

Curriculum Vitae of Henrik Druid MD, PhD.

Updated Jan 24, 2024

Educational history:

2011 Professor at Karolinska Institutet, Stockholm, Sweden

2001 Associate Professor at Karolinska Institute, Stockholm, Sweden

2001 Associate Professor at Linköping University, Sweden

2000-2001 Postdoc at Dept of Neurology, University of Miami

1998 PhD

1988 Certified Forensic Pathologist

1983 M.D. license

1982 M.D. exam

Research courses: Literature search and bibliographic training 1984, Isotopes in theory and practice

1984, Theory of science 1984, Biology of free radicals 1987, Medical statistics 1987, Computer training

and theory 1988, Basic pedagogy 1988, Animal research 1994, Neuropathol. 1997, Cardiac pathology

1998, PhD student mentorship training 1999. Advanced multiple staining immunohistochemistry 2004,

Advances in cardiac pathology 2013. Diagnostic aspects of child abuse 2014.

Occupational history

2011- Faculty Professor of Forensic Medicine at Karolinska Institute, Stockholm and Senior Forensic Pathologist at the Swedish National Board of Forensic Medicine.

2006-2011 Research Manager and Senior Forensic Pathologist at the Swedish National Board of Forensic Medicine and Assoc. Prof of Forensic Medicine at Karolinska Institute.

2001-2005 Chief Forensic Pathologist in Stockholm, Sweden, at the National Board of Forensic Medicine and Assoc. Prof of Forensic Medicine at Karolinska Institute.

2000-2001 Postdoc (supported by NIH/NIDA) Dept of Neurology, University of Miami, FL

2000-2002 Senior Clinical Consultant, Dept of Forensic Toxicology, Linköping, Sweden

1998-1999 Deputy Chief, Dept Forensic Medicine, Linköping, Sweden

1991-1993 Deputy Chief, Dept Forensic Medicine, Linköping, Sweden

1988-1999 Forensic Pathologist, Dept Forensic Medicine, Linköping, Sweden

1983-1988 Residency: Linköping, Sweden

1982-1983 Internship: Finspång/Norrköping, Sweden

1981 Deputyship, assistant physician general practice (2 months) Mjölby, Sweden

1980 Deputyship, assistant physician internal med (2 months) Värnamo, Sweden.

Teaching activity:

More than 1,800 hours of lectures for medical students in forensic medicine at Linköping University (1985-2000) and Karolinska Institute (2001-). Organizer for the courses in forensic medicine for medical students at Karolinska Institute since 2002. Organizer of and lecturer at courses in postmortem toxicology, time-of-death-estimation, forensic histopathology, recently also seminars on postmortem biochemistry. Co-organizer of student elected course in forensic medicine 2021-present. I have also been teaching pertinent jurisprudence for foreign doctors recruited to Sweden, in Warsaw and Sweden.

Invited lectures: 50 in 13 countries.

Scientific activity and supervision: Studies on postmortem toxicology since 1989, founder and director of the Toxicologist project. Neuropharmacology and Addiction since 2000. Cell turnover since 2003, co-PI of the Bone Age project. Opioid toxicity since 2002, including hair analysis. Wound age estimation since 2010. Postmortem biochemistry since 2002. Traumatic brain injury since 2020. Hypothermia since 2018. Current main supervisor for 1 PhD student, and co-supervisor for 2 PhD students and host for 1 postdoc. Former main supervisor for 6, and co-supervisor for 4 PhD students. Former host for 7 postdocs and 3 visiting researchers. Supervisor for 48 undergraduate or master students carrying out research projects. Opponent at 4 PhD dissertations. Completed reviewer assignments: about 25 annually.

PhD dissertation: Druid H. Experimental acute ischemic renal failure and anticoagulation. Thesis. Linköping University, Linköping, Sweden, 1998.

Publications and citations: Articles published: 108. Book chapters: 16. Congress presentations: 171. Citations: 10,589. Hirsch index: 39. Average citations per publication: 95.

Funding, selected: National Institute on Drug Abuse, NIDA/NIH: PI of an R01 grant, Royal Swedish Academy of Science, Wenner-Gren Foundation, Swedish Medical Research Council, Swedish National Board of Forensic Medicine, Swedish Society of Medicine, Royal Swedish Academy of Science, The Swedish National Drug Coordinator, Swedish Research Council (6 million USD/10 years, Linné support). Current support by KA Wallenberg foundation (4 million USD/5 years, PI Jonas Frisén), NIH/NIDA (5 million USD/5 years; PI Elliot Nelson), and Swedish Research Council (7.5 million SEK/3 years; PI Kanar Alkass).

