

Curriculum Vitae

Astrid Weiß Dr. phil. nat.
d.o.b. December 30th, 1980, in Hanau, Germany

University Education

2010 Doctorate Biochemistry, Georg-Speyer-Haus, Goethe-University Frankfurt (GU-Ffm)
2000–2004 Studies of Biochemistry, GU-Ffm

Scientific Career

Since 2026 Co-Director of the *International Kinome Society*
Since 2025 Scientific manager of the technology module *Kinomics*, JLU-Gi
Since 2025 PI (Principal investigator) at the German Cancer for Lung Research (DZL), JLU-Gi
Since 2024 PI within the CRC1213 *Pulmonary Hypertension and Cor pulmonale*, JLU-Gi
Since 2024 Tutor of the JLU Trainee program, JLU-Gi
Since 2022 Member of the PhD committee of the Cardio-Pulmonary Institute, JLU-Gi
Since 2021 Project leader for animal studies according to EU category B (FELASA C), JLU-Gi
Since 2020 Reviewer activity for scientific journals
Since 2019 Scientific head of the Kinome platform (PamStation), JLU-Gi
Since 2017 Lecturer and supervisor in Section 3. Heart, Lung and Blood Vessels of the GGL, JLU-Gi
Since 2011 Project manager and biosafety officer for genetic engineering facilities up to S2, JLU-Gi
Since 2011 Postdoc with R. Schermuly, Department of Medicine, JLU-Gi
2010–2011 Postdoc with S. Fulda, Institute for Experimental Cancer Research in Pediatrics, GU-Ffm

Awards and Honors

2023 Certificate as qualified operator first-in-Germany of the PamStation (Kinome profiling)
2019 Research award (René-Baumgart foundation)
2005–2008 PhD stipend (Graduate study program GK 1172 Biologicals)
2004–2005 Diploma stipend (Degussa foundation)

Citation Record

Total citations: 1202; h-index: 19 (Google Scholar, March 19th, 2026)

Top-10 selected Publications

Simoes de Jesus D, Buffonge S, Abis G, Buccafusca R, Baliga R, Warren HR, Hobbs A, Ruppert C, **Weiss A**, Schermuly RT, Eaton P, Charles RL. Zinc-mediated Inhibition of Soluble Epoxide Hydrolase Promotes Pulmonary Hypertension. *Am J Respir Crit Care Med*. 2025 Sep;211(9):1689-1700. doi: [10.1164/rccm.202409-1763OC](https://doi.org/10.1164/rccm.202409-1763OC).

Schlueter BC, Quanz K, Baldauf J, Petrovic A, Ruppert C, Guenther A, Gall H, Grimminger F, Ghofrani HA, Weissmann N, Seeger W, Schermuly RT*, **Weiss A***. (*equal contribution). The diverging roles of insulin-like growth factor binding proteins in pulmonary arterial hypertension. *Vascul Pharmacol*. 2024 May 16:107379. doi: [10.1016/j.vph.2024.107379](https://doi.org/10.1016/j.vph.2024.107379).

Pervizaj-Oruqaj L*, Selvakumar B*, Ferrero M*, Heiner M, Malainou C, Glaser RD, Wilhelm J, Bartkuhn M, **Weiss A**, Witte B, Gattenlöhner S, Vadasz I, Morty RE, Seeger W, Schermuly RT, Vazquez-Armendariz AI, Herold S. (*equal contribution) Alveolar macrophage-expressed Plet1 is a driver of lung epithelial repair after viral pneumonia. *Nat Commun*. 2024 Jan 2;15(1):87. doi: [10.1038/s41467-023-44421-6](https://doi.org/10.1038/s41467-023-44421-6).

Knight H, Abis G, Kaur M, Green HLH, Krasemann S, Hartmann K, Lynham S, Clark J, Zhao L, Ruppert C, **Weiss A**, Schermuly RT, Eaton P, Rudyk O. Cyclin D-CDK4 Disulfide Bond Attenuates Pulmonary Vascular Cell Proliferation. *Circ Res*. 2023 Dec 8;133(12):966-988. doi: [10.1161/CIRCRESAHA.122.321836](https://doi.org/10.1161/CIRCRESAHA.122.321836).

Nayakanti S, Friedrich A, Sarode P, Jafari L, Maroli G, Boehm M, Bourgeois A, Grobs Y, Dabral S, Wilhelm J, **Weiss A**, Wietelmann A, Kojonazarov B, Janssen W, de Man F, Provencher S, Seeger W, Bonnet S, Savai R, Schermuly R, Pullamsetti S. Targeting Wnt- β -Catenin-FOSL signaling ameliorates right ventricular remodeling and function. *Circ Res*. 2023 May 26;132(11):1468-1485. doi: [10.1161/CIRCRESAHA.122.321725](https://doi.org/10.1161/CIRCRESAHA.122.321725).

Wasnick R, Korfei M, Piskulak K, Henneke I, Wilhelm J, Mahavadi P, Dartsch RC, von der Beck D; Koch M, Shalashova I, **Weiss A**, Klymenko O, Askevold I, Fink L, Witt H, Hackstein H, El Agha E, Bellusci S, Klepetko W, Königshoff M, Eickelberg O, Schermuly R, Braun T, Seeger W, Ruppert C, Guenther A. Notch1 induces defective epithelial surfactant processing and pulmonary fibrosis. *Am J Respir Crit Care Med*. 2022 Sep 1. doi: [10.1164/rccm.202105-1284OC](https://doi.org/10.1164/rccm.202105-1284OC).

Weiss A*, Alack K*, Klatt S, Zukunft S, Schermuly RT, Frech T, Mooren FC, Krüger K. (*equal contribution). Sustained endurance training leads to metabolomic adaptation. *Metabolites*. 2022 Jul 16;12(7):658. doi: [10.3390/metabo12070658](https://doi.org/10.3390/metabo12070658).

Gredic M, Wu CY, 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*. 2021 Sep 2;2101153. doi: [10.1183/13993003.01153-2021](https://doi.org/10.1183/13993003.01153-2021).

Yerabolu D*, **Weiss A***, Kojonazarov B, Boehm M, Schlueter BC, Ruppert C, Günther A, Jonigk D, Grimminger F, Ghofrani HA, Seeger W, Weissmann N, Schermuly RT. (*equal contribution). Targeting Jak-Stat Signaling in Experimental Pulmonary Hypertension. *Am J Respir Cell Mol Biol*. 2021 Jan;64(1):100-114. doi: [10.1165/rcmb.2019-0431OC](https://doi.org/10.1165/rcmb.2019-0431OC).

Weiss A*, Neubauer MC*, Yerabolu D, Kojonazarov B, Schlueter BC, Maegel L, Jonigk D, Baal N, Ruppert C, Dorfmueller P, Pullamsetti S, Weissmann N, Ghofrani HA, Grimminger F, Seeger W, Schermuly RT. (*equal contribution). Targeting cyclin-dependent kinases for the treatment of pulmonary arterial hypertension. *Nat Commun*. 2019 May 17;10(1):2204. doi: [10.1038/s41467-019-10135-x](https://doi.org/10.1038/s41467-019-10135-x).