

Laszlo Farkas, M.D.

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Current Position(s)

Associate Professor
Department of Internal Medicine, Division of Pulmonary, Critical Care and
Sleep Medicine
The Ohio State University Wexner Medical Center
Columbus, Ohio

Education

Postdoctoral training <i>Topic: Progenitor cells in Pulmonary Hypertension</i> Virginia Commonwealth University, Department of Medicine, Division of Pulmonary Disease and Critical Care Medicine	2010 – 2011
Postdoctoral training, <i>Topic: Vascular and tissue remodeling in pulmonary fibrosis</i> McMaster University, Department of Medicine, Firestone Institute for Respiratory Health, Hamilton, ON, Canada	2006 – 2010
Residency training, Internal Medicine University Hospital, University of Regensburg, Germany	2003 – 2006
M.D. (M.D. Ph.D. equivalent), doctoral thesis <i>summa cum laude</i> University of Regensburg, Germany	2000 – 2003
Medical School, University of Regensburg, Germany	1998 – 2003

Academic Appointments *[Note: in reverse chronological order]*

Associate Professor of Medicine The Ohio State University, Department of Internal Medicine, Division of Pulmonary, Critical Care and Sleep Medicine	2019 – Present
Assistant Professor of Medicine Virginia Commonwealth University, Department of Medicine, Division of Pulmonary Disease and Critical Care Medicine	2013 – 2019
Instructor of Medicine Virginia Commonwealth University, Department of Medicine, Division of Pulmonary Disease and Critical Care Medicine	2011 – 2013

Professional Memberships and Activities

American Thoracic Society ATS, Active Member, Program Committee and Early Career Committee, PC Assembly	2020-present
ATS, Working group on stem cells and cell therapies, RCMB Assembly	2012-2017
American Heart Association	
American Physiological Society	

Committee Assignments and Administrative Services

Promotion and Tenure Committee, Department of Internal Medicine, OSUMC	2020 - present
Organizing Committee Vermont Stem Cell conference "Stem Cells, Cell Therapies and Bioengineering in Lung Biology & Lung Diseases"	2013, 2015 and 2017
Alternate Member, Institutional Animal Care and Utilization Committee, VCU	2016-2019

Educational Activities

Teaching and Mentoring

Small group instructor, BSGP 7070, Fundamentals of Grant Writing,	2020- present
MICR505 Immunology course (graduate level), Lectures on autoimmunity.	2017-2018

Educational webinar about mesenchymal stem cells for the ATS stem cell working group/
Respiratory Cell and Molecular Biology Assembly. 01/2014

Faculty mentoring committee for Dr. Matthew Long, Assistant Professor, PCCS and MI&I, OSU 2021-present

Reviews

Associate Editor, Frontiers in Pediatrics, Section of Pediatric Pulmonology
Review Editor, Frontiers in Medicine
Academic Editor, PlosONE
Editor Board, International Journal of Molecular Science

Ad-hoc peer reviewer (Science Advances, Nature Cardiovascular Research, Circulation, Circulation Research, Chest, JAHA, Am J Respir Crit Care Med, Am J Respir Cell Mol Biol, JBC, Eur Respir J, Am J Physiol-Lung Cell Mol Physiol, Journal of Scientific Research and Reports, Stem Cell Research & Therapy, Cellular Immunology, Innate Immunity, Respirology, Respiration, Respiratory Research, PlosONE, Frontiers in Medicine, BMC Pulmonary Medicine)

Reviewer, Congressional Directed Medical Research Program
PRMRP (study section, ad-hoc online and in-person reviewer) 2014, 2015, 2017, 2018, 2019, 2020

Reviewer, Special Emphasis Panel/Scientific Review Group CVRS-Q (11) 2017
National Heart Lung and Blood Institute, National Institutes of Health

Reviewer, Special Emphasis Panel/Scientific Review Group ZHL1 CSR-R S1 1, National Heart Lung and Blood Institute, National Institutes of Health 2017

Reviewer, Special Emphasis Panel/Scientific Review Group ZHL1 CSR-P (S1), National Heart Lung and Blood Institute, National Institutes of Health, 2014

Reviewer, 19-20 Fellowships Lung and Cardiac Arrest, American Heart Association 2019

Reviewer, Special Emphasis Panel/Scientific Review Group ZRG1 CVRS G (03) 2019
National Heart Lung and Blood Institute, National Institutes of Health

Chair, CDMRP PRMRP panels 2020-2022

Reviewer, Adhoc, RIBT 6/2020 meeting, National Heart Lung and Blood Institute, National Institutes of Health 2020

Reviewer, Special Emphasis Panel/Scientific Review Group 2021/01 ZRG1 CVRS-G (03) M Member Conflict: Lung Diseases	2020
Rewriter, American Heart Association, 2021 Fellowships Organ Studies 4	2021
Reviewer, RIBT 2/2021 meeting, National Heart Lung and Blood Institute, National Institutes of Health	2021
Reviewer, OSUMC DOM Pilot Grant Program	2021
Reviewer, RIBT 6/2021 meeting, National Heart Lung and Blood Institute, National Institutes of Health	2021
Chair, CDMRP PRMRP Discovery Award panel	2021
Reviewer, ZRG1 CVRS-G (03) M special emphasis panel, NHLBI, NIH	2021
Reviewer, American Heart Association, COVID-19 grant program	2022
Reviewer, Binational Science Foundation	2022
Reviewer, NHLBI Catalyze SEP Review Meeting	2022
Reviewer, British Heart Foundation	2022
Chair, CDMRP PRMRP panels (2)	2022

