

Curriculum vitae

Name: Qianjiang Hu, DVM, MS, PhD

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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 Mentor: <i>Prof. Dr. Dr. Melanie Königshoff</i>	Postdoc Associate
2021 - 2023	University of Pittsburgh School of Medicine, USA Mentor: <i>Prof. Dr. Dr. Melanie Königshoff</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. Gurkar A., Gerencser A., ..., **Hu Q.**, ..., and Passos F., "Spatial mapping of cellular senescence: emerging challenges and opportunities", *Nat. Aging.*, in press (*authors alphabetically ordered*)
2. Wang X., Zhang H., Wang Y., Bramasole L., Guo L., Mourtada F., Meul T., **Hu Q.**, Viteri V., Kammerl I., Königshoff 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
3. Boatz J, Sui J, **Hu Q.**, Li X, Zhang Y, Königshoff M, Kliment C. Loss of ANT1 Increases Fibrosis and Epithelial Cell Senescence in Idiopathic Pulmonary Fibrosis. *bioRxiv* 2022.09.09.507271
4. **Hu Q.**, Königshoff M. Powering the formation of alveoli. *eLife.* 2022 Jun 9;11:e79651. doi: 10.7554/eLife.79651. PMID: 35678384; PMCID: PMC9183231.
5. **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*
6. 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.
7. 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.
8. 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.
9. 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.

10. **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.
11. 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
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Journal Reviewing:

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