

Miaozhu Li, Ph.D.

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2024 West Main Street, Room A110A, Durham, NC 27708, US

EDUCATION

- Institute for Nutritional Sciences (INS), SIBS, CAS** 2008.09 – 2013.06
Ph.D. in Genetic and Environmental Epidemiology
Advisor: Prof. Lin He
- China Agricultural University (CAU)** 2005.09 – 2008.06
B.S. in Biological Sciences with Honors
Graduated 1 year early based on academic excellence
Overall GPA: 3.61/4 (88/100)

ACADEMIC EXPERIENCE

- Center for Population Health and Aging, Duke University** 2014.09 – present
Postdoctoral Associate *Durham, US*
- Advisor: Dr. Svetlana Ukraintseva
 - Project: Relationships among genetic regulators of aging, health and lifespan
- CAS-MPG Partner Institute for Computational Biology** 2013.07 – 2014.08
Postdoctoral Fellow *Shanghai, China*
- Advisors: Prof. Sijia Wang; Prof. Jean Krutmann
 - Project: Air pollution exposure, its interaction with genes and the role of systemic inflammation on skin-related outcomes
- Leibniz Institut für umweltmedizinische Forschung (IUF)** 2011.11 – 2012.07
Visiting Scientist *Düsseldorf, Germany*
- Advisor: Prof. Ursula Krämer
 - Project: Gene-environment interactions in the onset of allergic diseases

PROFESSIONAL SKILLS

- Statistical Computing** SAS, Stata, SPSS for statistical analysis
R for data mining, machine learning and data visualization
- Bioinformatics** NGS software: Bowtie2, BWA, SOAP, Samtools, Bedtools, Tophat, Cufflinks
GWAS tools: PLINK, Haploview, IMPUTE2
- Programming** Linux Shell, Perl, Python and C
- Experimental Skills** PCR, Quantitative PCR, NGS library preparation, ELISA and Western Blot
- Languages** Mandarin Chinese, English (IELTS Overall score 7), German (A2)

PUBLICATIONS

Peer-Reviewed Journal Articles

- M Li**, J Lin, H Zhao. Circulating tumor DNA in cancer management. *Acta Academiae Medicinae Sinicae*. (accepted in April, 2016)
- X Meng, C Fang, **M Li**, G Guo, X Zeng. Bibliometric analysis on prognosis-related systematic reviews/Meta-analyses. *Chin J Evid-based Med*. 2016, 8 (4): 286-391. doi:10.3969/j.issn.1674-4055.

A Yashin, K Arbeev, L Arbeevea, D Wu, I Akushevich, M Kovtun, A Yashkin, A Kulminski, I Culminskaya, E Stallard, **M Li**, S Ukraintseva. How the effects of aging and stresses of life are integrated in mortality rates: insights for genetic studies of human health and longevity. *Biogerontology*. 2016 Feb;17(1):89-107. doi:10.1007/s10522-015-9594-8.

M Li*, A. Vierkötter*, T. Schikowski*, A Hüls, M. Matsui, B. Deng, C. Ma, A. Ren, J. Zhang, J. Tan, Y Yang, L. Jin, J. Krutmann*, Z. Li*, S. Wang*. Epidemiological evidence that indoor air pollution from cooking with solid fuels accelerates skin aging in Chinese women (* equal contribution) *J Dermatol Sci*. 2015, 79(2):148–154. doi:10.1016/j.jdermsci.2015.04.001

A Yashin, D Wu, L Arbeevea, K Arbeev, A Kulminski, I Akushevich, M Kovtun, I Culminskaya, E Stallard, **M Li**, S Ukraintseva. Genetics of aging, health and survival: Dynamic regulation of human longevity related traits. *Front Genet*. 2015; 6: 122. doi:10.3389/fgene.2015.00122

X Zeng, X Tang, X Wang, **M Li**, Y Guo, W Huang, Y Niu, W Leng. AlloDerm implants for prevention of Frey syndrome after parotidectomy: A systematic review and meta-analysis. *Mol Med Report*. 2012, 5(4):974–980. doi:10.3892/mmr.2012.762

S Wu, **M Li**, Y Liu, M Wei. Meta-analyses of correlation between tea consumption and risk of ovarian cancer. *Journal of Shanghai Jiaotong University (Medical Science)*. 2011, 31(6) 840–845. doi:10.3969/j.iaan.1674-8115.2011.06.036

M Li, Wu Y, Chen G, Yang Y, Zhou D, Zhang Z, Zhang D, Chen Y, Lu Z, He L, Zheng J, Liu Y. Deletion of the late cornified envelope genes *LCE3C* and *LCE3B* is associated with psoriasis in a Chinese population. *J Invest Dermatol*. 2011, 131(8):1639–1643. doi:10.1038/jid.2011.86

Book Chapters

M Li. Meta-Analysis of Correlation Coefficients with metacor and MAc, In: *Applied Meta-Analysis using R*, X. Zeng ed., Beijing: Military Medical Science Press, 2015. ISBN: 9787516306536.

