

Dr Sarah Amalia Teichmann FMedSci FRS

Wellcome Sanger Institute
Wellcome Genome Campus
Hinxton, Cambridge CB10 1SA
UK

Cavendish Laboratory/Dept Physics
Cambridge University
Cambridge CB3 0HE

Tel. 07719 798717

Email: st9@sanger.ac.uk

Career to date

- 1981-1993: European School Karlsruhe (Germany). European Baccalaureate in July 1993 with highest mark of the year.
- 1993-1996: Trinity College, Cambridge University, B.A., Biochemistry. First class exam results in Pt IA and Pt IB (first and second year), highest first class degree of year in Biochemistry Pt II.
- 1996-2000: MRC Laboratory of Molecular Biology and Trinity College, Cambridge, PhD in laboratory of Dr C Chothia FRS.
- 1999-2005: Trinity College Research Fellowship.
- 2000-2001: Postdoctoral research with Prof Dame J Thornton CBE FRS FMedSci at University College London on a Beit Memorial Fellowship.
- 2001-2005: MRC Career Track Programme Leader at the MRC Laboratory of Molecular Biology, Cambridge, UK & Research Fellow of Trinity College, Cambridge.
- 2006-2013: MRC Programme Leader at the MRC Laboratory of Mol Biol.
- 2005-2015: Title C Fellow, Trinity College, Cambridge.
- 02/2013-09/2015: Principal Research Associate, Cavendish Laboratory/Physics Dept., Cambridge University
- Feb 2013-Jan 2016: Research Group Leader at EMBL-European Bioinformatics Institute & Senior Group Leader at the Wellcome Sanger Institute
- Since Oct 2015: Director of Research, Cavendish Laboratory/Physics Dept., Cambridge University**
- From Feb 2016: Head of Cellular Genetics, Wellcome Sanger Institute**
- From Oct 2016: Senior Research Fellow, Churchill College**

Prizes and Distinctions

- During undergraduate study: German National Merit Scholarship;
Junior, Senior and De Lancey Scholarships, Trinity College.
- During PhD: Boehringer Ingelheim Predoctoral Fellowship,
Max Perutz Prize of the MRC Laboratory of Mol. Biol.,
Trinity College Research Scholarship.
- As postdoctoral scientist: Beit Memorial Fellowship for Medical Research.

As group leader: EMBO Young Investigator (2003-2006),
Fellowship, Trinity College, (October 2005-2015),
Shell Science & Technology Woman of the Future (2009)
Lister Research Prize (2010),
Colworth Medal of the Biochemical Society (2011),
Crick Lecture of the Royal Society (2012),
EMBO member (2012)
Baranyi Award, Biophysical Society, USA (2014)
EMBO Gold Medal (2015)
Fellow, Academy of Medical Sciences (2015)
Fellow, Intl Society of Computational Biology (2016)
Senior Research Fellow, Churchill College (2016)
Helmholtz International Fellow Award (2017)
Genetics Society Mary Lyons Award (2018)
Biochemical Society GlaxoSmithKline Award (2020)
Fellow, Royal Society (2020)

Distinguished lectures: Bernhard-Rensch-Lecture, Germany (2013)
CNIO Distinguished Lecture, Madrid (2016)
Distinguished Ludwig Lecture, Lausanne (2016)
NIH Director's Wednesday Afternoon Lecture (2018)
CeMM Karl Landsteiner Lecture, Vienna (May 2021)
Bernard Amos Memorial Lecture, Duke (May 2021)
Pritzker School of Molecular Engineering Distinguished
Seminar, Chicago (May 2021)
Roderick Lecture, Jackson Labs, Bar Harbor (2021)
Haldane Prize Lecture, Oxford (2022)

Selected Other Activities

Examples of Scientific Advisory Boards: RIKEN Centre for Integrative Medical Sciences, Japan (from 2019), Berlin Institute of Health (2018/19), Howard Hughes Janelia Farm search committee for a new research area (from 2018-2020), Allen Institute for Immunology (from 2018), Helmholtz Munich (from 2021), Jackson Labs (from 2020), St Jude Medical (from 2022).

