

Engelmann, Cornelius, Priv.-Doz., MD, PhD (A02, Z03)

Personal Data

Title	Priv.-Doz. Dr. med.
First name	Cornelius
Name	Engelmann
Current position	Research Group Leader, Medical Consultant; permanent position
Current institution(s)/site(s), country	Department of Hepatology and Gastroenterology Charité – Universitätsmedizin Berlin, Campus Charité Mitte (CCM) and Campus Virchow-Klinikum (CVK), Augustenburger Platz 1, 13353 Berlin, Germany
Identifiers/ORCID	ORCID-ID: 0000-0003-2237-0881

Qualifications and Career

Stages	Periods and Details
Degree programme: Medicine	2000 – 2006, University Leipzig, Germany (clinical electives: Kantonspital Liestal, Switzerland; Royal Hallamshire Hospital Sheffield, UK)
Doctorate: MD thesis	22.03.2011: Supervisor: Henrik Rüffert, “ <i>Propofol versus flunitrazepam for inducing and maintaining sleep in postoperative ICU patients</i> ”, Anaesthesia and Intensive Care, University Hospital Leipzig, Leipzig, Germany
Doctorate: PhD thesis	28.03.2022: Supervisor: Rajiv Jalan, “ <i>Synergisms of stem cell mobilization and toll-like receptor 4 inhibition to treat the acute-on-chronic liver failure</i> ”, Institute for Liver and Digestive Health, University College London, UK
Stages of academic/professional career	
2022	Habilitation, Charité – Universitätsmedizin Berlin, Germany
Since 2020	Research Group Leader, Consultant, Department of Hepatology and Gastroenterology, Charité – Universitätsmedizin Berlin, Berlin, Germany
2017 – 2020	Senior Research Fellow, Institute for Liver and Digestive Health, University College London, UK
2017	Senior Clinical Fellow, Royal Free Hospital, London, UK
2011 – 2016	Internal Medicine Residency, Section Hepatology, University Hospital Leipzig, Leipzig, Germany
2012	Board certification <i>Internal Medicine</i>
2007 – 2011	Internal Medicine Residency, Park-Hospital Leipzig and Heart Centre Leipzig, Leipzig, Germany

Activities in the Research System

- Principal investigator of the EU funded (Horizon 2020) A-TANGO project (since 2021)
- Guideline Group Leader “Liver Transplantation” (DGVS) (since 2015)
- Editorial board *Frontiers in Medicine*, *Frontiers in Microbiology*

- Teaching coordinator (“Lehrbeauftragter”) of the Department of Hepatology and Gastroenterology, Charité – Universitätsmedizin Berlin

