

Rezvani, Milad, MD (A03)

Personal Data

Title	Dr. med.
First name	Milad
Name	Rezvani
Current position	Emmy Noether Program group leader & member of the Excellence Track in the Clinician Scientist Program, Berlin Institute of Health (BIH) at Charité; Campus Virchow Klinikum; Department of Pediatrics, Division of Gastroenterology, Nephrology and Metabolic Medicine
Current institution(s)/site(s), country	Charité – Universitätsmedizin Berlin, Campus Virchow Klinikum (CVK), Department of Pediatrics, Division of Gastroenterology, Nephrology and Metabolic Medicine, Augustenburger Platz 1, 13353 Berlin, Germany Berlin Institute of Health (BIH) Center for Regenerative Therapies (affiliate), Augustenburger Platz 1, 13353 Berlin, Germany
Identifiers/ORCID	ORCID-ID: 0000-0002-9550-8725

Qualifications and Career

Stages	Periods and Details
Degree programme: Medicine	2004 – 2008, Medizinische Hochschule Hannover (MHH), Germany 2008 – 2011, University of Freiburg, Germany
Doctorate: MD thesis	13.07.2013: Supervisor: Andrea Heinzmann: " <i>Role of Matrix Metalloproteinases in the Genetics of Bronchopulmonary Dysplasia</i> ", University of Freiburg, Germany
Stages of academic/professional career	
Since 2022	Excellence Track, Clinician Scientist Program, Berlin Institute of Health, Berlin, Germany
Since 2021	DFG Emmy Noether Program group leader
2020 – 2021	Fellowship in Pediatric Gastroenterology, Hepatology and Nutrition, Cincinnati Children's Hospital Medical Center, USA
2017 – 2020	Residency in Pediatrics, Boston Combined Residency Program, Boston Children's Hospital, Harvard Medical School, USA
2019 – 2020	Research fellow, Massachusetts General Hospital, Harvard Medical School, USA (part-time)
2017 – 2020	Fellow of the American Academy of Pediatrics (2020), Board certification as <i>Pediatrician</i> of the American Board of Pediatrics (2020), US Federal Medical License (Educational Commission for Foreign Medical Graduates, 2017),

	Massachusetts Medical License (2017), Ohio Medical License (2020)
2012 – 2017	Exchange student (DAAD award) and research fellow (DFG research fellowship), Institute of Regenerative Medicine & Department of Surgery, University of California, San Francisco, USA

Activities in the Research System

- Lead PI of “4D-LiverImmunoCept[®]”-consortia (funded by *Alliance4Rare* by the Horst und Eva Luise Kühler Stiftung, since 2023), international consortia for the spatiotemporal immune phenotyping in Biliary Atresia and preclinical evaluation of therapeutic targets
- Peer reviewing activities (selected): *Stem Cell Rep*, *Front Immunol*, *Sci Rep*
- Founder and PI of a multi-institutional research project on crowdsourced research education on COVID-19 for medical and pediatric trainees in the US (2020)
- Resident lead, Basic Science Academy at Boston Children’s Hospital (06/2018 – 06/2020)
- Member of American Association for the Study of Liver Diseases (AASLD, 09/2016 – present), American Association of Pediatrics (AAP, 07/2017 – present), North American Society for Pediatric Gastroenterology, Hepatology and Nutrition (NASPHGAN, 07/2020 – present), Gesellschaft für Pädiatrische Gastroenterologie und Ernährung (GPGE, 02/2020 – present), European Association for the Study of Liver Diseases (EASL, 02/2020 – present), German Stem Cell Network (GSCN, 08/2020 present)
- San Francisco Representative of the *German Scholars Organization* and Organizer of Transatlantic Research Symposium at the German Consulate General, San Francisco (2015 – 2017)

Scientific Results

Category A, * contributed equally, # open access

1. **Rezvani M**, Vallier L, Guillot A. Modeling Nonalcoholic Fatty Liver Disease in the Dish Using Human-Specific Platforms: Strategies and Limitations. **Cell Mol Gastroenterol Hepatol** 2023; 15:1135–1145. doi:10.1016/j.jcmgh.2023.01.014. #
2. **Rezvani M**, Campbell KM, Prada CE, Peters AL. Early allograft dysfunction in a pediatric liver allograft with an occult pathogenic mutation in the urea cycle. **Am J Transplant** 2023; S1600-6135(23)00312-X. doi:10.1016/j.ajt.2023.02.027.
3. **Rezvani M**. 50 Years Ago in TheJournal ofPediatrics: The Discovery of the Horizontal Transmission of Hepatitis B Virus in Children. **J Pediatr** 2021;:237:176. doi:10.1016/j.jpeds.2021.07.050.
4. **Rezvani M**. 50 Years Ago in TheJournal ofPediatrics: When “Chronic Active Hepatitis” Became Autoimmune Hepatitis. **J Pediatr** 2021; 234:204. doi:10.1016/j.jpeds.2021.03.061.
5. Schaub JR, Huppert KA, Kurial SNT, Hsu BY, Cast AE, Donnelly B, Karns RA, Chen F, **Rezvani M**, Luu HY, Mattis AN, Rougemont AL, Rosenthal P, Huppert SS, Willenbring H. De novo formation of the biliary system by TGFβ-mediated hepatocyte transdifferentiation. **Nature** 2018; 557:247–251. doi:10.1038/s41586-018-0075-5. #
6. **Rezvani M**, Español-Suñer R, Malato Y, Dumont L, Grimm AA, Kienle E, Bindman JG, Wiedtke E, Hsu BY, Naqvi SJ, Schwabe RF, Corvera CU, Grimm D, Willenbring H. In

