering of bone, cartilage and spinal cord
- Knowledge engineering – development of biomedical ontology systems
- Quality assurance engineering – “programming” of quality assurance processes
- Cell based Immunotherapy – development of clinical protocols
- Technological transfer of projects in cell biology into clinical trials and beyond
- Good Manufacturing Practice of Advanced and Gene Therapy Medicinal Products
- Regulatory support of advanced /gene therapy medicinal products and medical devices

Experiences with grant applications

2003-present Author and co-author of more than 30 grant applications for GAČR, TAČR, IGA MZČR, GA AV, MPO, FP7, JPD2, JPD3, OPPA, OPPK and OPPI.
(e.g. CZ.04.3.07/4.2.01.1, CZ.04.2.06/2.1.00.5/0307, CZ.2.17/1.1.00/31330, KAN200520804, CZ.1.07/2.3.00/20.0274, CZ.2.17/1.1.00/32569, CZ.1.07/2.3.00/20.0274 ...)

2010-present Evaluator for EU FP7 & H2020 (program NMT, SC1, PF etc.)

2012-present Evaluator for MZ ČR (IGA, AZV) and MŠMT (OPVAVPI)

Business experiences

2008 Development of PrimeCell, a.s. (in cooperation with private investors, ~ 10 mil. CZK)
2008-2013 Development of BioInova, s.r.o. (in cooperation with private investors, ~ 20 mil. CZK)
2010 Business development of Mediware, s.r.o. and HealthInspect, s.r.o. (~ 5 mil. CZK)
2011 Business development of Boromeum project
2013-present Evaluation of Czech biomedical projects for foreign investment funds (> 100 mil. CZK)
2019-present Contract Advisor to Central Europe Industry Partners, a.s. (investment fund)

Computer skills

User – Windows/Linux, MATLAB, Microsoft Office products, Corel Draw, OpenClinica, GIMP, SigmaPlot, EndNote, Adobe Acrobat, Libre Office
Developer – software development in C#.NET (Microsoft Windows platform), ANSI C++ (UNIX and Linux systems) and Java (multiplatform development, Blackberry devices), JavaScript; author of widely used pediatric software for growth diagnostic

Scientometry

h-index (2024) = 18

Social networks presence

<http://www.linkedin.com/in/petrlesny>
<https://orcid.org/0000-0002-4198-5630>