Scientific Results

Category A, * contributed equally, # open access

1. **Engelmann C**, Habtesion A, Hassan M, Kerbert AJ, Hammerich L, Novelli S, Fidaleo M, Philips A, Davies N, Ferreira-Gonzalez S, Forbes SJ, Berg T, Andreola F, Jalan R. Combination of G-CSF and a TLR4 inhibitor reduce inflammation and promote regeneration in a mouse model of ACLF. **J Hepatol** 2022; 77(5):1325-1338. doi: 10.1016/j.jhep.2022.07.006. #
2. Kondo T*, Macdonal S*, **Engelmann C***, Habtesion A, Macnaughtan J, Mehta G, Mookerjee RP, Davies N, Pavesi M, Moreau R, Angeli P, Arroyo V, Andreola F, Jalan R. The role of RIPK1 mediated cell death in acute-on-chronic liver failure. **Cell Death Dis** 2021; 13(1):5. doi: 10.1038/s41419-021-04442-9. Erratum in: *Cell Death Dis* 2022; Apr 29;13(4):416. #
3. **Engelmann C**, Herber A, Franke A, Bruns T, Reuken P, Schiefke I, Zipprich A, Zeuzem S, Goeser T, Canbay A, Berg C, Trebicka J, Uschner FE, Chang J, Mueller T, Aehling N, Schmelzle M, Splith K, Lammert F, Lange CM, Sarrazin C, Trautwein C, Manns M, Häussinger D, Pfeiffenberger J, Galle PR, Schmedeknecht A, Berg T. Granulozyten stimulierender factor (G-CSF) to treat acute-on-chronic liver failure: A multicenter randomized trial (GRAFT study). **J Hepatol** 2021; 76(6):1346-1354. doi: 10.1016/j.jhep.2021.07.033. #
4. Juanola O, Hassan M, Kumar P, Yilmaz B, Keller I, Simillion C, **Engelmann C**, Tacke F, Dufour JF, De Gottardi A, Moghadamrad S. Intestinal microbiota drives cholestasis-undiced specific hepatic gene expression patterns. **Gut Microbes** 2021; 13(1):1-20. doi: 10.1080/19490976.2021.1911534. #
5. **Engelmann C**, Sheikh M, Sharma S, Kondo T, Loeffler-Wirth H, Zheng YB, Novelli S, Hall A, Kerbert AJC, Macnaughtan J, Mookerjee R, Habtesion A, Davies N, Ali T, Gupta S, Andreola F, Jalan R. Toll-like receptor 4 is a therapeutic target for prevention and treatment of liver failure. **J Hepatol** 2020; 73(1):102-112. doi: 10.1016/j.jhep.2020.01.011.
6. **Engelmann C**, Adebayo D, Oria M, De Chiara F, Novelli S, Habtesion A, Davies N, Andreola F, Jalan R. Recombinant Alkaline Phosphatase prevents acute-on-chronic liver failure. **Sci Rep** 2020;10(1):389. doi: 10.1038/s41598-019-57284-z. #
7. Krohn S, Zeller K, Böhm S, Chatzinotas A, Harms H, Hartmann J, Heidtmann A, Herber A, Kaiser T, Treuheit M, Hoffmeister A, Berg T, **Engelmann C**. Molecular quantification and differentiation of *Candida* species in biological specimens of patients with liver cirrhosis. **PLoS One** 2018; 13(6):e0197319. doi: 10.1371/journal.pone.0197319. #
8. **Engelmann C**, Splith K, Krohn S, Herber A, Boehlig A, Boehm S, Pratschke J, Berg T, Schmelzle M. Absolute quantification of microparticles by flow cytometry in ascites of patients with decompensated cirrhosis: a cohort study. **J Transl Med** 2017; 15(1):188. doi: 10.1186/s12967-017-1288-3. #
9. **Engelmann C**, Becker C, Boldt A, Herta T, Boehlig A, Splith K, Schmelzle M, Mueller N, Krohn S, Tautenhahn HM, Bartels M, Sack U, Berg T. Ascites' neutrophil function is significantly impaired in patients with decompensated cirrhosis but can be restored by autologous plasma incubation. **Sci Rep** 2016; 6:37926. doi: 10.1038/srep37926. #
10. **Engelmann C**, Krohn S, Prywerek D, Hartmann J, Herber A, Boehlig A, Zeller K, Boehm S, Berg T. Detection of molecular bacterascites in decompensated cirrhosis defines a risk

with decreased survival. **Eur J Gastroenterol Hepatol** 2016; 28(11):1285-92. doi: 10.1097/MEG.0000000000000712.

Category B

Patent application: Stem cell mobilisation in combination with toll-like receptor 4 inhibition to treat liver failure (2020)

Academic Distinctions

- Else-Kröner-Excellence Scholarship (2023 – 2025)
- Clinician Scientist Program Berlin Institute of Health (BIH) (2021 – 2023)
- DFG Fellowship (2017 – 2020)
- Young Investigator Bursary Award, International Liver Congress, EASL (2017 – 2020)
- International Early Career Investigator Award, The Liver Meeting Boston, AASLD (2019)