- Vivo Hepatic Reprogramming of Myofibroblasts with AAV Vectors as a Therapeutic Strategy for Liver Fibrosis. **Cell Stem Cell** 2016; 18:809–816. doi:10.1016/j.stem.2016.05.005. #
7. **Rezvani M**, Grimm AA, Willenbring H. Assessing the therapeutic potential of lab-made hepatocytes. **Hepatology** 2016; 64:287–294. doi:10.1002/hep.28569. #
 8. Desai SS, Tung JC, Zhou VX, Grenert JP, Malato Y, **Rezvani M**, Español-Suñer R, Willenbring H, Weaver VM, Chang TT. Physiological ranges of matrix rigidity modulate primary mouse hepatocyte function in part through hepatocyte nuclear factor 4 alpha. **Hepatology** 2016; 64:261–275. doi:10.1002/hep.28450. #
 9. Zhu S*, **Rezvani M***, Harbell J, Mattis AN, Wolfe AR, Benet LZ, Willenbring H, Ding S. Mouse liver repopulation with hepatocytes generated from human fibroblasts. **Nature** 2014; 508:93–97. doi:10.1038/nature13020. #

Category B, # open access

1. **Rezvani M**, Smith GA, Majzoub JA, Durbin AD, Winn AS. A Resident-Led Virtual Journal Club to Educate Pediatric Residents About Coronavirus Disease 2019. **Acad Pediatr** 2021; 21:759–761. doi:10.1016/j.acap.2021.02.010. #
2. **Rezvani M**, Wilde J, Vitt P, Mailaparambil B, Grychtol R, Krueger M, Heinzmann A. (). Association of a FGFR-4 gene polymorphism with bronchopulmonary dysplasia and neonatal respiratory distress. **Dis Markers** 2013; 35:633–640. doi:10.1155/2013/932356. #
3. Gouse BM, Nieves-Archibald A, Trutzer I, **Rezvani M**, Srinath M, Chang A, Wilensky D, Duncan A. Pediatric Malignant Catatonia Associated With Vaporized Cannabis Use: A Case Series. **J Acad Consult Liaison Psychiatry** 2021; 62:445–448. doi: 10.1016/j.jaclp.2021.02.004

Other publications

1. **Rezvani M**, Español-Suñer R, Malato Y, Dumont L. Epigenetics Hitting Heart - On “Bmi1 Is a Key Epigenetic Barrier to Direct Cardiac Reprogramming”, First Author Journal Club: 2016 Selections. **Cell Stem Cell** 2016; 18(6):692-94
2. **Rezvani M**. Die Rolle der Matrixmetalloproteinasen in der Genetik des Neonatalen Atemnotsyndroms und der Bronchopulmonalen Dysplasie, Freiburg (Breisgau). 2013; **National Library of Germany**, catalogue number: 1037828887.

Patent

1. Zhu S, Ding S, Willenbring H, **Rezvani M**, Harbell J, *Generating Hepatocytes*, United States Patent Number 20150175962

Academic Distinctions

- 1st prize for oral presentation, Symposium of the NIH/NIDDK-Digestive Health Center (DHC) at Cincinnati Children’s Hospital Medical Center (02/2022)
- Berlin Institute of Health – Clinician-Scientist-Program, *Excellence Track* (01/2021)
- Foundation Award (for abstract) at *The Liver Meeting* (AASLD) (10/2020)
- Early Career Investigator Award in Basic Science (AASLD) (10/2020)

- Emmy Noether Programme - German Research Foundation (DFG) (08/2020)
- Fred Lovejoy Resident Research Award - Boston Children's Hospital, Harvard Medical School (04/2020)
- Emergent Liver Scholar (AASLD) (06/2019)
- Presidential Plenary Session Presentation – The Liver Meeting (AASLD) (11/2015)
- Research Scholarships - German Academic Exchange Service (DAAD) (10/2012)
- German Research Foundation (DFG) (12/2016)
- Heinrich-Kircher Stipend Award – Medical Faculty, University of Freiburg (01/2011)