

Yuanqing Feng, Ph.D.

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Education

- 2011 - 2017 Ph.D. in Molecular Medicine, Peking University, China
2007 - 2011 B.S. in Pharmaceutical Engineering, Jilin University, China

Working

- 2025 - Now Professor, School of Basic and Clinical Medicine, Chinese Pharmaceutical University
2023 - 2025 Research Associate, Department of Genetics, University of Pennsylvania
2018 - 2023 Postdoc, Department of Genetics, University of Pennsylvania
2017 - 2018 Postdoc, School of Life Science, Peking University

Research areas

Population genetics, functional genomics, noncoding variants, complex traits and diseases

I study how **non-coding regulatory variants shape human phenotypic diversity and disease risk**, using integrative functional genomics approaches including MPRA, CRISPR, Hi-C, and single-cell technologies to dissect their molecular mechanisms. My work has been published in *Nature Genetics*, *PNAS*, *Molecular Biology and Evolution*, and *Circulation*, and I have delivered a plenary talk at ASHG (2022) and received the Chan Zuckerberg Initiative Next Generation Scientist Award (2023).

Google scholar page:

<https://scholar.google.com/citations?user=nWYWiVUAAAAJ&hl=en>

Publications:

1. **Y. Feng**, N. Xie, F. Inoue, S. Fan, J. Saskin, C. Zhang, F. Zhang, M. E. B. Hansen, T. Nyambo, S. W. Mpoloka, G. G. Mokone, C. Fokunang, G. Belay, A. K. Njamnshi, M. S. Marks, E. Oancea, N. Ahituv, S. A. Tishkoff, Integrative functional genomic analyses identify genetic variants influencing skin pigmentation in Africans. *Nature Genetics*. 56, 258–272 (2024).
2. **Y. Feng**, A. S. Tishkoff., Unravelling the molecular mechanisms of skin color diversity in Africans. *Nature Genetics*. 56, 200–201 (2024).
3. S. Fan, J. P. Spence, **Y. Feng**, M. E. B. Hansen, J. Terhorst, M. H. Beltrame, A. Ranciaro, J. Hirbo, W. Beggs, N. Thomas, T. Nyambo, S. W. Mpoloka, G. G. Mokone, A. Njamnshi, C. Fokunang, D. W. Meskel, G. Belay, Y. S. Song, S. A. Tishkoff, Whole-genome sequencing reveals a complex African population demographic history and signatures of local adaptation. *Cell* 186, 923–939.e14 (2023).
4. C. Zhang*, A. Verma*, **Y. Feng***, M. C. R. Melo, M. McQuillan, M. Hansen, A. Lucas, J. Park, A. Ranciaro, S. Thompson, M. A. Rubel, M. C. Campbell, W. Beggs, J. Hirbo, S. Wata Mpoloka, G. George Mokone, Regeneron Genetic Center, T. Nyambo, D. Wolde Meskel, G. Belay, C. Fokunang, A. K. Njamnshi, S. A. Omar, S. M. Williams, D. J. Rader, M. D. Ritchie, C. de la Fuente-Nunez, G. Sirugo, S. A. Tishkoff, Impact of natural selection on global patterns of genetic variation and association with clinical phenotypes at genes involved in SARS-CoV-2 infection. *Proc. Natl. Acad. Sci. U. S. A.* 119, e2123000119

(2022).

5. **Y. Feng**, M. A. McQuillan, S. A. Tishkoff, Evolutionary genetics of skin pigmentation in African populations. *Hum. Mol. Genet.* 30, R88–R97 (2021).
6. **Y. Feng**, H. Xu, J. Liu, N. Xie, L. Gao, Y. He, Y. Yao, F. Lv, Y. Zhang, J. Lu, W. Zhang, C.-Y. Li, X. Hu, Z. Yang, R.-P. Xiao, Functional and Adaptive Significance of Promoter Mutations That Affect Divergent Myocardial Expressions of TRIM72 in Primates. *Mol. Biol. Evol.* 38, 2930–2945 (2021).
7. Y. Jiang, J. Huang, K. Lun, B. Li, H. Zheng, Y. Li, R. Zhou, W. Duan, C. Wang, **Y. Feng**, H. Yao, C. Li, X. Ji, Genome-wide analyses of chromatin interactions after the loss of Pol I, Pol II, and Pol III. *Genome Biol.* 21, 158 (2020).
8. G. Li, N. Xie, Y. Yao, Y. Zhang, J. Guo, **Y. Feng**, F. Lv, R.-P. Xiao, C.-M. Cao, Identification of PI3K regulatory subunit p55 γ as a novel inhibitor of vascular smooth muscle cell proliferation and neointimal formation. *Cardiovasc. Res.* 105, 75–85 (2015).
9. J. Guo, N. Xie, G. Li, Y. Zhang, F. Lv, S. Guo, **Y. Feng**, C.-M. Cao, R.-P. Xiao, p55 γ functional mimetic peptide N24 blocks vascular proliferative disorders. *J. Mol. Med.* 93, 1107–1118 (2015).
10. N. Xie, M. Chen, R. Dai, Y. Zhang, H. Zhao, Z. Song, L. Zhang, Z. Li, **Y. Feng**, H. Gao, L. Wang, T. Zhang, R.-P. Xiao, J. Wu, C.-M. Cao, SRSF1 promotes vascular smooth muscle cell proliferation through a Δ 133p53/EGR1/KLF5 pathway. *Nat. Commun.* 8, 16016 (2017).
11. Y. Zhu, N. Mitra, **Y. Feng**, S. Tishkoff, O. Hoffstad, D. Margolis, FLG Variation Differs between European Americans and African Americans. *J. Invest. Dermatol.* 141, 1855–1857 (2021).
12. F. Liu*, R. Song*, **Y. Feng***, J. Guo, Y. Chen, Y. Zhang, T. Chen, Y. Wang, Y. Huang, C.-Y. Li, C. Cao, Zhang, X. Hu, R.-P. Xiao, Upregulation of MG53 induces diabetic cardiomyopathy through transcriptional activation of peroxisome proliferation-activated receptor α . *Circulation.* 131, 795–804(2015).

Honors

- 2023 Chan Zuckerberg Initiative Next Generation Researcher Award
- 2023 Travel award for Advanced Gene Mapping Course at The Rockefeller University
- 2016 National Scholarship for Graduate Students, Peking University
- 2015 President's Scholarship, Peking University

Meeting and Talk

- Plenary Talk. Annual meeting of American Society of Human Genetics (2022)
- Advanced Gene Mapping Course at The Rockefeller University (2023)
- NIH Junior Investigators Atlas Building Meeting (2023)
- Chan Zuckerberg Initiative Single-Cell Biology Annual Meeting (2022)
- The Biology of Genomes, CSHL (2020)
- Annual meeting of American Society of Human Genetics (2020)
- Annual meeting of American Society of Human Genetics (2019)

Services

- Invited reviewer for Science, Nature communications, PNAS.