Trainees

- Geoff Newcombe, MD, Pulmonary Fellow, (Research Advisor), 2022-
- Jaylen Hudson, MDCB Ph.D. student, 2021- (thesis advisor).
- Pranav Gunturu, OSU undergraduate student, research volunteer 2020-2021, student research assistant 2022- (supervisor)
- Said Amissi, Postdoctoral Fellow, 2020
- Aneel Bhagwani, VCU Physiology PhD Program, Fulbright Scholarship (Advisor/Supervisor), 2017-2021, graduation 2021, currently Assistant Professor, Ziauddin University, Karachi, Pakistan.
- Victor Jalamov, OSU undergraduate student, research volunteer, 2019 (supervisor)
- Patrick Link, VCU Bioengineering PhD Program, graduated 2019 (Advisory Committee)
- Andrea Luker, VCU Immunology PhD Program, graduated 2019 (Advisory Committee)
- Robert Pouliot, VCU Bioengineering PhD Program, graduated 2017 (Advisory Committee)
- Yumna Rahman, VCU MSIP high school student, 2018 (Supervisor)
- Dillon Persaud, Undergraduate summer research (Johns Hopkins University), 2018 (Supervisor)
- Yayi Feng, VCU undergraduate summer research, 2018 (Supervisor)
- Arsema Zadu, undergraduate summer research (Duke University), 2017 (Supervisor)
- Rebecca Moncayo, VCU undergraduate summer research, 2017 (Supervisor)
- Dr. Grant Farr, VCU Pulmonary and Critical Care Division Fellow, laboratory research rotation, 2017 (Supervisor)
- Naveen Kotha, VCU undergraduate independent study program, 2017 (Supervisor)

- Kavailya Dandamudi, VCU undergraduate summer research, 2016 (Supervisor)
- Stephanie Nguyen, VCU undergraduate summer research, 2016 (Supervisor)
- Neil Blanchard, medical undergraduate summer research (Marshall University), 2016 (Supervisor)
- Hyun Ji, VCU undergraduate summer research, 2015 (Supervisor)

Honors and Awards

Faculty Travel Award, Department of Internal Medicine, VCU 2013, 2015

First recipient of the "Sir John Vane Award for Innovation in Pulmonary Vascular Research related to Pulmonary Hypertension" at the European Respiratory Society Conference, Barcelona, Spain 2010

"Young Scientist Cell and Molecular Biology Travel Award" at the European Respiratory Society conference, Berlin, Germany 2008

Poster Award, St. Joseph's Healthcare Father Sean O'Sullivan Research Center Research Day, Hamilton, ON, Canada 2008

German Academic Society for Foreign Countries (DAAD) Scholarship for participation in Canadian Senior Medical Student Elective Program 2002

Grants and Contract Awards

Active Grants:

1R01HL139881 (PI Laszlo Farkas), NIH/NHLBI. Endothelial Toll-like Receptor 3 in the Pathogenesis and Therapy of Pulmonary Arterial Hypertension. 1/1/2019 – 12/31/2022. Direct costs: \$1,781,370.00. Indirect costs: \$808,162.00. Total costs: \$2,589,532.00. Role: Principal Investigator. Effort: 40%.

Pending Grants:

R01HL168548 (PI Laszlo Farkas), NHLBI/NIH. The role of endolysosomal RAB7 in pulmonary endothelial cell function. 04/01/2023-03/31/2027. Direct costs: \$2,222,892. Indirect costs: \$857,980. Total costs: \$3,080,872. Role: Principal Investigator. Effort: 50%. Pending IRG review

R01HL166919 (MPI Laszlo Farkas, Richard Robinson), NIH/NHLBI. SARS-CoV-2-induced lung vascular remodeling. 12/01/2022-11/30/2026. Direct costs: \$1,926,302. Indirect costs: \$1,044,837. Total costs: \$2,971,139. Role: Contact-Principal Investigator. Effort 25%. In resubmission

Completed Grants:

1R21HL123044 (PI Laszlo Farkas), NIH/NHLBI. Central role of endothelial stem cells in pulmonary arterial hypertension. 08/01/2016 - 07/31/2019 (no cost extension). Total direct costs: \$275,000.00 (+ \$54,356.00 consortium F&A). Indirect costs: \$125,098.00. Total costs: \$454,454.00. Role: Principal Investigator. Effort: 40%.

CCTR Endowment Fund (PI Laszlo Farkas), CCTR VCU. A new model of Pulmonary Arterial Hypertension based on endothelial stem cells. 04/01/2016 - 07/31/2016. Total costs: \$44,201. Role: Principal Investigator.

PT111546 (PI Laszlo Farkas), Keck Graduate Institute. Efficacy of two Investigational Small Molecules against Pulmonary Arterial Hypertension. 10/24/2014 - 10/24/2015. Total direct costs: \$562. Indirect costs: \$0. Total costs: \$562. Role: Principal Investigator. Effort: 1%.

13SDG16360018 (PI Laszlo Farkas), American Heart Association. NF-kappaB in severe pulmonary arterial hypertension. 07/01/2013-06/30/2018. Total direct costs: \$280,000. Indirect costs: \$28,000. Total costs: \$308,000. Role: Principal Investigator. Effort: 34%

1 R03 HL114816 (PI Laszlo Farkas), NIH/NHLBI. Precursor cells in human pulmonary hypertension. 08/01/2012 - 12/30/2014. Total direct costs: \$100,000. Indirect costs: \$49,500. Total costs: \$149,500. Role: Principal Investigator. Effort: 20%

PT107014 (PI Laszlo Farkas), Carolus Therapeutics. Effects of CT-2009 in a rat model of severe angioproliferative pulmonary hypertension and right heart failure. 01/01/2012 – 04/30/2012. Total direct costs: \$18,538. Total indirect costs: \$9,176. Total costs: \$27,714. Role: Principal Investigator. Effort: 25%

A.D. Williams Grant Program (PI: Laszlo Farkas). Anti-inflammatory treatment as a potential new therapeutic option for angioproliferative pulmonary hypertension. 04/01/2012 - 03/31/2013. Total direct costs: \$14,922.30. Indirect costs: \$0. Total costs: \$14,922.30. Role: Principal Investigator.

FA841/2-1 Postdoctoral Fellowship (Laszlo Farkas), German Research Foundation (Deutsche Forschungsgemeinschaft): [Characterization of the AdTGF- β 1 lung fibrosis model as a model of secondary pulmonary hypertension: Relevance of pro- and anti-angiogenic factors and evaluation of novel therapeutics] [german]. 04/01/2008 – 03/31/2010.

