

Academic Curriculum Vitae Manfred Kayser (03/2019)

Vita

- 2015-today Head, Department of Genetic Identification, Erasmus MC University Medical Center
2008-today Full Professor (Type 1: highest full professorship rank in Netherlands) of Forensic Molecular Biology, Erasmus University Medical Centre Rotterdam
- 2006-2007 Visiting Professor for Evolutionary Genetics, University of Cologne
- 2004-2015 Founding Head, Dept. of Forensic Molecular Biology, Erasmus MC Univ. Med. Center
- 2004-2008 Full Professor (Type 2: second highest full professorship rank in Netherlands) of Forensic Molecular Biology, Erasmus MC University Medical Center Rotterdam
- 2004 Heisenberg Fellow of the Deutsche Forschungsgemeinschaft at Max Planck Institute for Evolutionary Anthropology Leipzig (own group)
- 2004 Honorary Lecturer (*Priv.-Doz., Lehrbefaehigung*) for Genetics, University of Leipzig
- 2004 Habilitation in Genetics (*formal recognition as university teacher*), University of Leipzig, thesis on Y chromosome population genetics and human population history
- 1999-2003 Staff Scientist at Department of Evolutionary Genetics, Max Planck Institute for Evolutionary Anthropology Leipzig (with Prof. M. Stoneking)
- 1998-1999 Research Associate at Anthropological Genetics Laboratory, Department of Anthropology, Pennsylvania State University (with Prof. M. Stoneking)
- 1998 Doctoral Degree in Biology / Genetics (*Dr.rer.nat., PhD equivalent*) Humboldt-University Berlin with *summa cum laude*, thesis on Y chromosome molecular genetics and applications in anthropology and forensics
- 1995 Visiting Scientist at the CRC Chromosome Molecular Biology Group, Department of Biochemistry, Oxford University (with Dr. C. Tyler-Smith)
- 1995 Visiting Scientist at Forensic Laboratory for DNA Research, Department of Human and Clinical Genetics, Leiden University Medical Center (with Prof. P. de Knijff)
- 1994-1998 *Ph.D.* student at Genetics Research Laboratory, Department of Legal Medicine, Charité, Humboldt-University Berlin (Direct supervisor: Prof. L. Roewer)
- 1994 Diploma in Biology (*Dipl.-Biol., MSc equivalent*) University of Leipzig with *magna cum laude*, thesis on human and non-human primate microsatellite evolution
- 1989-1994 Study of Biology University of Leipzig (genetics, zoology, biochemistry, ecology)

Awards

- 2017 Biennial Scientific Prize 2017 International Society for Forensic Genetics 5000 EUR
- 1998 Research Award of the German Society of Legal Medicine: 3000 EUR shared equally with Lutz Roewer & Peter de Knijff

Grants & Fellowships

- 2017-2021 *Visible Attributes Through Genomics (VISAGE)*. European Union Horizon 2020 Research & Innovation Programme, Secure Society Challenge: 5 Mio EUR 13 partners, 906,875 EUR own part (Coordinator, WP leader, PI)
- 2015-2016 *Forensic DNA phenotyping of hair structure for investigative purpose*. European Union FP7 Program, European Forensic Genetics Network of Excellence (EUROFORGEN_NoE), 6.6 Mio EUR several partners: 128,000 EUR own part (PI)
- 2015 *Evaluating 3d facial characterization software and use for gene search*. Pilot grant UT-Battelle, Oak Ridge National Laboratory USA, 50,000 \$ (44,400 EUR) (PI)
- 2014-2016 *Ion Torrent PGM Next Generation Sequencing in Forensics*, Life Technologies Inc. / Thermo Fisher Scientific: 207,898 EUR (in kind as equipment and reagents) (PI)
- 2014-2017 *Screening for LQTS mutations in the Dutch USID/SIDS population*. Erasmus MC MRACE Pilot Grant: 50,000 EUR with 1 partner (co-PI)
- 2012-2016 *Estimating trace deposition time using circadian biomarkers*, Netherlands Organisation for Scientific Research (NWO): 308,000 EUR (PI)
- 2011-2014 *Molecular photofitting*, Australian Research Council (ARC): 196,692 Au\$ (128,500 EUR) with several partners (co-PI)
- 2011-2013 *A centralised facility for sequence to phenotype analyses*, Netherlands Organization for Scientific Research (NWO): 900,000 EUR with several partners (co-PI)
- 2011-2013 *Netherlands Consortium of Healthy Ageing*, Netherlands Genomics Initiative (NGI) / Netherlands Organization for Scientific Research (NWO): 13 Mio EUR with several partners, 272,000 EUR own part (PI)
- 2008-2012 Renewed institutional research grant *Human Genome Research*, Netherlands Forensic Institute (NFI): 4.5 Mio EUR (PI)
- 2008-2013 *Forensic Genomics Center Netherlands*, Netherlands Genomics Initiative (NGI) / Netherlands Organization for Scientific Research (NWO): 6.5 Mio EUR with two

