

PERSONAL DETAILS

Name	Robert Frithiof
Date of Birth	March 29, 1976
Nationality	Swedish
Languages	Swedish, English, German
E-mail	robert.frithiof@uu.se

PUBLICATIONS

Publications in peer-reviewed international journals – 144
Book chapters – 4
Citations: 6627, h-index 39

EDUCATION AND LICENCES

2024 -	Ongoing scandinavian fellowship training in paediatric anaesthesia and intensive care
2020	Board-certified Specialist in Anesthesia and Intensive Care
2019	European Diploma in Anaesthesia and Intensive Care, part I
2012	License to practice medicine in Sweden
2012	Associate professor (Docent) in Experimental Anesthesia and Intensive Care at Uppsala University
2011	Associate professor (Docent) in Physiology at Karolinska Institutet
2007	Ph.D., Dept of Physiology & Pharmacology, Karolinska Institutet. “Cerebral mechanisms in cardiovascular control”
2002	University Medical Degree (M.D.), Karolinska Institutet/Gothenburg University, Sweden

CURRENT POSITIONS

2024-	Professor in Paediatric Anaesthesia and Intensive Care, Uppsala University
2023-	Consultant, Anaesthetist/Intensivist working in Paediatric Anaesthesia and Intensive Care, Uppsala University Hospital

PAST ACADEMIC POSITIONS

2021-2024	Adjunct Senior Lecturer, Dept of Surgical Sciences, Uppsala University
2015-2022	A Swedish Research Council sponsored half-time position as researcher in a clinical environment
2012-2014	Scientist 30%, Dept of Surgical Sciences, Uppsala University and clinician 70% Dept. of Anesthesiology & Intensive Care Uppsala University Hospital.
2010-2015	Assistant Professor, group leader, Dept of Physiology & Pharmacology, Karolinska Institutet.
2010-2012	Intern Physician, Karolinska Hospital and Karolinska Institutet
2009-2010	Postdoc, Dept of Physiology & Pharmacology, Karolinska Institutet
2007-2009	Postdoc, Howard Florey Institute, Melbourne, Australia
2002- 2012	Lecturer in physiology, Karolinska Institutet

PAST CLINICAL POSITIONS

2022-2023	Paediatric Intensivist, Starship Childrens Hospital, New Zealand
2020-2022	Specialist Anaesthetist/Intensivist working in Paediatric Anaesthesia and Intensive Care, Uppsala University Hospital
2012-2020	Resident Physician in Anaesthesia & Intensive Care, Uppsala University Hospital
2010-2011	M.D., Department of Infectious Disease, Karolinska University Hospital, extra 1-2 times/month in the ER
2006-2011	Medical consultant St Jude Medical AB
2004-2007	M.D., Södra Stockholms Geriatriska Klinik. (Full-time 3 months 2004, thereafter part-time approximately 20 hours/month)

2000-2002	Nurse assistant, Department of Neurointensive Care, Karolinska University Hospital, Solna, Stockholm
1998	Nurse assistant, Department of Neurointensive Care, Sahlgrenska University Hospital, Gothenburg, Sweden
1998-1999	Nurse assistant, Department of Neurointensive Care, Karolinska University Hospital, Stockholm, Sweden

HONOURS, AWARDS AND GRANTS

External research funding obtained in international/national competition as principal applicant

Grant for Employment as Doctoral Candidate in the Health Professions	2025-2033
Swedish Childhood Cancer Fund	2025-2027
Regional Research Council in Mid Sweden	2025
The Swedish Kidney Foundation	2020
Knut och Alice Wallenbergs Foundation	2020
Swedish Research Council	2018-2024
(Grant for half-time research position in a clinical environment and project)	
Swedish Research Council	2015-2017
(Grant for half-time research position in a clinical environment and project)	
Swedish Research Council (Project)	2012-2014
Åke Wibergs Foundation	2010
Karolinska Funds	2010
Svenska Läkarsällskapet	2008
Wenner-Gren Stiftelserna	2008
Swedish Heart and Lung Foundation	2007
STINT	2007
The Lars Hierta Memorial Foundation	2007
The Lars Hierta Memorial Foundation	2006

External research funding obtained in international or national competition as co-applicant

Marie Skłodowska-Curie Actions Doctoral Networks, European Research Council	2023
Knut och Alice Wallenbergs Foundation	2021
Swedish Heart and Lung Foundation	2020
FORMAS	2016
Centre for Research & Development, Region Gävleborg, 100% Doctoral grant	2014

Significant other research funding received as principal applicant

ALF equipment grant	2021
ALF equipment grant	2017
ALF grant for doctoral students	2015

Significant other research funding received as co-applicant

ALF equipment grant	2020
---------------------	------

ADMINISTRATION AND LEADERSHIP

Chairmanship

1998	Chairman of the athletics section of the local Gothenburg Medical Student Association
------	---

Positions as member or delegate

2023-	Board member of the Department of Surgical Sciences, Uppsala University
-------	---

Curriculum Vitae Robert Frithiof, MD, PhD, Professor

2023- 2024 Treasurer of the Science and Education section of the Swedish Society of Anaesthesiology and Intensive Care.