Publications

Peer-review journals

1. Johnson, B., Chafin, L., Farkas, D., Adair, J., Elhance, A., **Farkas, L.**, Bednash, J.S., Londino, J. MicroID: A Novel Biotin Ligase Enables Rapid Proximity Ligation Proteomics. (2022) *Molecular & Cellular Proteomics* Jul;21(7):100256. PMID: 35688383; PMCID: PMC9293651
2. Rosas Mejia, O., Gloag, E., Li, J., Ruane-Foster, M., Claeys, T., Farkas, D., **Farkas, L.**, Xin, G., Robinson, R. Mice infected with Mycobacterium tuberculosis are resistant to secondary infection with SARS-CoV-2. (2022) *PLoS Pathog.* 18(3):e1010093. PubMed PMID: 35325013; PMCID: PMC8946739.
3. Bednash, J.S., Kagan, V.E., Englert, J.A., Farkas, D., Tyurina, Y.Y., Tyurin, V.A., Samovich, S.N., **Farkas, L.**, Elhance, A., Johns, F., Lee, H., Cheng, L., Majumdar, A., Jones, D., Mejia, O.R., Ruane-Foster, M., Londino, J.D., Mallampalli, R.K., Robinson, R.T. Syrian hamsters as a model of lung injury with SARS-CoV-2 infection: pathologic, physiologic and detailed molecular profiling. (2022) *Transl Res.* Feb;240:1-16. Epub 2021/11/07. PubMed PMID: 34740873; PMCID: PMC8562047
4. Bhagwani, A.R.* , Farkas, D.* , Harmon, B., Authelet, K.J., Hultman, S.S., Cool, C.D., Kolb, M.R.J., Goncharova, E.A., Yoder, M.C., Clauss, M., Freishtat, R., **Farkas, L.** Clonally selected primitive endothelial cells promote occlusive pulmonary arteriopathy and severe pulmonary hypertension in rats exposed to chronic hypoxia. (2020) *Sci Rep* 10(1) 1136. PMID: 31980720 PMCID: PMC6981224.
5. Bhagwani, A.R.* , Hultman, S.* , Farkas, D.* , Moncayo, R., Dandamudi, K., Zadu, A., Cool, C.D., **Farkas, L.** Endothelial cells are a source of Nestin expression in Pulmonary Arterial Hypertension. (2019) *PLoS One* 14(3):e0213890. PMID: 30883593 PMCID: PMC6422269
6. Farkas, D.* , Thompson, A.A.R.* , Bhagwani, A.R., Hultman, S., Ji, H., Kotha, N., Farr, G., Arnold, N.D., Braithwaite, A., Casbolt, H., Cole, J.E., Sabroe, I., Monaco, C., Cool, C.D., Goncharova, E.A., Lawrie, A., **Farkas, L.** Toll-like receptor 3 is a therapeutic target for Pulmonary Hypertension. (2019) *Am J Respir Crit Care Med* 199(2):199-210. PMID: 30211629 PMCID: PMC6353001.

7. Gomez-Arroyo, J., Sakagami, M., Syed, A., **Farkas, L.**, Van Tassell, B., Kraskauskas, D., Mizuno, S., Abbate, A., Bogaard, H.J., Byron, P.R., Voelkel, N.F. Iloprost reverses established Fibrosis in Experimental Right Ventricular Failure. (2015) *Eur Respir J* 45 (2):449-62. Pubmed PMID: 25261325
8. Al-Husseini, A., Wijesinghe, D.S., **Farkas, L.**, Kraskauskas, D., Drake, J.I., Van Tassel, B., Abbate, A., Chalfant, C.E., Voelkel, N.F. Increased eicosanoid levels in the sugen/chronic hypoxia model of severe pulmonary hypertension. (2015) *PLoS One*. 10 (3):e0120157. PubMed PMID: 25785937; PubMed Central PMCID: PMC4364907.
9. Farkas, D.*, Kraskauskas, D.*, Drake, J.I., Alhussaini, A.A., Kraskauskas, V., Bogaard, H.J., Cool, C.D., Voelkel, N.F., **Farkas, L.** CXCR4 Inhibition Ameliorates Severe Obliterative Pulmonary Hypertension and Accumulation of C-kit+ Cells in Rats. (2014) *PLoS One* 9(2): e89810. Pubmed PMID: 24587052. Pubmed Central PMCID: PMC3933653.
10. Farkas, D.*, Alhussaini, A.A.*, Kraskauskas, D., Kraskauskas, V., Cool, C.D., Nicolls, M.R., Natarajan, R., **Farkas, L.** NF- κ B inhibition reduces lung vascular lumen obliteration in severe pulmonary hypertension in rats. (2014) *Am J Respir Cell Mol Biol* 51(3):413-25. Pubmed PMID: 24684441. Pubmed Central PMCID: PMC4189489.
11. Nold-Petry, C.A., Rudloff, I., Baumer, Y., Cho, S.X., Zepp, J.A., Dinkel, H., Palmer, B.E., Azam, T., Ruvo, M., Marasco, D., Botti, P., **Farkas, L.**, Boisvert, W.A., Cool, C.D., Kim, S.H., Taraseviciene-Stewart, L., Dinarello, C., Voelkel, N.F., Nold, M.F. IL-32 Promotes Angiogenesis. (2014) *J Immunol* 192(2): 589-602. Pubmed PMID: 24337385.
12. Venkatesan, N., Tsuchiya, K., Kolb, M., **Farkas, L.**, Bourhim, M., Ouzzine, M., Ludwig, M.S. Glycosyltransferases and Glycosaminoglycans in Bleomycin and Transforming Growth Factor- β 1-Induced Pulmonary Fibrosis. (2014) *Am J Respir Cell Mol Biol* 50(3):583-94. PMID: 24127863.
13. Shojaee, S., Voelkel, N., **Farkas, L.**, de Wit, M., Lee, H.J. Transforming Growth Factor- β 1 Rise in Pleural Fluid After Tunneled Pleural Catheter Placement: Pilot Study. (2013) *J Bronchology Interv Pulmonol*. 20(4):304-8. Pubmed PMID: 24162112.
14. Gomez-Arroyo, J., Mizuno, S., Szczepanek, K., Van Tassell, B., Natarajan, R., Dos Remedios, C.G., Drake, J.I., **Farkas, L.**, Kraskauskas, D., Wijesinghe, D.S., Chalfant, C.E., Bigbee, J., Abbate, A., Lesnefsky, E.J., Bogaard, H.J., Voelkel, N.F. Metabolic Gene Remodeling and Mitochondrial Dysfunction in Failing Right Ventricular Hypertrophy due to Pulmonary Arterial Hypertension. (2013) *Circ Heart Fail* 6(1):136-44. Pubmed PMID: 23152488.
15. Al Husseini, A., Bagnato, G., **Farkas, L.**, Gomez-Arroyo, J., Farkas, D., Mizuno, S., Kraskauskas, D., Abbate, A., Van Tassel, B., Voelkel, N.F., Bogaard, H.J. Thyroid hormone is highly permissive for angioproliferation in pulmonary arterial hypertension. (2013) *Eur Respir J* 41(1):104-14. Pubmed PMID:22835607.
16. Tian, W., Jian, X., Tamosiuniene, R., Sung, Y.K., Qian, J., Dhillon, G., Gera, L., **Farkas, L.**, Rabinovitch, M., Zamanian, R., Inayathullah, M., Fridlib, M., Rajadas, J., Peters-Golden, M., Voelkel, N.F., Nicolls, M.R. Blocking macrophage leukotriene B4 prevents endothelial injury and reverses pulmonary hypertension. (2013) *Sci Transl Med* 5: 200ra117. Pubmed PMID: 23986401.
17. Bogaard, H.J., Mizuno, S., Guignabert, C., Al Hussaini, A.A., Farkas, D., Ruiter, G., Kraskauskas, D., Fadel, E., Allegood, J.C., Humbert, M., Vonk Nordegraaf, A., Spiegel, S., **Farkas, L.**, Voelkel, N.F. Copper dependence of angioproliferation in pulmonary arterial hypertension in rats and humans. (2012) *Am J Respir Cell Mol Biol* 46: 582-91. Pubmed PMID: 22162909; Pubmed Central PMCID:PMC3361355.
18. Mizuno, S., Yasuo, M., Bogaard, H.J., Kraskauskas, D., Alhussaini, A., Gomez-Arroyo, J., Farkas, D., **Farkas, L.**, Voelkel, N.F. Copper deficiency induced emphysema is associated with focal adhesion kinase inactivation. (2012) *PLoS One* 7(1) e30678. Pubmed PMID: 22276220; Pubmed Central PMCID: PMC3262830.

