

Julian Lange, Ph.D.

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EDUCATION

M.S. in Data Visualization, Parsons School of Design	New York, NY	graduation in May 2018
Ph.D. in Biology, Massachusetts Institute of Technology	Cambridge, MA	2008
D.E.A. in Cancer Biology, University of Paris VII & Curie Institute	Paris, France	1999
B.S. in Biochemistry, McGill University	Montreal, Canada	1997

EXPERIENCE

Memorial Sloan Kettering Cancer Center New York, NY **Sep 2008–Sep 2016 & Jan–Jun 2017** **HHMI Research Specialist (Jan–Jun 2017)**

Supported the laboratory of Dr. Scott Keeney in the preparation of research articles. Functions included managing manuscript process; writing and editing manuscripts; and performing bioinformatic and visualization analyses.

- Collaborative work with research groups in New York, London, and Barcelona led to five articles currently published or under review at top-tier scientific journals

Postdoctoral Fellow (Sep 2008–Sep 2016)

Executed independent, hypothesis-driven biomedical research using experimental and programmatic approaches in the laboratory of Dr. Scott Keeney. Functions included statistical analyses using R to identify meaningful patterns in large data sets; conceiving, performing and analyzing experiments in molecular biology and genomics; and using bioinformatic and visualization tools to communicate findings in print publications and seminars.

- Discoveries led to eleven articles in top-tier, peer-reviewed scientific journals
- Awarded \$25,000 Tri-Institutional Breakout Prize for Junior Investigators for scientific impact
- Presented complex concepts at national and international conferences
- Awarded postdoctoral fellowship from the American Cancer Society
- Supervised research of a Ph.D. candidate and trained a laboratory technician

Massachusetts Institute of Technology and **Whitehead Institute** Cambridge, MA **2000–2008**

Ph.D. Researcher and Instructor

Carried out independent research on human genetic disorders of the Y chromosome in the laboratory of Dr. David Page, Director of the Whitehead Institute for Biomedical Research.

- Research findings covered in The New York Times
- Discoveries published in five articles in top-tier scientific journals
- Developed a web-based database of genetic markers for testing the human Y chromosome
- Taught sections of two undergraduate courses and mentored six students

SKILLS

Programming Tools and Software

- R, JavaScript, D3, P5, HTML/CSS, Adobe Illustrator, Adobe Photoshop, Microsoft Office
- See Publications and Graphics pages of website for examples

Languages

- French (fluent with oral and written knowledge)
- German (conversational)

SELECTED PUBLICATIONS (9 OF 23)

Primary authorship

- **Lange J** et al. Cell (2016) The landscape of mouse meiotic double-strand break formation, processing and repair
- **Lange J** et al. Genomics (2013) Intrachromosomal homologous recombination between inverted amplicons on opposing Y-chromosome arms
- **Lange J** et al. Nature (2011) ATM controls meiotic double-strand-break formation
- **Lange J** et al. Cell (2009) Isodicentric Y chromosomes and sex disorders as byproducts of homologous recombination that maintains palindromes
- **Lange J** et al. Nucleic Acids Research (2008) MSY Breakpoint Mapper, a database of sequence-tagged sites useful in defining naturally occurring deletions in the human Y chromosome

Secondary contribution

- Lukaszewicz A, **Lange J** et al. Cell Cycle (in press) Control of meiotic double-strand-break formation by ATM: local and global views
- Jain D, Meydan C, **Lange J** et al. PLoS Genetics (2017) rahu is a mutant allele of Dnmt3c, encoding a DNA methyltransferase homolog required for meiosis and transposon repression in the mouse male germline
- Daniel K, **Lange J** et al. Nature Cell Biology (2011) Meiotic homologue alignment and its quality surveillance are controlled by mouse HORMAD1
- Versteeg I, Sévenet S, **Lange J** et al. Nature (1998) Truncating mutations of hSNF5/INI1 in aggressive paediatric cancers

AWARDS & FELLOWSHIPS

- The New School Provost Scholarship, 2017–2018
- Tri-Institutional Breakout Prize for Junior Investigators, 2015
- American Cancer Society Postdoctoral Fellowship, 2012–2013
- Finalist, Life Sciences Research Foundation Postdoctoral Fellowship, 2010
- M.I.T. Walter A. Rosenblith Graduate Fellowship, 2000–2002
- Fellowship, Académie Nationale de Médecine, 1998–1999
- NSERC Canada Scholarship in Science and Engineering, 1993–1997
- McGill University McConnell Entrance Scholarship, 1993–1997

INVITED TALKS

- New York University Langone Medical Center, Mar 2015 New York, NY
- UT Southwestern Children's Medical Center Research Institute, Mar 2015 Dallas, TX
- The Hospital for Sick Children, Feb 2015 Toronto, Canada
- 8ème Journée d'Endocrinologie Sexuelle Alfred Jost, Mar 2010 Paris, France
- American Society of Andrology 31st Annual Conference, Apr 2006 Chicago, IL
- 15th International Chromosome Conference, Sep 2004 London, UK