

Academic Curriculum Vitae Manfred Kayser

Vita

2015-today	Head, Department of Genetic Identification, Erasmus MC
2008-today	Full Professor (Type 1) of Forensic Molecular Biology, Erasmus MC
2006-2007	Visiting Professor for Evolutionary Genetics, University of Cologne
2004-2014	Founding Head, Department of Forensic Molecular Biology, Erasmus MC
2004-2008	Full Professor (Type 2) 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 (with own group)
2004	Honorary Lecturer (<i>Priv.-Doz., Lehrbefähigung</i>) for Genetics, University of Leipzig
2004	<i>Habilitation</i> in Genetics (<i>formal recognition as university teacher</i>), 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 (<i>Dr.rer.nat., PhD</i> equivalent) Humboldt-University Berlin with <i>summa cum laude</i> , 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	Doctoral student at Genetics Research Laboratory, Department of Legal Medicine, Charité, Humboldt-University Berlin (supervisor: Prof. L. Roewer)
1994	Diploma in Biology (<i>Dipl.-Biol., MSc</i> equivalent) University of Leipzig with <i>magna cum laude</i> , thesis on human and non-human primate microsatellite evolution
1989-1994	Study of Biology University of Leipzig (genetics, zoology, biochemistry, ecology)

Awards

2023	Elected Member of the European Molecular Biology Organisation (EMBO)
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 with two

Grants

Total	Grants worth of >45 Mio EUR with >9.6 Mio EUR own part
2024-2026	<i>Quantitative and visual prediction of eye, hair, and skin colour from DNA</i> . National Institute of Justice USA: 925,000 EUR two partners, 250,000 EUR own part (co-PI) <i>Visible Attributes Through Genomics</i> . European Union Horizon 2020 Research & Innovation Programme, Secure Society Challenge: 5 Mio EUR 13 partners, 906,875 EUR own part (Coordinator, WP leader, PI)
2017-2021	<i>Forensic DNA phenotyping of hair structure for investigative purpose</i> . European Union FP7 Program, European Forensic Genetics Network of Excellence: 6.6 Mio EUR several partners, 128,000 EUR own part (PI)
2015	<i>Evaluating 3d facial characterization software and use for gene search</i> . Pilot grant UT-Battelle, Oak Ridge National Laboratory USA, 44,400 EUR (PI)
2014-2016	<i>Ion Torrent PGM Next Generation Sequencing in Forensics</i> , Life Technologies Inc. / Thermo Fisher Scientific: 207,898 EUR (in kind as equipment and reagents) (PI)
2014-2017	<i>Screening for LQTS mutations in the Dutch USID/SIDS population</i> . Erasmus MC MRACE Pilot Grant: 50,000 EUR with 1 partner (co-PI)
2012-2016	<i>Estimating trace deposition time using circadian biomarkers</i> , Netherlands Organisation for Scientific Research: 308,000 EUR (PI)
2011-2014	<i>Molecular photofitting</i> , Australian Research Council: 128,500 EUR with several partners (co-PI)
2011-2013	<i>A centralised facility for sequence to phenotype analyses</i> , Netherlands Organization for Scientific Research: 900,000 EUR with several partners (co-PI)
2011-2013	<i>Netherlands Consortium of Healthy Ageing</i> , Netherlands Genomics Initiative / Netherlands Organization for Scientific Research: 13 Mio EUR with several partners, 272,000 EUR own part (PI)
2008-2012	<i>Human Genome Research</i> , renewed - based on own success in first funding period, institutional grant by Netherlands Forensic Institute: 4.5 Mio EUR (PI)
2008-2013	<i>Forensic Genomics Center Netherlands</i> , Netherlands Genomics Initiative /

- Netherlands Organization for Scientific Research: 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: 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, New Zealand

Scientific Publications

297 peer-reviewed articles in international scientific journals cited >30,000 x, D-index 93, h-Index >75
 37 not peer-reviewed scientific editorials and chapters in scientific books and online encyclopaedias
 Most cited European, third worldwide in Legal Medicine & Forensic Science 2001-11, ScienceWatch
 Most cited worldwide in Forensic Genetics and second most in Forensic Medicine 1960-2020
<https://doi.org/10.1007/s12024-021-00447-0>

Invited Scientific Talks

334 invited talks at conferences incl. keynotes, plenaries (133), institutions (55), courses (146)

Patents

EP2195448 A1 "Method to predict iris colour"
 US20110263437-A1 "Analysis of Y-STR markers"
 EP20158807 "Novel Y-chromosomal short tandem repeat markers for typing male individuals"

Editorial Activities Scientific Journals (selection)

Editor-in-Chief *Investigative Genetics* (2009-2016), Associate Editor *Forensic Science International: Genetics* (since 2023), 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), Guest Editor *Forensic Science International: Genetics* (2017/18; 2020/22), Guest Editor *Genes* (2017/18), Editorial Board Member *Forensic Science International: Genetics* (2014-2023), Advisory Board Member *International Journal of Legal Medicine* (since 2011), Editorial Board Member *Genes* (since 2019)

Peer-Reviewer Scientific Journals (selection)

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

Peer-Reviewer Funding Organizations and Scientific Institutions (selection)

European Research Council, Max Planck Society, Wellcome Trust Sanger Institute, Royal Society UK, Biotechnology and Biological Sciences Research Council UK, Netherlands Organization for Scientific Research, National Research Foundation South Africa, National Sciences and Engineering Research Council of Canada, Royal Society of New Zealand, Australian Research Council, Swiss National Science Foundation, University Zurich, University Lausanne, King's College London

Organizer Scientific Conferences, Symposia, Workshops

Program Director Forensic Genetics & Anthropological Genetics Programs 9th, 10th, 11th, 12th ISABS Conference, Croatia, 2015, 2017, 2019, 2022; 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 11 *BSc students*, 21 *MSc students*, 23 *PhD students*, 11 technicians, 14 postdocs; Faculty member of several MSc and PhD Schools at Erasmus University; lecture series, lectures, seminars, courses in forensic genetics, human genetics, evolutionary genetics at universities in the Netherlands, Germany, Italy, Spain, Venezuela; Visiting Professor at University of Cologne.

Member Professional Organizations

International Society for Forensic Genetics (since 2004)