Appointments, selected: Editor-in-Chief Research and Reports in Forensic Medical Science 2011-2022. Member of Editorial Board, Forensic Sci. Int. 2011-, and Cells 2023-. Expert consultant of the National Assoc. of Medical Examiner's Opiate Study Panel, 2012. Medical expert at the European Medicinal Agency 2009 and 2013. Equalis expert in histopathology 2022-. President of the Nordic Conf. of Forensic Medicine, 2015. Board member, Nordic Assoc. of Forensic Medicine, 2018-. Foreign Guest Professor, Argentine Catholic University, Buenos Aires 2023-.

Awards: Pedagogic prizewinner 2005 at the Department of On-Pat, Karolinska Institute. NIH/NIDA INVEST research fellowship award, 2000. Special price by Onk-Pat for teaching efforts 2023.

Miscellaneous: Founder and Director of KI Donatum, a core facility for donation of post-mortem tissue for specific research purposes. Former coordinator for forensic medicine in the Swedish national tissue donation project. Director of Toxicolist, a database of postmortem reference levels of pharmaceutical drugs available on the internet for certified institutions. Chief designer of the case management system RattsBASE/Portalen used at all forensic medicine departments in Sweden since 1992. Medical advisor at the Swedish Social Insurance Administration 2002-2009. Medical advisor at the Swedish National Board of Health and Welfare, 2002-present.

Professional experience: Medicolegal Autopsies: 6,440. Clinical-pathology autopsies: 335. Medicolegal examinations of living subjects: 1,383. Expert witness in court: 153. Scene investigations: 143. Diatom analyses 102. Expert reports: 429.

Home page: <http://ki.se/en/onkpat/henrik-druids-group>

10 selected publications:

1. Loyfer N, Magenheim J, Peretz A...Druid H...Kaplan T. A DNA methylation atlas of normal human cell types. **Nature**. 2023 Jan;613(7943):355-364.
2. Zilg B, Alkass K, Kronstrand R, Berg S, Druid H. A rapid method for postmortem vitreous chemistry – deadside analysis. **Biomolecules** 2022; 12:32.
3. Dhanabalan G, le Maître TW, Bogdanovic N, Alkass K, Druid H. Hippocampal granule cell loss in human chronic alcohol abusers. **Neurobiol Dis**. 2018;120:63-75.
4. Le Maitre TW, Dhanabalan G, Bogdanovic N, Alkass K, Druid H. Effects of Alcohol Abuse on Proliferating Cells, Stem/Progenitor Cells and Immature Neurons in the Adult Human Hippocampus. **Neuropsychopharmacology**. 2018;43(4):690-699.
5. Spalding KL, Bernard S, Naslund E, Salehpour M, Possnert G, Appelsved L, Fu KY, Alkass K, Druid H, Thorell A, Rydén M, Arner P. Impact of fat mass and distribution on lipid turnover in human adipose tissue. **Nature Commun**. 2017;8:15253.
6. Kronstrand R, Nystrom I, Strandberg J, Druid H. Screening for drugs of abuse in hair with ion spray LC-MS-MS. **Forensic Sci Int**. 2004;145(2-3):183-90.
7. Ernst A, Alkass K, Bernard S, Salehpour M, Perl S, Tisdale J, Possnert G, Druid H, Frisen J. Neurogenesis in the striatum of the adult human brain. **Cell**. 2014;156(5):1072-83.
8. Spalding KL, Bergmann O, Alkass K, Bernard S, Salehpour M, Huttner HB, Bostrom E, Westerlund I, Vial C, Buchholz BA, Possnert G, Mash DC, Druid H, Frisen J. Dynamics of hippocampal neurogenesis in adult humans. **Cell**. 2013;153(6):1219-27.
9. Bergmann O, Bhardwaj RD, Bernard S, Zdunek S, Barnabe-Heider F, Walsh S, Zupicich J, Alkass K, Buchholz BA, Druid H, Jovinge S, Frisen J. Evidence for cardiomyocyte renewal in humans. **Science**. 2009;324(5923):98-102.
10. Spalding KL, Buchholz BA, Bergman LE, Druid H, Frisen J. Forensics: age written in teeth by nuclear tests. **Nature**. 2005;437(7057):333-4.