

Curriculum vitae

Name: Qianjiang Hu (QJ), DVM, MS, PhD

200 Lothrop St.
Pittsburgh, PA, 15217
huqj@pitt.com
www.qianjianghu.com

EDUCATION AND TRAINING

Education:

2018 - 2023	Munich Medical Research School, Ludwig-Maximilians-Universität, Germany Mentor: <i>Prof. Dr. Dr. Melanie Königshoff</i> Dissertation: <i>Epithelial Cell Reprogramming in Idiopathic Pulmonary Fibrosis</i>	PhD, 2023	Medical Research
2015 - 2018	University of Chinese Academy Sciences, China	MS, 2018	Cell Biology
2010 - 2015	College of Veterinary Medicine, South China Agricultural University, China	DVM, 2015	Veterinary Medicine

Training:

2023 - current	University of Pittsburgh School of Medicine, USA The Ohio State University, USA Mentor: <i>Prof. Melanie Königshoff, PhD (Wet lab)</i> <i>Prof. Ma Qin, PhD (Dry Lab)</i>	Postdoc Associate	
2021 - 2023	University of Pittsburgh School of Medicine, USA Mentor: <i>Prof. Melanie Königshoff, PhD</i>	Health Sciences Research Fellow	
2017 - 2017	School of Engineering, Università di Padova, Italy	Visiting Scholar	

MEMBERSHIP IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

2022 - current	American Thoracic Society (ATS)
2019 - current	European Respiratory Society (ERS)
2019 - current	German Thoracic Society (DGP)

EXPERTISE

Wet Lab:

Research Field	Idiopathic Pulmonary Fibrosis (IPF); Lung Aging; Cellular Senescence; Lung Epithelial Cells; Developmental Signaling Pathway; Mitochondrion
Lab Skills	Single Cell-Omics; LC-MS/MS; Flow Cytometry; Fluorescence Imaging; Histology; human/mouse Precision Cut Lung Slides (h/mPCLS); Animal Surgery; Genetic Mice Models; Lung Organoids

Dry Lab:

Research Field	Signature Discovery of Lung Aging and Chronic Lung Disease
Programming	Python; R; Bash

Packages	Python: Scanpy, Numpy, Pandas, Matplotlib, Seaborn, SciPy, Scikit-learn R: Seurat, DESeq2, ggplot2, dplyr, tidyr
Tools	Linux, Github, Git, Anaconda, Globus
Repositories	https://github.com/KonigshoffLab/GPR87_IPF_2022 https://github.com/KonigshoffLab/COPD_Hu_2022

