

Curriculum Vitae

Cheng-Yu Wu

PhD

d.o.b. October 21st, 1990, in New Taipei City, Taiwan

University Education

- 2016-2023 PhD in Molecular Biology and Medicine of the Lung (MBML), Faculty of Medicine, Justus Liebig University (JLU) Giessen, Germany (Grade: *summa cum laude*)
- 2013-2015 MSc in Bioinformatics and Structural Biology, National Tsing Hua University, Taiwan
- 2009-2013 BSc in Chemistry, National Cheng Kung University, Taiwan

Scientific Career

- Since 2026 Academy Fellow Representative at the Universities of Giessen and Marburg Lung Center (UGMLC)
- Since 2026 Academy Speaker at the Excellence Cluster Cardio-Pulmonary Institute (CPI)
- Since 2023 Postdoctoral researcher, CPI, JLU Giessen, Germany
- 2023 Guest researcher at Max-Planck Heart and Lung Laboratory (IBioBA), Buenos Aires, Argentina
- 2016-2023 Doctoral researcher, Department of Molecular Mechanisms of Emphysema, Hypoxia and Lung Ageing, CPI, JLU Giessen, Germany
- 2013-2015 Student research assistant, Institute of Biotechnology and Pharmaceutical Research, National Health Research Institute (NHRI), Miaoli, Taiwan

Awards and Honors

- 2025 Von Behring-Röntgen-Stiftung research grant for young investigators
- 2024 Annual award of the German Respiratory Society (DGP)

Citation Record

Total citations: 440; h-index:11; h-index since 2021: 11 (Google Scholar May 28th, 2026)

Top-10 selected Publications

Wu C-Y, Cilic A, Pak O, Dartsch RC, Wilhelm J, Wujak M, Lo K, Brosien M, Zhang R, Alkoudmani I, Witte B, Pedersen F, Watz H, Voswinckel R, Günther A, Ghofrani HA, Brandes RP, Schermuly RT, Grimminger F, Seeger W, Sommer N, Weissmann N, Hadzic S. CEACAM6 as a Novel Therapeutic Target to Boost HO-1-mediated Antioxidant Defense in COPD. *Am J Respir Crit Care Med* 207:1576-1590, 2023. doi: 10.1164/rccm.202208-1603OC. - *project design, cell line establishment, data acquisition and analysis, result interpretation, manuscript writing; shows expertise in project design and management, cell nitrosative/oxidative stress and defence.*

Hadzic S, **Wu C-Y**, Gredic M, Pak O, Kraut S, Kojonazarov B, Wilhelm J, Brosien M, Bednorz M, Seimetz M, Gunther A, Kosanovic D, Sommer N, Warburton D, Grimminger F, Ghofrani HA, Schermuly RT, Seeger W, El Agha E, Bellusci S*, Weissmann N*. Fibroblast growth factor 10 reverses cigarette smoke- and elastase-induced emphysema and pulmonary hypertension in mice. *equal contribution. *Eur Respir J* 62: 2201606, 2023 doi: 10.1183/13993003.01606-2022 - *data acquisition and analysis, result interpretation; shows expertise in pulmonary emphysema and chronic obstructive pulmonary disease (COPD).*

Gredic M, **Wu C-Y**, Hadzic S, Pak O, Savai R, Kojonazarov B, Doswada S, Weiss A, Weigert A, Guenther A, Brandes RP, Schermuly RT, Grimminger F, Seeger W, Sommer N, Kraut S, Weissmann N. Myeloid cell-specific deletion of inducible nitric oxide synthase protects against smoke-induced pulmonary hypertension in mice. *Eur Respir J* 59:2101153, 2022. doi: 10.1183/13993003.01153-2021 - *data acquisition and analysis, result interpretation; shows expertise in non-invasive transthoracic echocardiography and COPD-associated PH.*

Veith C*, Vartürk-Özcan I*, Wujak M, Hadzic S, **Wu C-Y**, Knoepp F, Kraut S, Petrovic A, Gredic M, Pak O, Brosien M, Heimbrodt M, Wilhelm J, Weisel F, Malkmus K, Schäfer K, Gall H, Tello K, Kosanovic D, Sarybaev A, Günther A, Brandes RP, Seeger W, Grimminger F, Ghofrani HA, Schermuly RT, Kwapiszewska G, Sommer N, Weissmann N. Secreted protein acidic and rich in cysteine, a novel regulator of vascular cell function in pulmonary hypertension. *Circulation* 145:916-933, 2022. doi: 10.1161/CIRCULATIONAHA.121.057001. *equal contribution - *contribution to experimental design, data acquisition and analysis, interpretation of the results; shows expertise in PH.*