- Science Team & Strategy Team, OpenTargets, Wellcome Genome Campus (2012-16)
- MRC Laboratory of Molecular Biology Structural Studies Committee (ca 2008-2013)
- Senior Management Committee, EMBL-EBI, from 2014-16
- Co-founder, Sanger-EBI Single Cell Genomics Centre, 2012-2016
- UK representative on HFSP Council of Scientists, 2013-2016
- Member of the Executive Council of the Protein Society, 2011-2015
- Served on election committees for Academy of Medical Sciences & EMBO (2013-20)
- Serving on Royal Society Sectional Committee 6 (fellowship elections, from 2020)
- Consulting and SAB memberships for pharma & biotech industry from around 2010-now; currently Biogen Genomics Analysis Advisory Panel, Foresite Labs Scientific Advisory Board, GlaxoSmithKline Functional Genomics & AI Board, Qiagen Scientific Advisory Board
- co-founder and equity holder of Transition Bio, a molecular condensate company
- TEDx talk on "Mapping the Human Body One Cell At a Time" at Cambridge Uni (2022)

Funding

Many grants, including:

- 2010-2015: European Research Council Starting Grant "ThSWITCH: Decoding genetic switches in T helper cell differentiation"
- 2015-2020: ERC Consolidator Grant "ThDEFINE: (Re)defining CD4+ T cell identities one cell at a time"

- 2017: Chan Zuckerberg Initiative: raised extensive support for the Human Cell Atlas, including USD 30 million for the Data Coordination Platform at EMBL-EBI and USA
- 2018: Wellcome Strategic Support: Science (GBP 7 million, first such award, personal invitation): Pilot Projects for the Human Cell Atlas
- 2019: CZI, MRC and EU H2020 awards for the Human Cell Atlas, several million GBP

Organisation of international conferences

Organised one-day “Proteins, Genomes & Evolution” symposium in honour of Cyrus Chothia at MRC Laboratory of Molecular Biology in July 2007.

Wellcome Trust Conferences: Chair, Single Cell Biology, 2016, 2018, 2020

Gordon Research Conferences:

Discussion Leader, Gordon Research Conferences, “Structural, Functional & Evolutionary Genomics”, 2007, “Biomolecular Interactions and Methods”, 2012.

CSHL Conferences:

Session chair, Wellcome Trust/CSHL conference on Genome Informatics, 2006.

Co-chair, “Systems Biology: Global Gene Regulation”, 2014-2016.

Co-chair, “Systems Immunology”, 2019.

EMBO Conferences: Chair, Chromatin & Epigenetics (Alan Wolffe) Conference, 2015

Keystone Meetings: Chair, Single Cell Omics, 2017; Co-chair, Transcription and RNA Regulation in Inflammation and Immunity 2019.

Human Cell Atlas: Co-chair, kick-off meeting, London, October 2016 & General Meeting, Hinxton, March 2018; programme committee of all HCA meetings since then.

Mentorship

Examples of former PhD students now in leading academic positions are:

Madan Babu (Director, Data-Drive Discovery Center of Excellence, St Jude), Christine Vogel (tenured professor New York University, USA), Sarah Kummerfeld (tenured prof Garvan Institute, Sydney, Australia), Emmanuel Levy (tenured group leader, Weizmann Institute) Subhajyoti De (Rutgers University, New Jersey, USA).

Examples of former postdocs who went on to lead groups are:

Jose Leal (Gulbenkian Institute), Joseph Marsh (Edinburgh University and MRC Human Genetics Unit), Kedar Natarajan (Southern Denmark University), Hongbo Zhang (Sun-Yat-Sen University, China), Roser Vento (Wellcome Sanger Institute), Tzachi Hagai (Tel Aviv University), Johan Henriksson (Umea, Sweden), Mirjana Efremova (Queen Mary, London), Kylie James (Garvan Institute, Sydney), Cecilia Dominguez Conde (Human Technopole, Milan)

Membership of Editorial Boards

Science (Board of Reviewing Editors, from 2012), *Cell Reports*, *Genome Biology*, *Biochem J.* (2010-2015), *Biology Direct*, *PLoS Comp Biol* (2010-2013), *Briefings Functional Genomics*, *BMC Evol Biol*, (2011-2013), *Faculty of 1000*, *J Mol Biol*, *Immunome*, *Structure*, *eLife* (Board of Reviewing Editors, 2014-2015), *Advanced Genetics* (from 2019), *Developmental Cell* (from 2019) Section editor for “Sequences & Topology” for *Curr Op Struc Biol*, 2006, 2008, 2010, 2018 and for for “Genomes & Evolution” for *Curr Op in Genetics & Dev*, 2008 Associate Editor at *FEBS J* (2012-14) and *J Exp Zoology B* (from 2012-2015) *Annual Review of Genomics and Human Genetics* (2021-2025)

Publications

Over 240 publications overall, over 50,000 citations in total, and citation H-index 107 (Google Scholar). Full publication lists:

<https://www.ncbi.nlm.nih.gov/pubmed/?term=Sarah+Teichmann>

<https://scholar.google.co.uk/citations?user=ZMEr7wIAAAA&hl=en>