2019-2020 Member of the recruitment committee for new residents at the Department of Anaesthesia and Intensive Care, Uppsala University Hospital

2019-2023 Member of the Science and Education section of the Swedish Society of Anaesthesiology and Intensive Care.

2018-2022 Member of the editorial board of the journal Hypertension

2010-2020 Member of the Editorial Board of 'Frontiers in Integrative Physiology'

2005-2007 PhD-student representative in the PhD-student Admission Board at the Dept of Physiology & Pharmacology, Karolinska Institutet.

2002-2004 Organizer of the weekly seminar series "FYFA-forum" at Karolinska Institutet

1996-1997 Member of the Athletics section of the local Gothenburg Medical Student Association
I was also recently asked to co-lead (medicinsk ledningsläkare) the Paediatric Intensive Care Unit at the Department of Anaesthesia and Intensive Care, Uppsala University Hospital but I declined due to my planned stay in New Zealand.

Administrative responsibilities

2025 Chair for Research Council, Anaesthesia & Intensive Care, Uppsala University Hospital

2025- Head of the international study POAKIDS

2017 Course director for the course "Sepsis – state of the art"

2003 Course director for the course "Human biology for teachers"

2003 Responsible for the Cardiovascular and Renal Physiology part of a larger study programme at master/research level in physiology.

SUPERVISION

PhD candidates supervised up to the defence of the candidate's doctoral thesis (main supervisor)

1. Erik Näslund. Dissertation 2025-06-05. Uppsala University. Non-invasive measurements of intraosseous sternal blood flow
2. Sara Bülow Anderberg. Dissertation 2024-09-06. Uppsala University. Inflammatory mechanisms for acute kidney injury in severe infections.
3. Tomas Luther. Dissertation 2023-05-12. Uppsala University. Aspects of renal blood flow and oxygenation in acute kidney injury during severe infections.
4. Johan Fenhammar. Dissertation 2011-05-27. Karolinska Institutet. Renal failure in experimental sepsis: role of Endothelin and the Toll-like receptor 4.

PhD candidates supervised up to the defence of the candidate's doctoral thesis, with the applicant serving as co-supervisor

1. Elisabeth Berghäll. Dissertation 2024-12-02. Uppsala University. Modulation of the Immune Response in a Human Endotoxin Model and the Immune Profile in Patients with Severe COVID-19.
2. Oskar Nensén. Dissertation 2023-09-08. Uppsala University. Intrarenal oxygen homeostasis in acute and chronic kidney disease.
3. Andreas Andersson. Dissertation 2011-05-13. Karolinska Institutet. Factors influencing splanchnic microcirculation in animal models of endotoxaemia.

Ongoing supervision of a PhD candidate, with the applicant serving as main supervisor

1. Arash Emami. Uppsala University. Paediatric postoperative Acute Kidney Injury. Ongoing since 2024. Estimated time for half-time seminar 2026.
2. Micael Taavo. Uppsala University. The influence of anaesthesia on renal sympathetic nerve activity and renal function Ongoing since 2015. Half-time seminar June 2022. Estimated time for thesis defence 2026.
3. Hanna Tegnér. Uppsala University. Pediatric Intensive Care Unit Surge Capacity in Sweden and Nordic settings

Curriculum Vitae Robert Frithiof, MD, PhD, Professor

Estimated time for thesis defence 2028.

4. Johanna Dahlberg. Uppsala University.

Optimizing Peripheral Intravenous Access in Children: Development of a Pediatric Cannulation Strategy in the Nordic Context

Ongoing since 2025.

Ongoing supervision of a PhD candidate, with the applicant serving as co-supervisor

1. Sara Åkerman. Uppsala University.

Delirium in paediatric intensive care - Prevalence and nursing care

Ongoing since 2022. Half-time seminar April 2024. Estimated time for thesis defence 2027.

2. Felix Berglund. Uppsala University.

Contrast-induced nephropathy.

Ongoing since 2023. Half-time seminar June 2024.