Roxlau EZ, Pak O, Hadzic S, Garcia-Castro CF, Gredic M, **Wu C-Y**, Schäffer J, Selvakumar B, Pichl A, Spiegelberg D, Deutscher J, Bednorz M, Schäfer K, Kraut S, Kosanovic D, Zeidan EM, Kojonazarov B, Herold S, Strielkov I, Guenther A, Wilhelm J, Khalifa MAM, Taye A, Brandes RP, Hecker M, Grimminger F, Ghofrani HA, Schermuly RT, Seeger W, Sommer N, Weissmann N. Nicotine promotes e-cigarette vapour-induced lung inflammation and structural alterations *Eur Respir J* 61:2200951, 2023. doi: 10.1183/13993003.00951-2022 - *data acquisition and analysis, result interpretation; shows expertise in pulmonary emphysema and COPD.*

Seimetz M*, Sommer N*, Bednorz M*, Pak O, Veith C, Hadzic S, Gredic M, Parajuli N, Kojonazarov B, Kraut S, Wilhelm J, Knoepp F, Henneke I, Pichl A, Kanbagli ZI, Scheibe S, Fysikopoulos A, **Wu C-Y**,..., *et al.* NADPH oxidase subunit NOXO1 is a target for emphysema treatment in COPD. *equal contribution. *Nat Metab* 2:532-546, 2020. doi: 10.1038/s42255-020-0215-8. *Equal contribution - *contribution to experimental design, in vivo/in vitro experiments, histology, data acquisition and analysis, interpretation of the results; shows expertise in NOXO1-mediated oxidative stress, pulmonary emphysema and PH.*

Hadzic S, Gredic M, Nebel V, Weissmann N, **Wu C-Y**. Spatial Protein Expression Analysis in Lungs Using Capillary-Based Immunoassay After Laser-Assisted Microdissection. *Cells*. 2026; 15(8):737. <https://doi.org/10.3390/cells15080737> - *data acquisition and analysis, result interpretation, Study design and supervision; shows expertise in molecular biology techniques on investigations of protein expression levels*

Hadzic S, **Wu C-Y**, Gredic M, Kojonazarov B, Pak O, Kraut S, Sommer N, Kosanovic D, Grimminger F,

Schermuly RT, Seeger W, Bellusci S, Weissmann N. The effect of long-term doxycycline treatment in a mouse model of cigarette smoke-induced emphysema and pulmonary hypertension. **Am J Physiol Lung Cell Mol Physiol** 320:L903-L915, 2021. doi: 10.1152/ajplung.00048.2021 - *data acquisition and analysis, result interpretation; shows expertise in non-invasive transthoracic echocardiography and COPD-associated PH.*

Malainou C, Peteranderl C, Ferrero MR, Vazquez-Armendariz AI, Alexopoulos I, Franz K, Knippenberg K, Better J, Estiri M, **Wu C-Y**, Schultheis H, Bushe J, del Rio, ML, Rodriguez-Barbosa JI, Pfeffer K, Günther S, Looso M, Gruber AD, Vadász I, Matt U, Herold S. TNF Superfamily Member 14 Drives Post-Influenza Depletion of Alveolar Macrophages Enabling Secondary Pneumococcal Pneumonia. **J Clin Invest.** 2025 Nov 18:e185390. doi: 10.1172/JCI185390. - *data acquisition, analysis, and result interpretation.*

Wujak M, Veith C, **Wu C-Y**, Wilke T, Kanbagli ZI, Novoyatleva T, Guenther A, Seeger W, Grimminger F, Sommer N, Schermuly RT, Weissmann N. Adenylate Kinase 4 – A Key Regulator of Proliferation and Metabolic Shift in Human Pulmonary Arterial Smooth Muscle Cells via Akt and HIF-1 α Signaling Pathways. **Int J Mol Sci** 22(19):10371, 2021. doi: 10.3390/ijms221910371 - *data acquisition and analysis, result interpretation, shows expertise in mechanisms underlying hypoxia-induced metabolic shift in cells.*