PUBLICATIONS

1. **Hu Q.**, Saleem K., Pandey J., Charania A.N., Zhou Y., He C., Cell Adhesion Molecules in Fibrotic Diseases. *Biomedicines*. 2023; 11(7):1995. <https://doi.org/10.3390/biomedicines11071995>
2. Gurkar A., Gerencser A., ..., **Hu Q.**, *et al.*, "Spatial mapping of cellular senescence: emerging challenges and opportunities. *Nat Aging* 2023. <https://doi.org/10.1038/s43587-023-00446-6> (authors alphabetically ordered)
3. Wang X., Zhang H., Wang Y., Bramasole L., Guo L., Mourtada F., Meul T., **Hu Q.**, Viteri V., Kammerl I., Konigshoff M., Lehmann M., Magg T., Hauck F., Fernandez I., Meiners S. "DNA sensing via the cGAS/STING pathway activates the immunoproteasome and adaptive T-cell immunity." *EMBO J*. 2023. doi: 10.15252/embj.2022110597
4. Sui J, Boatz JC, Shi J, **Hu Q.**, Li X, Zhang Y, Königshoff M, Kliment CR. Loss of ANT1 Increases Fibrosis and Epithelial Cell Senescence in Idiopathic Pulmonary Fibrosis. *Am J Respir Cell Mol Biol*. 2023 Jul 24. doi: 10.1165/rcmb.2022-0315OC. PMID: 37487137.
5. **Hu Q.**, Königshoff M. Powering the formation of alveoli. *eLife*. 2022 Jun 9;11:e79651. doi: 10.7554/eLife.79651. PMID: 35678384; PMCID: PMC9183231.
6. **Hu Q***, Heinzelmann K*, Hu Y, Dobrinskikh E, Ansari M, Melo-Narváez MC, Ulke HM, Leavitt C, Mirita C, Trudeau T, Saal ML, Rice P, Gao B, Janssen WJ, Yang IV, Schiller HB, Vladar EK, Lehmann M, Königshoff M. Single-cell RNA sequencing identifies G-protein coupled receptor 87 as a basal cell marker expressed in distal honeycomb cysts in idiopathic pulmonary fibrosis. *Eur Respir J*. 2022 Jun 16;59(6):2102373. doi: 10.1183/13993003.02373-2021. PMID: 35604813; PMCID: PMC9203838.
* Equally contribution
7. Hu Y, Ciminieri C, **Hu Q.**, Lehmann M, Königshoff M, Gosens R. WNT Signalling in Lung Physiology and Pathology. *Handb Exp Pharmacol*. 2021;269:305-336. doi: 10.1007/164_2021_521. PMID: 34463851; PMCID: PMC8969078.
8. Lehmann M, **Hu Q.**, Hu Y, Hafner K, Costa R, van den Berg A, Königshoff M. Chronic WNT/ β -catenin signaling induces cellular senescence in lung epithelial cells. *Cell Signal*. 2020 Jun;70:109588. PMID: 32109549.
9. Michielin F, Giobbe GG, Luni C, **Hu Q.**, Maroni I, Orford MR, Manfredi A, Di Filippo L, David AL, Cacchiarelli D, De Coppi P, Eaton S, Elvassore N. The Microfluidic Environment Reveals a Hidden Role of Self-Organizing Extracellular Matrix in Hepatic Commitment and Organoid Formation of hiPSCs. *Cell Rep*. 2020 Dec 1; 33(9):108453. PMID: 33264615.
10. Giobbe GG, Crowley C, Luni C, Campinoti S, Khedr M, Kretzschmar K, De Santis MM, Zambaiti E, Michielin F, Meran L, **Hu Q.**, van Son G, Urbani L, Manfredi A, Giomo M, Eaton S, Cacchiarelli D, Li VSW, Clevers H, Bonfanti P, Elvassore N, De Coppi P. Extracellular matrix

hydrogel derived from decellularized tissues enables endodermal organoid culture. *Nat Commun*. 2019 Dec 11; 10(1):5658. PMID: 31827102.

11. **Hu Q**, Luni C, Elvassore N. Microfluidics for secretome analysis under enhanced endogenous signaling. *Biochem Biophys Res Commun*. 2018 Mar 4; 497(2):480-484. PMID: 29425822.
12. Zhang S, Sun J, Liao XP, **Hu QJ**, Liu BT, Fang LX, Deng H, Ma J, Xiao X, Zhu HQ, Liu YH. Prevalence and plasmid characterization of the qnrD determinant in Enterobacteriaceae isolated from animals, retail meat products, and humans. *Microb Drug Resist*. 2013 Aug; 19(4):331-5. PMID: 23557071.

HONORS AND SCHOLARSHIPS

- | | |
|------|---|
| 2022 | Best Poster Award of Annual Aging Research Day, Aging Institute |
| 2021 | ERS Young Scientist Sponsorships, European Respiratory Society |
| 2019 | HELENA Travel Grant for International Conferences, Helmholtz Graduate School Environmental Health |
| 2017 | Short-Term International Visiting Research Fellowship, ShanghaiTech University |
| 2015 | Outstanding Graduate Student Awards, South China Agricultural University |
| 2014 | National Scholarship for Outstanding Students Award, Ministry of Education of P.R.C., China |
| 2013 | National Scholarship for Outstanding Students Award, Ministry of Education of P.R.C., China |

ACADEMIC SERVICE

Conference Service:

- | | |
|------|---|
| 2022 | Conference Assistant, Tissue Fibrosis and Repair: Mechanisms, Human Disease and Therapies (Z4), Keystone Symposia on Molecular and Cellular Biology |
|------|---|

Journal Reviewing:

- | | |
|-------|---|
| 2023- | Reviewer for International Immunopharmacology |
| 2023- | Topic Coordinators and reviewer for Frontiers in Pharmacology |
| 2022- | Early-career reviewer for European Respiratory Journal |
| 2021- | Early-career reviewer for eLife |