

Curriculum Vitae

Baktybek Kojonazarov MD, PhD
d.o.b. August 19, 1974, in Bishkek, Kyrgyz Republic

University Education

2005 PhD in Medical Science
1999 MD, Clinical residency
1991-1997 Studies of Medicine, Kyrgyz State Medical Academy (KSMA), Bishkek, Kyrgyz Republic

Scientific Career

1997-1999 Clinical Resident, National Center of Cardiology and Internal Medicine (NCCIM)
1999-2001 Physician researcher NCCIM
2001-2002 Research Fellow - Erasme Hospital, Laboratory R. Naeije
2002-2004 Physician researcher NCCIM
2005-2007 Senior researcher, Institute of Molecular Biology and Medicine, NCCIM
2007-2009 Scientific officer, Institute of Molecular Biology and Medicine, NCCIM
2009-2020 Postdoctoral scientist, Justus-Liebig University of Giessen (JLUG), Germany
Since 2020 head of the Small Animal Imaging Platform, Institute for Lung health (ILH), JLUG
Since 2016 Principal investigator CRC1213, Central project 02
Since 2017 Faculty member German center for Lung Research (DZL)
Since 2019 Faculty member UGMLC
Since 2021 Academy board member ILH
Since 2023 Visiting professor KSMA

Awards and Honors

2023 Honorary Professor KSMA
2017 Poster Award DZL
2014 Young Investigator Award, Visualsonics, American heart Association
2005 Honorary Diploma National Academy of Science, Bishkek, Kyrgyz Republic
2004 Research grant, stipend of the president of the Kyrgyz Republic

Citation Record

Total citations: 4576; h-index:34 (Google Scholar March 25th, 2026)

Top-10 selected Publications

Kojonazarov B, Kremer N, Pilz C, Ghofrani HA, Weissmann N, Naeije R, Seeger W, Schermuly RT, Tello K. Single- versus multiple-beat measurement of right ventricular function in rodents. *Am J Respir Cell Mol Biol*. 2024 Jul;71(1):133-135. doi: 10.1165/rcmb.2023-0407LE.

Henneke I, Pilz C, Wilhelm J, Alexopoulos I, Ezaddoustdar A, Mukhametshina R, Weissmann N, Ghofrani HA, Grimminger F, Seeger W, Schermuly RT, Wygrecka M, **Kojonazarov B**. Microscopic computed tomography with AI-CNN-powered image analysis: the path to phenotype bleomycin-induced lung injury. *Am J Physiol Cell Physiol*. 2024 Jun 1;326(6):C1637-C1647. doi: 10.1152/ajpcell.00708.2023.

Kojonazarov B, Weissmann N, Seeger W, Schermuly RT. A novel noninvasive method for estimating right ventricular systolic pressure in rodents with pulmonary artery banding *Cardiol J*. 2023;30(5):849-851. doi: 10.5603/cj.93650.

Tello K*, Kremer N*, Richter MJ, Gall H, Muenks J, Ghofrani A, Schermuly R, Naeije R, **Kojonazarov B***, Seeger W. Inhaled Iloprost Improves Right Ventricular Load Independent Contractility in Pulmonary Hypertension. *Am J Respir Crit Care Med*. 2022 Jul 1;206(1):111-114. doi: 10.1164/rccm.202201-0095LE. *equally contributed

Kojonazarov B, Hadzic S, Ghofrani HA, Grimminger F, Seeger W, Weissmann N, Schermuly RT. Severe Emphysema in the SU5416/Hypoxia Rat Model of Pulmonary Hypertension. *Am J Respir*

Crit Care Med. 2019 Aug 15;200(4):515-518. doi: 10.1164/rccm.201902-0390LE.

Kojonazarov B, Belenkov A, Shinomiya S, Wilhelm J, Kampschulte M, Mizuno S, Ghofrani HA, Grimminger F, Weissmann N, Seeger W, Schermuly RT. Evaluating Systolic and Diastolic Cardiac Function in Rodents Using Microscopic Computed Tomography. **Circ Cardiovasc Imaging.** 2018Dec;11(12):e007653. doi:10.1161/CIRCIMAGING.118.007653.

Pullamsetti SS*, **Kojonazarov B***, Storn S*, Gall H, Salazar Y, Wolf J, Weigert A, El-Nikhely N, Ghofrani HA, Krombach GA, Fink L, Gattenlöhner S, Rapp UR, Schermuly RT, Grimminger F, Seeger W, Savai R. Lung cancer-associated pulmonary hypertension: Role of microenvironmental inflammation based on tumor cell-immune cell cross-talk. **Sci Transl Med.** 2017 Nov 15;9(416):eaai9048. doi: 10.1126/scitranslmed.aai9048. *equally contributed

Kojonazarov B, Novoyatleva T, Boehm M, Happe C, Sibinska Z, Tian X, Sajjad A, Luitel H, Kriechling P, Posern G, Evans SM, Grimminger F, Ghofrani HA, Weissmann N, Bogaard HJ, Seeger W, Schermuly RT. p38 MAPK Inhibition Improves Heart Function in Pressure-Loaded Right Ventricular Hypertrophy. **Am J Respir Cell Mol Biol.** 2017 Nov;57(5):603-614. doi: 10.1165/rcmb.2016-0374OC

Boehm M, Lawrie A, Wilhelm J, Ghofrani HA, Grimminger F, Weissmann N, Seeger W, Schermuly RT, **Kojonazarov B**. Maintained right ventricular pressure overload induces ventricular-arterial decoupling in mice. **Exp Physiol.** 2017 Feb 1;102(2):180-189. doi: 10.1113/EP085963.

Savai R, Al-Tamari HM, Sedding D, **Kojonazarov B**, Muecke C, Teske R, Capecchi MR, Weissmann N, Grimminger F, Seeger W, Schermuly RT, Pullamsetti SS. Pro-proliferative and inflammatory signaling converge on FoxO1 transcription factor in pulmonary hypertension. **Nat Med.** 2014 Nov;20(11):1289-300. doi: 10.1038/nm.3695.

Kojonazarov BK, Imanov BZ, Amatov TA, Mirrakhimov MM, Naeije R, Wilkins MR, Aldashev AA. Noninvasive and invasive evaluation of pulmonary arterial pressure in highlanders. **Eur Respir J.** 2007 Feb;29(2):352-6. doi: 10.1183/09031936.00137605.