19. Mizuno, S., **Farkas, L.**, Alhussaini, A., Farkas, D., Gomez-Arroyo, J., Kraskauskas, D., Nicolls, M., Cool, C., Bogaard, H., Voelkel, N. Severe Pulmonary Arterial Hypertension Induced by SU5416 and Ovalbumin Immunization. (2012) *Am J Respir Cell Mol Biol* 47(5):679-87. Pubmed PMID:22842496.
20. **Farkas, L.**, Farkas, D., Gauldie, J., Warburton, D., Shi, W., Kolb, M. Transient overexpression of Gremlin results in epithelial activation and reversible fibrosis in rat lungs. (2011) *Am J Respir Cell Mol Biol*, 44: 870-878. Pubmed PMID: 20705941; Pubmed Central PMCID:PMC3135847.
21. Cina, D.P., Xu, H., Liu, L., **Farkas, L.**, Farkas, D., Kolb, M.R.J., Margetts, P. Renal tubular angiogenic dysregulation in anti-Thy1.1 glomerulonephritis. (2011) *Am J Physiol Ren Phys*, 300: F488-98. Pubmed PMID: 21048020.
22. Cui, Y., Robertson, J., Maharaj, S., Waldhauser, L., Niu, J., Wang, J., **Farkas, L.**, Kolb, M., Gauldie, J. Oxidative stress contributes to the induction and persistence of TGF- β 1 induced pulmonary fibrosis. (2011) *Int J Biochem Cell Biol* 43: 1122-33. Pubmed PMID: 21514399.
23. Hirota J.A., Ask, K., **Farkas, L.**, Smith, J.A., Ellis, R., Rodriguez-Lecompte, J.C., Kolb, M., Inman, M.D. In Vivo Role of Platelet Derived Growth Factor-BB in Airway Smooth Muscle Proliferation in Mouse Lung. (2011) *Am J Respir Cell Mol Biol* 45: 566-72. Pubmed PMID: 21216974.
24. **Farkas, L.**, Farkas, D., Warburton, D., Gauldie, J., Shi, W., Stampfli, M.R., Voelkel, N.F., Kolb, M. Cigarette smoke exposure accelerates airspace enlargement and alveolar cell apoptosis in Smad3 knockout mice. (2011) *Am J Physiol Lung Cell Mol Physiol* 301: L391-L401. Pubmed PMID:21743024.
25. Moeller, A., Gilpin, S.E., Ask, K., Cox, G., Cook, D.J., Gauldie, J., Margetts, P.J., **Farkas, L.**, Dobranowski, J., Boylan, C., O'Byrne, P.M., Strieter, R.M., Kolb, M.R.J. Circulating Fibrocytes Are an Indicator for Poor Prognosis in Idiopathic Pulmonary Fibrosis. (2009) *Am J Respir Crit Care Med*, 179(7): 588-594. Pubmed PMID: 19151190.
26. **Farkas, L.**, Farkas, D., Ask, K., Möller, A., Gauldie, J., Margetts, P., Inman, M., Kolb, M.. VEGF ameliorates pulmonary hypertension through inhibition of endothelial apoptosis in experimental lung fibrosis in rats. (2009) *J Clin Invest*, 119(5): 1298- 1311. Pubmed PMID: 19381013; Pubmed Central PMCID:PMC2673845.
27. Janssen, L.J., **Farkas, L.**, Rahman, T., Kolb, M.R.J.. ATP stimulates Ca²⁺- Waves and Gene Expression in cultured human pulmonary Fibroblasts. (2009) *Int J Biochem Cell Biol*, 41(12): 2477-2484. Pubmed PMID:19666134.
28. Ask, K., Labiris, R.N., **Farkas, L.**, Moeller, A., Froese, A.R., Farnecombe, T., McClelland, G., Inman, M.D., Gauldie, J. and Kolb, M.. Comparison between conventional and clinical assessment of experimental lung fibrosis. (2008) *J Transl Med*, 6:16. Pubmed PMID: 18402687; Pubmed Central PMCID:PMC2365932.
29. **Farkas, L.**, Stoelcker, B., Jentsch, N., Heitzer, S, Pfeifer, M, Schulz, C.. Muramyl dipeptide modulates CXCL-8 release of BEAS-2B cells via NOD2. (2008) *Scand J Immunol*, 68:315-322. Pubmed PMID:18647246.
30. **Farkas, L.**, Hahn, M.C., Schmoczer, M., Jentsch, N., Krätzel, K., Pfeifer, M., Schulz, C. Expression of chemokine receptors CXCR1 and CXCR2 in human bronchial epithelial cells. (2005) *Chest*, 128:3724-3734. Pubmed PMID: 16304340.
31. Schulz, C., **Farkas, L.**, Wolf, K., Krätzel, K., Eissner, G., Pfeifer, M. Differences in LPS-Induced Activation of Bronchial Epithelial Cells (BEAS-2B) and Type II-Like Pneumocytes (A-549). (2002) *Scand J Immunol*, 56:294-302. Pubmed PMID: 12193231.

