

## BIOGRAPHICAL SKETCH



NAME: Loryan, Irena

POSITION TITLE: Senior Lecturer, Associate Professor (Docent)

### EDUCATION/TRAINING

Faculty of Pediatrics, Yerevan State Medical University, Yerevan, Armenia	M.D.	06/2001	Pediatrician
Department of Pharmacology, Yerevan State Medical University, Yerevan, Armenia	Ph.D.	02/2007	Pharmacology and Biochemistry
Section of Pharmacogenetics, Prof. Magnus Ingelman-Sundberg Lab, Department of Physiology and Pharmacology, Karolinska Institute, Sweden	Postdoc	Nov 1, 2008 – Dec 31, 2010	Pharmacogenetics
Translational PKPD Group, Prof. Margareta Hammarlund-Udenaes Lab, Department of Pharmaceutical Biosciences, Uppsala University, Sweden (sponsored by Janssen Pharmaceuticals)	Postdoc	Jan 1, 2011- June 30, 2013	Pharmacokinetics
Department of Pharmacy, Uppsala University, Uppsala, Sweden	Docent	15 Dec, 2021	Pharmacokinetics

### A. Contribution to Science

My research interest focuses on neuropharmacokinetics (neuroPK), involving a mechanistic understanding of small and large molecular weight drug disposition in the central and peripheral nervous systems, including passage across organ-specific endothelial barriers, distribution within parenchyma, and elimination processes in health and disease. Specific emphasis is given to elucidating the contribution of pathological alterations in CNS regions of interest to a drug exposure-response-biomarker relationship in neurological diseases using various preclinical models. Additionally, the exploration of pharmacokinetic mechanisms underlying central and peripheral neurotoxicities is of great interest. The development of novel methods and their applications for the in-depth characterization of neuroPKPD of drugs/investigational compounds is also an essential part of my research activities. The ultimate goal is to identify translational readouts for the characterization of drug exposure in central and peripheral nervous systems from preclinical species to patients to support efficacious and safe treatment, as well as facilitate drug development. For additional details, visit the Translational Pharmacokinetics/Pharmacodynamics (tPKPD) group's [website](#).

### B. Positions and Honors

#### Positions and Employment

June 2025-	<b>Study Director</b> , Pharmacokinetics, Department of Pharmacy, Uppsala University, Uppsala, Sweden
April 2023-	<b>Senior Lecturer</b> , Department of Pharmacy, Uppsala University, Uppsala, Sweden
2023-	<b>Research Group Leader</b> , Translational pharmacokinetics /pharmacodynamics (tPKPD), Department of Pharmacy, Uppsala University, Uppsala, Sweden
July 1, 2013 – April 10, 2023	<b>Researcher</b> , Department of Pharmacy, Uppsala University, Uppsala, Sweden
Sep 2005 - Oct 2008	<b>Assistant Professor</b> , Department of Pharmacology, Yerevan State Medical University, Yerevan, Armenia
Sep 2001 - Aug 2005	<b>Senior Laboratory Assistant</b> , Department of Clinical Pharmacology, Yerevan State Medical University, Yerevan, Armenia

#### Other Experience and Professional Memberships

2020-	Editorial Board Member of Fluids and Barriers of the CNS
2020-	Editorial Advisory Board Member of Pharmaceutical Research
2025-	IBBS Steering Council Senior Member

#### Honors

2025	Junior Keynote Speaker to the 27th European Brain Barriers Meeting, Bern, Switzerland
2024	Keynote speaker at the BBBNetwork, Leiden, Netherlands
2023	Keynote speaker at the 2nd Belgian Brain Barriers Symposium, Leuven, Belgium
2023	Member of the organizing committee for CVB2023, Uppsala, Sweden
2022	Keynote speaker at the 4th Scandinavian Blood-brain Barrier Network Symposium, virtual event
2020-2022	Handling co-editor of an honorary special issue entitled "Translational Pharmacokinetics and Pharmacodynamics in CNS and beyond" in the journal Pharmaceutical Research (PharmRes®)
2018	Co-chair of "The Barriers of the CNS" Gordon Research Seminar, Colby-Sawyer College, New London, NH, USA

**Complete List of Published Work in MyBibliography:**  
<https://pubmed.ncbi.nlm.nih.gov/?term=Loryan+Irena>