- partners, 2.16 Mio EUR own part (PI)
- 2006-2009 *Forensic molecular biology*, Fonds Schiedam Vlaardingen: 227,000 EUR (PI)
- 2006-2009 *Molecular basis of evolutionary innovations*, SFB 680 University of Cologne Deutsche Forschungsgemeinschaft (DFG): 6.546 Mio EUR with several partners, 414,400 EUR own part with one partner (Co-PI)
- 2004-2006 Heisenberg Fellowship, Deutsche Forschungsgemeinschaft (DFG KA 1413/3-1): 133,325 EUR, returned after 3 months due to professorship at Erasmus University
- 2004 International Fellowship Environmental Science and Research (ESR) New Zealand

Scientific Publications (summary, for details see publication list)

236 peer-reviewed articles in int. scientific journals (58% as leading author) cited 14,000 times
h-Index 67 (i.e., 67 published articles each cited at least 67 times)
 34 non-peer-reviewed editorials and chapters in books and online encyclopaedias
 Third most cited scientist worldwide and most cited European in field of Legal Medicine and Forensic Science (ScienceWatch 2001-2011)

Invited Speaker

309 invited talks at scientific conferences, institutions, and teaching programs

Patents

EP 2195448 A1 "Method to predict iris colour"; US 20110263437-A1 "Analysis of Y-STR markers"

Editorial Activities Scientific Journals (selection)

Editor-in-Chief *Investigative Genetics* (2009-2016)
 Associate Editor *Journal of Human Genetics* (since 2011)
 Section Editor *European Journal of Human Genetics* (since 2019)
 Academic Editor *PLoS One* (since 2009)
 Guest Editor *PLoS Genetics* (2016), *FSI Genetics* (2017/18), *Genes* (2017/18)
 Member of Editorial Board *Forensic Science International: Genetics* (since 2014)
 Member of Advisory Board *International Journal of Legal Medicine* (since 2011)
 Member of Editorial Board *Genes* (since 2019)

Peer-Reviewer Scientific Journals (selection)

*American Journal of Human Genetics**, *American Journal of Human Biology*, *BMC Genetics*, *Current Biology**, *Electrophoresis*, *European Journal of Human Genetics**, *Evolution*, *Forensic Science International: Genetics**, *Genome Biology**, *Genome Research*, *Human Genetics**, *Human Mutations**, *Human Molecular Genetics**, *International Journal of Legal Medicine**, *Journal of Investigative Dermatology*, *Molecular Biology and Evolution*, *Nature**, *Nature Communications*, *Pigment Cell & Melanoma Research*, *PLoS Genetics* & others, * more regularly

Peer-Reviewer Scientific Organizations and Institutions (selection)

European Research Council (ERC), Max Planck Society Germany (MPG), The Wellcome Trust Sanger Institute UK, Royal Society UK, Biotechnology and Biological Sciences Research Council UK (BBSRC), Netherlands Organization for Scientific Research (NWO), National Research Foundation South Africa (NRF), National Sciences and Engineering Research Council of Canada (NSERC), Royal Society of New Zealand, Australian Research Council (ARC), Swiss National Science Foundation (SNSF), University of Zurich Switzerland, & others

Organizer Scientific Conferences, Symposia and Workshops

Program Director Forensic Genetics & Anthropological Genetics Programs 9th, 10th, 11th ISABS Conference, Croatia, 2015, 2017, 2019; Workshop *Forensic DNA Phenotyping* 8th EAFS Conference, France, 2018; Workshop *Predictive DNA Analysis in Forensic Genetics* 27th ISFG Congress, Korea, 2017; Workshop *Forensic DNA Phenotyping* 26. ISFG Congress, Poland, 2015; Workshop *Forensic DNA Phenotyping* 25th ISFG Congress, Australia, 2013; Workshop *Forensic DNA Phenotyping* 22nd ISHI Conference, USA, 2011; International Symposium *Forensic Genetics: Science against Crime*, Erasmus University Rotterdam, Netherlands, 2006; Workshop *Y Chromosome Analysis and its Application to Forensic Casework* 54th AAFS Conference, USA, 2002

Academic Teaching

Supervisor of 13 *B.Sc.*, 19 *M.Sc.*, 17 *Ph.D.* students, 10 technicians, 13 postdocs; Faculty member of several MSc and PhD Schools at Erasmus University; lecture series, lectures, seminars, courses in human genetics, evolutionary genetics, and forensic genetics at universities in the Netherlands, Germany, Italy, Spain, Venezuela; Visiting Professor at University of Cologne

Membership Professional Organizations

International Society of Forensic Genetics (since 2004)