1. **Farkas, L**, Goncharova, EA. Circling In on Pulmonary Arterial Hypertension: Is It Time to Consider Circular RNA circ_0016070 as a Biomarker and Target for Therapy? (2022) J Am Heart Assoc. 11:e026798.
2. Goncharova EA, **Farkas L**. Stem Cell-Derived Nanovesicles for the Treatment of Pulmonary Hypertension: Are We There Yet? (2022) Am J Respir Cell Mol Biol. Jul;67(1):3-5. PubMed PMID: 35522729. PMCID: PMC9273228
3. Hudson, J., **Farkas, L**. Epigenetic Regulation of Endothelial Dysfunction and Inflammation in Pulmonary Arterial Hypertension. (2021) Int J Mol Sci 22(22); 12098. PMID: 34829978. PMCID: PMC8617605
4. **Farkas L**. The Endothelium Is in Shock and IFN- α /STAT1 Signaling Is to Blame. (2021) Am J Respir Cell Mol Biol. 65(2):128-9. PubMed PMID: 33844939.
5. Bhagwani, A.R., Thompson, A.A.R., **Farkas, L**. When Innate Immunity meets Angiogenesis – the Role of Toll-like Receptors in Endothelial Cells and Pulmonary Hypertension. (2020) Front Med in press
6. Turton, H.A., Thompson, A.A.R., **Farkas, L**. RNA signaling in Pulmonary Arterial Hypertension – A Double-Stranded Sword. (2020) Int J Mol Sci. 21(9):E3124. PMID: 32354189
7. Heise, R.L., **Farkas, L**. A Cation Channel Protects the Stretched Lung. (2020) Am J Respir Cell Mol Biol. 62(2):128-129. PMID: 31469582
8. Grinnan, D., **Farkas, L**. A novel peptide for immunomodulation in pulmonary arterial hypertension. (2019) Am J Respir Crit Care Med 2019; doi: 10.1164/rccm.201902-0388ED. [Epub ahead of print]. PMID: 30973752
9. **Farkas, L**. Kolb MRJ. A switch in TGF- β signaling explains contradictory findings in Pulmonary Arterial Hypertension. (2018) Am J Respir Crit Care Med 2018;197(2):157-159. PMID: 29096067
10. Heise, R.L., Link, P.A., **Farkas, L**. From here to there, progenitor cells and stem cells are everywhere in lung vascular remodeling. (2016) Front Pediatr 4:80. Pubmed PMID: 27583245.
11. **Farkas, L**, Kolb, M. Vascular repair and regeneration as a therapeutic target for pulmonary arterial hypertension. (2013) Respiration 85(5): 355-364. Pubmed PMID: 23594605. Pubmed Central PMCID:PMC3688480.
12. Nicolls, M.R., Mizuno, S., Taraseviciene-Stewart, L., **Farkas, L**, Drake, J.I., Al Hussein, A., Gomez-Arroyo, J.G., Voelkel, N.F., Bogaard, H.J. New models of pulmonary hypertension based on VEGF receptor blockade-induced endothelial cell apoptosis. (2012) Pulm Circ 2(4): 434-442. Pubmed PMID:23372927.
13. Voelkel, N.F., Bogaard, H.J., Al Hussein, A.A., **Farkas, L**, Gomez-Arroyo, J., Natarajan, R. Antioxidants for the treatment of patients with severe angioproliferative pulmonary hypertension? (2012) Antioxid Redox Signal 18(14):1810-7. Pubmed PMID: 22870869.
14. Gomez-Arroyo, J., Bogaard, H.J., **Farkas, L**, Abbate, A., Voelkel, N.F. Pulmonary Hypertension and Right Ventricular Dysfunction in Chronic Lung Diseases: New Pathobiologic Concepts. (2012) Current Respiratory Medicine Reviews 8(2):116-22.
15. Hanumegowda, C., **Farkas, L**, Kolb, M. Angiogenesis in pulmonary fibrosis - too much or not enough? (2012) Chest 142(1): 200-7. Pubmed PMID: 22796840.
16. Bogaard, H.J., Al Hussein, A., **Farkas, L**, Farkas, D., Gomez-Arroyo, J., Abbate, A., Voelkel, N.F. Severe pulmonary hypertension: The role of metabolic and endocrine disorders. (2012) Pulm Circ 2(2): 148-54. Pubmed PMID: 22837855
17. Gomez-Arroyo, J., **Farkas, L**, Alhussaini, A.A., Farkas, D., Kraskauskas, D., Voelkel, N.F., Bogaard, H.J. The Monocrotaline Model of Pulmonary Hypertension in Perspective. (2012) Am J Physiol Lung Cell Mol Physiol 302: L363-9. Pubmed PMID: 21964406
18. **Farkas, L**, Kolb, M. Pulmonary microcirculation in interstitial lung disease. (2011) Proc Am Thorac

Soc 8: 516-521. Pubmed PMID:22052930.