Oral Presentations

M Li, E Link, C Cramer, D Sugiri, H Lin, U Krämer. Interactions between filaggrin mutations and traffic-related pollution in the induction of eczema in children, *Shanghai Doctoral Public Lectures in Biology*, December 2013.

Posters

N Xiao, T Ying, **M Li**. liftr: Reproducible Bioinformatics and Statistical Data Analysis with Docker, Rabix, and knitr. *BioC: Where Software and Biology Connect*. July, 2015, Seattle, WA. [BioC2015](#).

Ukraintseva S, **M Li**, Arbeevea L, Wu D, Arbeev K, Akushevich I, Yashin A. (2015) Functions of longevity and aging-related genes found in different studies: Relevance to cancer and brain disorders. Cancer Control and Population Sciences (CCPS) 4thrd Annual Poster Fair. The Duke Cancer Institute, May, 2015.

Ukraintseva SV, L. Arbeevea, D. Wu, M. Duan, **M Li**, KG. Arbeev, A. Kulminski, I. Akushevich, AI. Yashin. Pleiotropic effects of genes on phenotypes of aging, complex disease and longevity. The Gerontological Society of America (GSA) 68thrd Annual Scientific Meeting, Nov, 2015, Orlando, FL.

M Li*, A. Vierkötter*, A Ding, MS Matsui, B Deng, J Zhang, J Tan, Y Yang, T Schikowski, L Jin, J Krutmann, S Wang. Ethnic differences and environmental factors in skin aging. *J Invest Dermatol*. 134: S61–S71; doi:10.1038/jid.2014.105 (* co-first authors)

A Vierkötter*, **M Li***, C Ma, B Deng, MS Matsui, J Krutmann, Z Li. Indoor air pollution from cooking with coal or firewood accelerates skin aging in northern Chinese women. *J Invest Dermatol*. 134: S61–S71; doi:10.1038/jid.2014.105 (* co-first authors)

M Li, A. Vierkötter, A Ding, MS Matsui, J Tan, T Schikowski, L Jin, J Krutmann, S Wang. Environmental and lifestyle factors affecting skin aging in different ethnic groups. *CAS-MPG PICB Scientific Exchange Meeting*, June 2014.

SOFTWARE PACKAGES

- hdnom** R package building nomograms for high-dimensional Cox models, with support for model validation, calibration and comparison. Project website: <http://hdnom.org>. Available from CRAN: <https://cran.r-project.org/package=hdnom>.
- liftr** R package for dockerizing R Markdown documents with support for Rabin in reproducible research. Project website: <http://liftr.me>. Available from CRAN: <https://cran.r-project.org/package=liftr>.
- ggsci** R package for scientific journal and sci-fi themed color palettes for ggplot2. Project website: <http://ggsci.net/>. Available from CRAN: <https://cran.r-project.org/package=ggsci>.

AWARDS AND HONORS

Best Poster Award in 2014 CAS-MPG PICB Scientific Exchange Meeting	2014.06
Nominated Postdoc by Post-Doctoral Retreat in the 73 rd SID Annual Meeting	2014.05
Merit Student in Chinese Academy of Sciences	2013.05
Third prize for the academic report in 4 th Doctoral Student Symposium in INS	2012.10
Pfizer Scholarship of Shanghai Institutes for Biological Sciences	2012.01
Wood-Whelan Research Fellowship of IUBMB, the 2 nd Chinese student won it	2011.06
National Encouragement Scholarship (top 5%), China Agricultural University	2007.10
Honor's Scholarship (Grade 2), China Agricultural University	2006.10

MEMBERSHIP

American Society of Clinical Oncology (ASCO)	2015
The Gerontological Society of America (GSA)	2015
American Society for Biochemistry and Molecular Biology (ASBMB)	2015
The Cochrane Collaboration	2014
The German Society for Epidemiology (DGEpi)	2012
European Academy of Allergy and Clinical Immunology (EAACI)	2012
Friends of International Union of Biochemistry and Molecular Biology (IUBMB)	2009

SOCIAL ACTIVITIES

Council Member of North Carolina Chinese Scholars Sino-US Exchange Association	2016.02 – present
Council Member of Duke University Postdoc Association	2015.02 – present
Committee member of <i>Capital of Statistics</i> (http://cos.name)	2013.11 – present
Largest online community on statistics in China	
Volunteer of 2010 Shanghai International Youth Science and Technology Expo	2010.07
Team leader of “Qiu Suo Lecture Room” in Chinese Academy of Sciences	2009.09 – 2013.06
Volunteer of Junior Achievement, China, Project Manager of MESE (Management Economic Simulation Exercise)	2009.09 – 2013.06
Team leader of the volunteers of 21 th IUBMB & 12 th FAOBMB	2009.08