3. Bahareh Razmand. Uppsala University. Mapping the innate immune switch: quantitative profiling of TREM-1 in critically ill patients. Ongoing since 2024.
4. Carley Fowler. Uppsala University. The impact of sevoflurane and propofol anesthetics on post-transcriptional renal regulation in a porcine hemorrhage model. Ongoing since 2024.
5. Sven Uhlig. Uppsala University / Karlstad Regional Hospital. Can music as a complement to standard sedation reduce the requirement of sedation in patients in intensive care? Ongoing since 2024.

Postdoc supervision

Stephanie Franzén	2016-cont	PhD from Linköping University
Karl Stattin	2020-2023	PhD from Uppsala University
Sana Asif	2020-2025	PhD from Uppsala University
Rickard Lagedal	2021-2022	PhD from Uppsala University

Supervision of other researchers who have defended a thesis

Ali-Reza Modiri	2022-cont	PhD from Uppsala University. Employed as researcher in my group
-----------------	-----------	---

TEACHING EXPERIENCE

- Approximately 2300 hours of teaching at undergraduate, graduate, postgraduate and research level.
- Course director for the courses
 - “Human biology for teachers” a university course running evenings throughout two semesters with the aim of furthering the knowledge of high-school teachers in human biology. Thirty to 35 participants (all certified teachers) in each course.
 - “Sepsis – state of the art”. Course for resident doctors (Anaesthesia and Intensive Care).
 - Cardiovascular and Renal Physiology. One week as part of larger study programme at master/research level in physiology.
- Organizer of the weekly seminar series “FYFA-forum”, 2002-2003, Karolinska Institutet
- Thesis examiner, 2022 and 2023, Graduate Research Examination, Melbourne University

THESIS (PHD) EXAM COMMITTEES

Serving as thesis opponent

2022	Susanne Rysz, Pathophysiology of Critically Ill Covid-19 Patients, Karolinska Institutet
2020	Julia Dolonina, Experimental Studies on the Regulation of Glomerular Filtration Barrier Permeability In Vivo, Lund University

Serving as a member of a thesis examination committee

2025	Henrik Arthursson	Uppsala University
------	-------------------	--------------------

2025	Nima Naseh	Uppsala University
2025	Katalin Kiss	Sahlgrenska Academy, Gothenburg
2024	Nima Naseh (half-time)	Uppsala University
2024	Erik Linné (half-time)	Lund University
2024	Shanay Daham (half-time)	Karolinska Institutet
2023	Benjamin Sansom	Melbourne University
2022	Thomas Larsen	Melbourne University
2020	Susanna Rysz (half-time)	Karolinska Institutet
2019	Mariangela Pellegrini	Uppsala University
2018	Ammar Al-Mashhadis	Uppsala University
2018	Victoria Karlsson	Uppsala University
2018	Mediha Becirovic Agic	Uppsala University
2017	Carla Carvalho	Uppsala University
2017	Jenny Skytte	Sahlgrenska Academy, Gothenburg
2016	Claire Rimes Stigare	Karolinska Institutet
2015	Henrik Reinius	Uppsala University
2014	Stephanie Franzén	Linköpings University
2013	Henrik Reinius (half-time)	Uppsala University

INVITED SPEAKER TO SCIENTIFIC CONGRESSES

2025	Hedenstierna Laboratory Master Class Symposium. A physiological approach to Kidney Circulation and Failure.
2025	Yearly meeting of the Swedish Society for Paediatric Anaesthesia and Intensive Care
2025	SFAI-congress.
2024	Hedenstierna Laboratory Master Class Symposium. A physiological approach to respiratory failure.
2024	Yearly conference of the European Society for Paediatric Anaesthesia. The distribution and outcomes of paediatric anaesthesia in Sweden. A national register-based cohort study
2023	Hedenstierna Laboratory Master Class Symposium. A physiological approach to respiratory failure.
2023	Yearly conference of the European Society for Paediatric Anaesthesia. Urine output as an estimate of renal function during anaesthesia and surgery
2021	Yearly conference of the Swedish Society of Anaesthesia and Intensive Care. Mechanisms for severe COVID-19.
2016	Meeting of the Swedish National Society for Nurses in Anesthesia and Intensive Care. Perioperative acute kidney injury.
2014	Scandinavian Physiological Society. Toll-like receptor 4 in sepsis-induced renal failure.
2013	Yearly conference of the Swedish Society of Anaesthesia and Intensive Care. Septic Acute Kidney Injury – New Targets.
2012	Hedenstierna Laboratory Master Class Symposium. Implications of fluid therapy optimization – the kidneys
2011	Uppsala Renal Meeting by the Heart and Lung Foundation. Septic Acute Kidney Injury.
2007	Australian National High Blood pressure Council. The hypothalamic paraventricular nucleus mediates cardiovascular responses to increased cerebrospinal fluid $[Na^+]$ in conscious sheep