19. **Farkas, L.**, Gaudie, J., Voelkel, N.F., Kolb, M. Pulmonary Hypertension in Idiopathic Pulmonary Fibrosis: A tale of angiogenesis, endothelial apoptosis and growth factors. (2011) *Am J Respir Cell Mol Biol* 45: 1-15. Pubmed PMID: 21057104.
20. **Farkas, L.**, Kolb, M.R.. Endothelial Progenitor Cells as a Target for Therapy of Pulmonary Hypertension. (2010) *CML - Pulmonary Hypertension*, 1(3): 61-68

Book chapters

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88. **Farkas, L.**, Stoelcker, B., Jentsch, N., Pfeifer, M., Schulz, C. (2005) Expression of NOD2/CARD15 and RIP2/RICK in human bronchial epithelial cells (BEAS-2B). *Proc Am Thor Soc* 2: A223

89. **Farkas, L.**, Stoelcker, B., Jentsch, N., Pfeifer, M., Schulz, C. (2005) [Expression of NOD2/CARD15 and RIP2/RICK in bronchial epithelial cells (BEAS-2B)] [german] *Pneumologie* 59(S1):S73
90. **Farkas, L.**, Krätzel, K., Jentsch, N., Pfeifer, M., Schulz, C. (2005) [Expression of CXCR1 and CXCR2 on human bronchial epithelial cells] [german] *Pneumologie* 59(S1):S18
91. Schulz, C., Schmoczer, M., Kraetzel, K., **Farkas, L.**, Jentsch, N., Wolf, K., Pfeifer, M. (2004) Expression of the chemokine receptors CXCR1 and CXCR2 on bronchial epithelial cells. *Eur Respir J* 24(S48):551S
92. **Farkas, L.**, Schulz, C., Wolf, K., Pfeifer, M. (2002) [Differing sCD14-dependency of LPS-induced cytokine release from bronchial and alveolar epithelial cells] [german] *Pneumologie* 56(S1):S91
93. Schulz, C., **Farkas, L.**, Harth, M., Riegger, G.A.J., Eissner, G., Pfeifer, M. (2001) LPS induced cytokine release in bronchial epithelial cells. *Am J Respir Crit Care Med* 163:162A
94. Schulz, C., **Farkas, L.**, Riegger, G., Eissner, G., Pfeifer, M. (2001) [Investigations of LPS induced cytokine release from bronchial epithelial cells] [german] *Pneumologie* 55(S1):S43

Oral Presentations

Webinar organization and presentation January 29, 2014 for the ATS Stem Cell Working Group: "Introduction to Mesenchymal Stem Cells - Characterization, Isolation, Culture and Applications"

National oral Presentations

1. Symposium chair and panelist for the Scientific Symposium "D08. SICK BY ASSOCIATION: THE PULMONARY VASCULATURE IN CHRONIC LUNG DISEASES" 5/18/2022 at the ATS 2022 conference.
2. "Endothelial Function in the Pulmonary Vasculature – At the Crossroads Between Innate Immunity, Endosomes and Progenitor Cell Biology". Invited presentation for the Carroll Cross Distinguished Professorship Series, UC Davis Health Lung Center, 11/12/2021
3. "How the Pieces of the Lung Vascular Orchestra Play Together". Invited presentation at the Scientific Symposium "C007 BEYOND VASCULAR RESIDENT CELLS: ONE NEEDS MANY PIECES TO PLAY AN ORCHESTRA" at the ATS 2021 conference.
4. Symposium chair for the Scientific Symposium "C007 BEYOND VASCULAR RESIDENT CELLS: ONE NEEDS MANY PIECES TO PLAY AN ORCHESTRA" at the ATS 2021 conference.
5. "Endothelial cells in Pulmonary Hypertension – at the crossroad between innate immunity and progenitor cell biology". Invited presentation at the Ohio State University, Pulmonary Division. 1/2019.
6. "Endothelial cells in Pulmonary Hypertension – at the crossroad between innate immunity and progenitor cell biology". Invited presentation at the Pittsburgh Heart, Lung and Blood Vascular Medicine Institute, University of Pittsburgh, 11/2018
7. "Vascular progenitors- applications and directions." Invited Presentation during session MP612- The Stem Cell Niche: Applications in Pulmonary Diseases (Meet the Professor Seminar), ATS 2018 conference, 5/2018.

8. "Contrasting effects of CD117+ endothelial cell injection in chronic hypoxic- and lung fibrosis-associated Pulmonary Hypertension." Poster presentation at the ATS 2018 San Diego, CA.
9. "Role of CXCR3 in the Apoptosis-Resistance of Endothelial Progenitor Cells in HIV-Induced Pulmonary Hypertension." Poster presentation at the ATS 2017 International Conference in Washington, DC.
10. "Role of integrin $\beta 5$ for the Phenotype of Human Pulmonary Microvascular Endothelial Cells: Implications for Endothelial-to-Mesenchymal Transition and Pulmonary Hypertension." Poster presentation at the ATS 2017 International Conference in Washington, DC.
11. "Contribution of Reduced Toll-like Receptor 3 Expression to Endothelial Dysfunction in Pulmonary Hypertension." Poster presentation at the ATS 2017 International Conference in Washington, DC.
12. "Endothelial stem cells in the lung- biology and potential roles in disease pathogenesis and therapy." Invited presentation, Pulmonary Seminar at the University of Minnesota 9/2016
13. May 2016. "Immunomodulatory therapy with synthetic double stranded RNA prevents Pulmonary Hypertension". Poster presentation at the ATS 2016 International Conference in San Francisco, CA.
14. May 2016. "The NF- κ B pathway is important for phenotype and proliferation of pulmonary microvascular endothelial cells and lung endothelial progenitor cells." Poster presentation at the ATS 2016 International Conference in San Francisco, CA.
15. "Endothelial Stem Cells and Lung Vascular Remodeling" Invited Lecture ICVBM/Physiology Seminar Indiana University, Indianapolis, IN. 5/2016
16. July 2015. "Putative role of altered TGF- β signaling in lung vascular and alveolar remodeling promoted by transplantation of lung progenitor cells". Poster presentation at the 2015 Vermont Stem Cell conference in Burlington, VT.
17. May 2015. "Increased Expression of the Axonal Guidance Molecule Netrin-1 in Pulmonary Vascular Lesions in Human and Experimental Severe Pulmonary Hypertension". Poster presentation at the ATS 2015 International conference in Denver, CO.
18. May 2015 "Transplantation of CD117+ Cells Derived from the Lungs of Rats with Severe Pulmonary Hypertension Induce Pulmonary Vascular and Alveolar Remodeling." Poster presentation at the ATS 2015 International conference in Denver, CO.
19. May 2014. "Transplantation of bone marrow-derived mesenchymal stem cells improves immune regulation and ameliorates vascular obliteration in the SU5416 and chronic hypoxia model." Poster discussion at the ATS 2014 international conference in San Diego, CA.
20. May 2014. "Lung tissue homogenate of patients with severe pulmonary hypertension promotes angiogenesis and cellular senescence in human pulmonary microvascular endothelial cells." Poster presentation at the ATS 2014 international conference in San Diego, CA.
21. May 2014. "Inhibition of NF- κ B improves immune regulation in the SU5416 and chronic hypoxia model of severe obliterative PAH." Poster presentation at the ATS

