DZL Academy Publication Award 2024

1st place

Pervizaj-Oruqaj L, Selvakumar B, Ferrero MR, Heiner M, Malainou C, Glaser RD, Wilhelm J, Bartkuhn M, Weiss A, Alexopoulos I, Witte B, Gattenlöhner S, Vadász I, Morty RE, Seeger W, Schermuly RT, Vazquez-Armendariz AI, Herold S. 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.

2nd place

Hadzic S, Wu CY, Gredic M, Pak O, Loku E, Kraut S, Kojonazarov B, Wilhelm J, Brosien M, Seimetz M, Günther A, Kosanovic D, Sommer N, Warburton D, Li X, 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. Eur Respir J. 2023 Nov 9;62(5):2201606. doi: 10.1183/13993003.01606-2022.

3rd place

Diaz-Jimenez A, **Ramos M,** Helm B, Chocarro S, Frey DL, Agrawal S, Somogyi K, Klingmüller U, Lu J, Sotillo R. Concurrent inhibition of ALK and SRC kinases disrupts the ALK lung tumor cell proteome. Drug Resist Updat. 2024 May;74:101081. doi: 10.1016/j.drup.2024.101081. Epub 2024 Mar 19.

Evaluation Criteria

- Translational potential and/or impact of the work described in the paper
- Proof of originality of concept and idea in respective research field
- Innovation: Likelihood that reported findings will advance field
- Quality of written statement/translational, where the relevance is aptly described
- Evidence of original contribution to the publication by the applicant

DZL Academy Publication Award Committee 2024

- Prof. Silke Meiners (ARCN)
- Dr. med. Da-Hee Park (BREATH)
- Dr. rer. nat. Gerald Burgstaller (CPC-M)
- Prof. Dr. med. Franziska Trudzinski (TLRC)
- Prof. Christina Eichstaedt (TLRC)

Further applicants in alphabetical order:

Almeida SD, Norajitra T, Lüth CT, Wald T, Weru V, Nolden M, Jäger PF, von Stackelberg O, Heußel CP, Weinheimer O, Biederer J, Kauczor HU, Maier-Hein K. Prediction of disease severity in COPD: a deep learning approach for anomaly-based quantitative assessment of chest CT. Eur Radiol. 2023, Dec 27. doi: 10.1007/s00330-023-10540-3.

Gress C, Litzenburger T, Schmid R, Xiao K, Heissig F, Muller M, Gupta A, Hohlfeld JM. Transcriptomic characterization of the human segmental endotoxin challenge model. Sci Rep. 2024, Jan 19;14(1):1721. doi: 10.1038/s41598-024-51547-0.

Karger A, Mansouri S, Leisegang MS, Weigert A, Günther S, Kuenne C, Wittig I, Zukunft S, Klatt S, Aliraj B, Klotz LV, Winter H, Mahavadi P, Fleming I, Ruppert C, Witte B, Alkoudmani I, Gattenlöhner S, Grimminger F, Seeger W, Pullamsetti SS, Savai R. ADPGK-AS1 long noncoding RNA switches macrophage metabolic and phenotypic state to promote lung cancer growth. EMBO J. 2023, Sep 18;42(18):e111620. doi: 10.15252/embj.2022111620.

Khassafi F, Chelladurai P, Valasarajan C, Nayakanti SR, Martineau S, Sommer N, Yokokawa T, Boucherat O, Kamal A, Kiely DG, Swift AJ, Alabed S, Omura J, Breulis-Bonnet S, Kuenne C, Potus F, Günther S, Savai R, Seeger W, Looso M, Lawrie A, Zaugg JB, Tello K, Provencher S, Bonnet S., Pullamsetti S.S. Transcriptional profiling unveils molecular subgroups of adaptive and maladaptive right ventricular remodeling in pulmonary hypertension. Nat Cardiovasc Res. 2023, 2: 917-936. doi: 10.1038/s.44161-023-00338-3

Burt M, Angelidou G, Mais CN, Preußer C, Glatter T, Heimerl T, Groß R, Serrania J, Boosarpu G, Pogge von Strandmann E, Müller JA, Bange G, Becker A, Lehmann M, Jonigk D, Neubert L, Freitag H, Paczia N, Schmeck B, **Jung AL**. Lipid A in outer membrane vesicles shields bacteria from polymyxins. J Extracell Vesicles 2024, May;13(5):e12447. doi: 10.1002/jev2.12447.

Ostermann L, Seeliger B, David S, Flasche C, Maus R, Reinboth MS, Christmann M, Neumann K, Brand K, Seltmann S, Bühling F, Paton JC, Roth J, Vogl T, Viehmann D, Welte T, Maus UA. S100A9 is indispensable for survival of pneumococcal pneumonia in mice. PLoS Pathog. 2023, Jul 19;19(7):e1011493. doi: 10.1371/journal.ppat.1011493. eCollection 2023 Jul.

Roeder F, Röpke T, Steinmetz LK, Kolb M, Maus UA, Smith BJ, Knudsen L. Exploring alveolar recruitability using positive end-expiratory pressure in mice overexpressing TGF-β1: a structure-function analysis. Sci Rep. 2024, Apr 6;14(1):8080. doi: 10.1038/s41598-024-58213-5.

Wernz MM, Voskrebenzev A, Müller RA, Zubke M, Klimeš F, Glandorf J, Czerner C, Wacker F, Olsson KM, Hoeper MM, Hohlfeld JM, Vogel-Claussen J. Feasibility, Repeatability, and Correlation to Lung Function of Phase-Resolved Functional Lung (PREFUL) MRI-derived Pulmonary Artery Pulse Wave Velocity Measurements. J Magn Reson Imaging 2024. Mar 9. doi: 10.1002/jmri.29337.