

Subramanian, Pallavi, PhD (B08)

Personal Data

Title	Dr. rer. nat
First name	Pallavi
Name	Subramanian
Current position	Postdoctoral researcher
Current institution(s)/site(s), country	Institute for Clinical Chemistry and Laboratory Medicine, Technical University Dresden, Germany Department of Medicine I, Technical University Dresden, Germany
Identifiers/ORCID	ORCID-ID: 0000-0002-4508-0812

Qualifications and Career

Stages	Periods and Details
Degree programme: Biotechnology	2003 – 2008, BSc and MSc, Bharathiar University, Coimbatore, India
Doctorate: PhD thesis	12.06.2012: Supervisor: Prof. Andreas Schober, PhD thesis " <i>Lysophosphatidic acid: role in CXCL12-mediated vascular repair and atherogenic monocyte recruitment</i> ", University hospital RWTH Aachen, Institute for Molecular Cardiovascular Research (IMCAR), Aachen, Germany (magna cum laude)
Stages of academic/professional career	
Since 2014	Postdoctoral researcher, Institute for Clinical Chemistry and Laboratory Medicine, University Hospital Carl Gustav Carus, TU Dresden, Dresden, Germany
2012 – 2013	Postdoctoral researcher, Institut für Prophylaxe und Epidemiologie der Kreislaufkrankheiten (IPEK), Klinikum der Universität München (KUM) Ludwig-Maximilians-Universität (LMU) München, Munich, Germany

Scientific Results

Category A, * contributed equally, # open access

1. **Subramanian P***, Gargani S*, Palladini A, Chatzimike M, Grzybek M, Peitzsch M, Papanastasiou AD, Pyrina I, Ntafis V, Gercken B, Lesche M, Petzold A, Sinha A, Nati M, Thangapandi VR, Kourtzelis I, Andreadou M, Witt A, Dahl A, Burkhardt R, Haase R, Domingues AMJ, Henry I, Zamboni N, Mirtschink P, Chung KJ, Hampe J, Coskun Ü, Kontoyiannis DL, Chavakis T. The RNA binding protein human antigen R is a gatekeeper of liver homeostasis. **Hepatology** 2022; 75(4):881-897. doi: 10.1002/hep.32153. #
2. Thangapandi V R, Knittelfelder O, Brosch M, Patsenker E, Vvedenskaya O, Buch S, Hinz S, Hendricks A, Nati M, Herrmann A, Rekhade D R, Berg T, Matz-Soja M, Huse K, Klipp E, Pauling J, Wodke J, Ackerman J M, Bonin M V, Aigner E, Datz C, Schönfels W V, Nehring S, Zeissig S, Röcken C, Dahl A, Chavakis T, Stickel F, Shevchenko A,

- Schafmayer C, Hampe J*, **Subramanian P***. Loss of hepatic Mboat7 leads to liver fibrosis. **Gut** 2021; 70(5):940-950. doi: 10.1136/gutjnl-2020-320853. #
3. Kalafati L, Kourtzelis I, Schulte-Schrepping J, Li X, Hatzioannou A, Grinenko T, Hagag E, Sinha A, Has C, Dietz S, Miguel de Jesus Domingues A, Nati M, Sormendi S, Neuwirth A, Chatzigeorgiou A, Ziogas A, Lesche M, Dahl A, Henry I, **Subramanian P**, Wielockx B, Murray P, Mirtschink P, Chung K J, Schultze J, Netea M, Hajishengallis G, Verginis P, Mitroulis I, Chavakis T. Innate Immune Training of Granulopoiesis Promotes Anti-tumor Activity. **Cell** 2020; 183(3):771-785.e12. doi: 10.1016/j.cell.2020.09.058. #
 4. Karshovska E, Wei Y, **Subramanian P**, Mohibullah R, Geißler C, Baatsch I, Popal A, Corbalán Campos J, Exner N, Schober A. HIF-1 α (Hypoxia-Inducible Factor-1 α) Promotes Macrophage Necroptosis by Regulating miR-210 and miR-383. **Arterioscler Thromb Vasc Biol** 2020; 40(3):583-596. doi: 10.1161/ATVBAHA.119.313290. #
 5. **Subramanian P**, Prucnal M, Gercken B, Economopoulou M, Hajishengallis G, Chavakis T. Endothelial cell-specific overexpression of developmental endothelial locus-1 does not influence atherosclerosis development in ApoE $^{-/-}$ mice. **Thromb Haemost** 2017; 117(10):2003-2005. doi: 10.1160/TH17-03-0160. #
 6. Mitroulis I, Chen LS, Singh RP, Kourtzelis I, Economopoulou M, Kajikawa T, Troullinaki M, Ziogas A, Ruppova K, Hosur K, Maekawa T, Wang B, **Subramanian P**, Tonn T, Verginis P, von Bonin M, Wobus M, Bornhäuser M, Grinenko T, Di Scala M, Hidalgo A, Wielockx B, Hajishengallis G, Chavakis T. Secreted protein Del-1 regulates myelopoiesis in the hematopoietic stem cell niche. **J Clin Invest** 2017; 127(10):3624-3639. doi: 10.1172/JCI92571. #
 7. Zahedi F, Nazari-Jahantigh M, Zhou Z, **Subramanian P**, Wei Y, Grommes J, Offermanns S, Steffens S, Weber C, Schober A. Dicer generates a regulatory microRNA network in smooth muscle cells that limits neointima formation during vascular repair. **Cell Mol Life Sci** 2017; 74(2):359-372. doi: 10.1007/s00018-016-2349-0.
 8. Akhtar S, Hartmann P, Karshovska E, Rinderknecht FA, **Subramanian P**, Gremse F, Grommes J, Jacobs M, Kiessling F, Weber C, Steffens S, Schober A. Endothelial Hypoxia-Inducible Factor-1 α Promotes Atherosclerosis and Monocyte Recruitment by Upregulating MicroRNA-19a. **Hypertension** 2015; 66(6):1220-6. doi: 10.1161/HYPERTENSIONAHA.115.05886.
 9. Zhou Z*, **Subramanian P***, Sevilimis G, Globke B, Soehnlein O, Karshovska E, Megens R, Heyll K, Chun J, Saulnier-Blache JS, Reinholz M, van Zandvoort M, Weber C, Schober A. Lipoprotein-derived lysophosphatidic acid promotes atherosclerosis by releasing CXCL1 from the endothelium. **Cell Metab** 2011; 13(5):592-600. doi: 10.1016/j.cmet.2011.02.016. #
 10. **Subramanian P***, Karshovska E*, Reinhard P, Megens RT, Zhou Z, Akhtar S, Schumann U, Li X, van Zandvoort M, Ludin C, Weber C, Schober A. Lysophosphatidic acid receptors LPA1 and LPA3 promote CXCL12-mediated smooth muscle progenitor cell recruitment in neointima formation. **Circ Res** 2010; 107(1):96-105. doi: 10.1161/CIRCRESAHA.109.212647.

Academic Distinctions

- MeDDrive Grant, Medical Faculty, TU Dresden (2018) (21,550 €)
- MeDDriveStart Grant, Medical Faculty, TU Dresden (2015 – 2016) (30,000 €)
- Else Kröner Fresenius Stiftung (2014 – 2018) (303,900 €)
- Qualified in a global competition among scientists worldwide to participate in the 61st Lindau Nobel Laureate Meeting dedicated to Physiology/Medicine, Lindau, Germany. (2011)