- 2014 international conference in San Diego, CA.
22. November, 2013. "Increased expression of the neuronal/mesenchymal stem cell marker Nestin in plexiform lesions of patients with severe PAH." Oral Presentation at the AHA Scientific Sessions 2013 in Dallas, TX.
 23. November, 2013. "Nf- κ B Inhibition Prevents Vascular Obliteration And Improves Immune Regulation In Severe Pulmonary Arterial Hypertension." Oral Presentation at the AHA Scientific Sessions 2013 in Dallas, TX.
 24. "Inflammation and Progenitor Cells in lung vascular remodeling." Invited Lecture, Pulmonary Research Conference, Indiana University, Indianapolis, IN. 11/2013
 25. "Inflammation and Progenitor Cells in lung vascular remodeling." Invited Presentation in the Vascular Medicine Research Conference, University of Pittsburgh, PA. 10/2013
 26. July, 2013. "Reduced proliferative and angiogenic capacity of lung c-kit+ cells isolated from animals with severe pulmonary hypertension." Poster presentation at the 2013 "Stem Cells and Cellular Therapies in Lung Biology and Lung Diseases" workshop in Burlington, VT.
 27. May, 2013. "C-kit+ cells isolated from the lungs of animals with severe PAH contain multipotent stem cells with impaired proliferative and angiogenic capacity." Poster discussion at the annual conference of the American Thoracic Society in Philadelphia, PA.
 28. May, 2013. "NF- κ B inhibition differentially alters the accumulation of progenitor and stem-like cell populations and prevents angioobliteration and severe PAH in the SU5416/chronic hypoxia model." Poster presentation at the annual conference of the American Thoracic Society in Philadelphia, PA.
 29. June, 2012. "Stem cell-like cells in angioproliferative lesions in the SU5416/chronic hypoxia model of angioproliferative PAH." Poster presentation at the 55th Annual Thomas L. Petty Aspen Lung conference
 30. May, 2012. "Evidence For The Presence Of Mesenchymal Stem Cell-Like Cells In Angioproliferative Lesions In The SU5416/Chronic Hypoxia Model Of Angioproliferative PAH." Oral presentation at the annual conference of the American Thoracic Society in San Francisco, CA.
 31. May, 2012. "Anti-Proliferative Treatment With Tetrahydromolybdate (TTM) In The SU5416/Chronic Hypoxia Model Restores The Endothelial Monolayer." Oral presentation at the annual conference of the American Thoracic Society in San Francisco, CA.
 32. May, 2012. "Inflammation is Required for the Initiation of Angioproliferative PAH." Poster discussion at the annual conference of the American Thoracic Society in San Francisco, CA.
 33. October, 2011. "Experimental lung fibrosis and pulmonary hypertension induces cardiomyocyte apoptosis and right heart failure." Poster presentation at the American Heart Scientific Session 2011 in Orlando, FL.
 34. May, 2011. "Inhibition of VEGFR-2 induces apoptosis and VEGF protein expression in human pulmonary microvascular endothelial cells." Poster presentation at the Annual conference of the American Thoracic Society in Denver, CO.
 35. May, 2011. "Potential contribution of precursor cells to angioproliferation in the

- SU5416/chronic hypoxia model of severe PAH." Poster presentation at the Annual conference of the American Thoracic Society in Denver, CO.
36. "Beneficial effects of VEGF in experimental PAH?" Invited Oral presentation (William Harvey Research Institute). Sixth John Vane Memorial Symposium, London, UK. 3/2011
 37. "Endothelial apoptosis, vascular remodeling and pulmonary hypertension in experimental lung fibrosis." Invited Lecture, Research seminar, Virginia Commonwealth University Medical Center (Richmond, VA, USA). 11/2009
 38. May, 2006. "The NOD2-ligand Muramyl dipeptide (MDP) increases the interleukin-8 secretion from bronchial epithelial cells under inflammatory conditions." Poster presentation at the annual conference of the American Thoracic Society in San Diego, CA.

