

# Curriculum Vitae of Henrik Druid MD, PhD.

Updated Nov 2, 2018

## **Educational history:**

2011 Professor at Karolinska Institutet, Stockholm, Sweden

2001 Associate Professor at Karolinska Institutet, 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, Neuropathology 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.

## **Present position:**

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

## **Occupational history**

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

2001-2005 Chief Forensic Pathologist in Stockholm, Sweden, at the National Board of Forensic Medicine and Associate Professor of Forensic Medicine at Karolinska Institutet, Stockholm, Sweden

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 Senior 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 1,700 hours of lectures for medical students in forensic medicine at Linköping University (1985-2000) and Karolinska Institutet (2001-). Organizer for the courses in forensic medicine for medical students at Karolinska Institutet since 2002. Organizer of and lecturer at courses in postmortem toxicology, time-of-death-estimation and forensic histopathology.

**Invited lectures:** 43 in 12 countries.

**Scientific activity and supervision:** Investigations on experimental acute renal failure 1983-1999. Studies on postmortem toxicology since 1989, founder and director of the Toxicologist project. Neuropharmacology and Addiction since 2000. Age-determination of tissues since 2003, currently heading the project Bone Age, aiming at improving age estimation, and providing clues to provenance by bomb-pulse derived radiocarbon analysis and aspartic acid racemization of bones as previously applied by our group on enamel and dentin of teeth. Opiate death investigation since 2002 with particular focus on genetic and functional changes in the respiratory control centers in the human medulla oblongata. Wound age estimation using PLA assay since 2010. Postmortem biochemistry since 2002. Current main supervisor for three PhD students, and co-supervisor for two PhD students. Former main supervisor for three and co-supervisor for three PhD students. Host for two current and three previous postdocs and one visiting professor. Supervisor for 34 undergraduate or master students carrying out research projects. Completed reviewer assignments: about 30 annually.

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

**Publications and citations:** Articles published: 88. Book chapters: 8. Congress presentations: 159. Citations: 5193. Hirsch index: 31. Average citations per publication: 55.

**Funding, selected:** National Institute on Drug Abuse, NIDA/NIH: PI of a R01 grant, Royal Swedish Academy of Science, Wenner-Gren Foundation, Swedish Medical Research Council, Forensic Science Center; Linköping University, Swedish National Board of Forensic Medicine, Swedish Society of Medicine, Royal Swedish Academy of Science, Milan Valverius Foundation, Fulbright Foundation, Magn. Bergwall foundation, Petrus and Augusta Hedlunds Foundation, The Swedish National Drug Coordinator, Swedish Research Council (Linné support). Current support by KA Wallenberg foundation (5 million USD/5 years).

**Appointments, selected:** Editor-in-Chief of Journal of Research and Reports in Forensic Medical Science. Member of Editorial Board, Forensic Science International 2011-present. Expert consultant of the National Association of Medical Examiner's Opiate Study Panel, 2012. Medical expert on two occasions at the European Medicinal Agency 2009 and 2013. President of the Nordic Conference of Forensic Medicine, 2015.

**Awards:** Pedagogic prizewinner 2005 at the Department of Oncology-Pathology, Karolinska Institute. NIH/NIDA INVEST research fellowship award, 2000.

**Miscellaneous:** Founder and Director of KI Donatum, a core facility for donation of post-mortem tissue for specific research purposes. Coordinator for forensic medicine in the Swedish national tissue donation project. Director of Toxicologist, a database of postmortem reference levels of pharmaceutical drugs available on the internet for certified institutions. Chief designer of the case management system RattsBASE used at all forensic medicine departments in Sweden. Medical advisor at the Swedish Social Insurance Administration 2002-2009.

**Professional experience:** Medicolegal Autopsies: 6,228. Medicolegal examinations of living subjects: 1,382. Expert witness in court: 143. Scene investigations: 143. Expert reports: 394.

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

### Ten selected publications:

1. 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.
2. 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.** 2017.
3. 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. **Nat Commun.** 2017;8:15253.
4. Zilg B, Bernard S, Alkass K, Berg S, Druid H. A new model for the estimation of time of death from vitreous potassium levels corrected for age and temperature. **Forensic Sci Int.** 2015;254:158-66.
5. Bergmann O, Zdunek S, Felker A, Salehpour M, Alkass K, Bernard S, Sjostrom SI, Szewczykowska M, Jackowska T, Dos Remedios C, Malm T, Andrä M, Jashari R, Nyengaard JR, Possnert G, Jovinge S, Druid H, Frisen J. Dynamics of Cell Generation and Turnover in the Human Heart. **Cell.** 2015;161(7):1566-75.
6. 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.
7. 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.
8. Alkass K, Saitoh H, Buchholz BA, Bernard S, Holmlund G, Senn DR, Druid H. Analysis of radiocarbon, stable isotopes and DNA in teeth to facilitate identification of unknown decedents. **PLoS One.** 2013;8(7):e69597.
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.