International oral Presentations

1. October, 2013. "Lung progenitor cells from animals with severe pulmonary hypertension with altered function promote pulmonary vascular remodeling." Poster presentation at the Munich Lung Conference, Munich, Germany.
2. September, 2011. "Caspase inhibition reduces severe pulmonary hypertension in the AdTGF- β 1 model of angioproliferative pulmonary hypertension and lung fibrosis." Poster discussion at the Annual conference of the European Respiratory Society in Amsterdam, the Netherlands.
3. September, 2011. "Potential contribution of precursor cells to vascular remodeling in the AdTGF- β 1 model of lung fibrosis and pulmonary hypertension." Poster discussion at the Annual conference of the European Respiratory Society in Amsterdam, the Netherlands.
4. March, 2011. "Beneficial effects of VEGF in experimental PAH?" Invited oral presentation (William Harvey Research Institute). Sixth John Vane Memorial Symposium, London, UK.
5. September, 2010. "Cigarette smoke results in accelerated airspace enlargement in Smad3 KO mice through increased alveolar cell apoptosis." Poster presentation at the Annual conference of the European Respiratory Society in Barcelona, Spain.
6. November, 2009. "Endothelial apoptosis, vascular remodeling and pulmonary hypertension in experimental lung fibrosis." Invited oral presentation, Research seminar, Virginia Commonwealth University Medical Center (Richmond, VA, USA)
7. May, 2009. "BMP-antagonist Gremlin induces fibroblastic foci through EMT in the rodent lung." Oral presentation at the Annual conference of the American Thoracic Society in San Diego, CA.
8. May, 2009. "VEGF overexpression during fibrogenesis reduces endothelial cell apoptosis and improves pulmonary hypertension." Poster discussion at the Annual conference of the American Thoracic Society in San Diego, CA.
9. "VEGF overexpression during fibrogenesis ameliorates the development of pulmonary hypertension." Invited Lecture, Research Seminar, Research Center Borstel, Borstel, Germany. 10/2008
10. "The interaction between the fibrotic process and the pulmonary vasculature. Role of

- endothelial injury.” Invited oral presentation. Conference “Cellular Basis of Fibrosis and its Contribution to Human Disease”, Oakville, ON, Canada. 10/2008
11. October, 2008. “Gene transfer of the BMP antagonist gremlin induces fibroblastic foci and pulmonary fibrosis in rats.” Oral presentation at the Annual conference of the European Respiratory Society in Berlin, Germany. Awarded with the “Young Scientist Cell and Molecular Biology Travel Award”.
 12. October, 2008. “VEGF gene transfer enhances fibrosis but improves pulmonary hemodynamics in experimental pulmonary fibrosis.” Poster presentation at the Annual conference of the European Respiratory Society in Berlin, Germany.
 13. May, 2008. “Pulmonary hypertension is associated with PEDF-mediated inhibition of angiogenesis in the AdTGF- β 1 pulmonary fibrosis model.” Poster discussion at the Annual conference of the American Thoracic Society in Toronto, Canada.
 14. April, 2008. “[Pulmonary Hypertension in the AdTGF- β 1 lung fibrosis model is associated with loss of vascular density and PEDF-mediated inhibition of angiogenesis]” [german] Oral presentation at the annual conference of the German Society for Respiriology, Lubeck, Germany.
 15. April, 2008. “[Compartment-specific expression of TGF-beta dependent genes in an animal model of emphysema]” [german] Poster presentation at the annual conference of the German Society for Respiriology, Lubeck, Germany
 16. May, 2007. “Transient adenovirus-mediated gene transfer of TGF- β 1 induces pulmonary vascular remodelling.” Poster presentation at the Annual conference of the American Thoracic Society in San Francisco, CA.
 17. March, 2007. “[Transient adenovirus-mediated gene transfer of TGF- β 1 induces pulmonary vascular remodeling]” [german]. Oral presentation at the annual conference of the German Society for Respiriology, Mannheim, Germany.
 18. March, 2005. “[Expression of CXCR1 and CXCR2 on human bronchial epithelial cells]” [german]. Poster discussion presentation at the annual conference of the German Society for Respiriology, Berlin, Germany
 19. March, 2005. “[Expression of NOD2/CARD15 and RIP2/RICK in bronchial epithelial cells (BEAS-2B)]” [german]. Poster discussion presentation at the annual conference of the German Society for Respiriology, Berlin, Germany
 20. September, 2005. “Expression of CXCR1 and CXCR2 in primary bronchial epithelial cells from COPD patients and control subjects.” Poster discussion at the annual conference of the European Respiratory Society in Copenhagen, Denmark

Other Scholarly Products

Chair, Scientific Symposium, D8. SICK BY ASSOCIATION: THE PULMONARY VASCULATURE IN CHRONIC LUNG DISEASES, May 18, 2022, Annual Conference of the American Thoracic Society 2022

Chair, Scientific Symposium C007 BEYOND VASCULAR RESIDENT CELLS: ONE NEEDS MANY PIECES TO PLAY AN ORCHESTRA, May 18, 2021, Annual conference of the American Thoracic Society 2021

Invited Presenter, How the Pieces of the Lung Vascular Orchestra Play Together - Scientific Symposium C007 BEYOND VASCULAR RESIDENT CELLS: ONE NEEDS MANY PIECES TO PLAY AN ORCHESTRA, May 18, 2021, Annual conference of the American Thoracic Society 2021

Invited as Moderator for Poster discussion session PC-PD6 "With all my heart: Sex, estrogen, and right ventricle in pulmonary vascular disease and beyond" – could not attend because American Thoracic Society conference for 2020 has been canceled due to COVID-19 pandemic

Invited as judge for "Students Presenting at ATS (SPATS)" session on 5/18/2020 – could not attend because American Thoracic Society conference for 2020 has been canceled due to COVID-19 pandemic

Facilitator, Thematic poster session D54 - TO LIVE AND LET DIE: THE ENDOTHELIUM IN PAH, May 22, 19 Annual conference of the American Thoracic Society 2019 in Dallas, TX.

Panelist, Panel Discussion "EPCs, MSCs, and Cell Therapy Approaches For Lung Diseases", 2015 Vermont Stem Cell conference.

Lead Facilitator, Thematic Poster Session B68 - Experimental Models of Pulmonary Hypertension II, May 19, 2014, Annual conference of the American Thoracic Society 2014 in San Diego, CA.

Facilitator, Thematic poster session A52 - Mechanisms of Pulmonary Vascular Disease, May 19, 2013, Annual conference of the American Thoracic Society 2013 in Philadelphia.

Facilitator, Thematic poster session C62 - Case Reports: Pulmonary Circulation. May 21, 2013, Annual conference of the American Thoracic Society 2013 in Philadelphia. 05/2013 – 2013

Facilitator, Thematic poster session D41 - The Bleomycin model of lung fibrosis and beyond. May 22, 2013. Annual conference of the American Thoracic Society 2013 in Philadelphia.