

## Curriculum vitae    Prof. Dr. rer. nat. Bruno Christ

**Name** Bruno Christ

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**Academic Education**

1975	Studies of biology, University of Bonn
1977	Pre-diploma biology
1980	Diploma biology
1984	Doctorate, Hormone physiology of Crustaceans
1993	Habilitation, <i>Venia legendi</i> Biochemistry, University of Göttingen
1999	Apl. professor, University of Göttingen

**Professional Career**

1979–1984	Scientific staff member, Institute of Zoophysiology, University of Bonn
1984–1989	Scientific staff member, Institute of Biochemistry and Molecular Cell Biology, University of Göttingen
1989–1995	Ass. professor
1995–1999	Assoc. professor
1999–2001	Assoc. professor, Institute of Medical Biochemistry and Genetics, University of Copenhagen
2001–2002	Chief Scientific Officer, Mediport Biotechnik GmbH, Berlin
2002–2011	Head of Molecular Hepatology Lab, 1st Dept. of Medicine, University of Halle/Saale
2011–	Full professor (W2), Applied Molecular Hepatology, Department of Visceral, Transplant, Thoracic and Vascular Surgery, University Hospital of Leipzig

### Funding (last 5 years)

<b>DFG</b>	2010–2017	Der Proteinase-aktivierte Rezeptor 2 in MSC - Bedeutung für die Entwicklung und Progression des HCC
<b>DFG</b>	2016–2019	Zelluläre und molekulare Mechanismen der Verbesserung der NASH durch MSC in der immundefizienten Maus
<b>BMBF</b>	2016–2019	The Onconoid Hub (InnoSysTox)
<b>Industry-related research</b>	2015–2019	Charakterisierung von humanen ABCB5+ Stammzellen der Haut
<b>Else-Kröner-Fresenius-Stiftung (collaboration with J. Schumacher, Marburg)</b>	2019–2020	Influence of genetic factors on the glucocorticoid response in liver tissue
<b>DFG (collaboration with H.-M. Tautenhahn, Jena)</b>	2019-2022	Experimental and clinical proof-of-concept to establish stem cell treatment of post hepatectomy liver failure

## Publications (max. 10 most relevant)

1. S. Winkler, M. Hempel, M.-J. Hsu, M. Gericke, H. Kühne, S. Brückner, S. Erler, R. Burkhardt, and B. Christ. "Immune-Deficient Pfp/Rag2-/- Mice Featured Higher Adipose Tissue Mass and Liver Lipid Accumulation with Growing Age than Wildtype C57BL/6N Mice". In: *Cells* 8.8 (2019). DOI: 10.3390/cells8080775.
2. B. Christ, U. Dahmen, K.-H. Herrmann, M. König, J. R. Reichenbach, T. Ricken, J. Schleicher, L. O. Schwen, S. Vlaic, and N. Waschinsky. "Computational Modeling in Liver Surgery." In: *Frontiers in Physiology* 8 (2017), p. 906. DOI: 10.3389/fphys.2017.00906
3. H.-M. Tautenhahn, S. Brückner, C. Uder, S. Erler, M. Hempel, M. von Bergen, J. Brach, S. Winkler, F. Pankow, C. Gittel, M. Baunack, U. Lange, J. Broschewitz, M. Dollinger, M. Bartels, U. Pietsch, K. Amann, and B. Christ. "Mesenchymal stem cells correct haemodynamic dysfunction associated with liver injury after extended resection in a pig model." In: *Scientific Reports* 7 (1 2017), p. 2617. DOI: 10.1038/s41598-017-02670-8
4. H.-M. Tautenhahn, S. Brückner, S. Baumann, S. Winkler, W. Otto, M. von Bergen, M. Bartels, and B. Christ. "Attenuation of Postoperative Acute Liver Failure by Mesenchymal Stem Cell Treatment Due to Metabolic Implications." In: *Annals of Surgery* 263 (3 2016), pp. 546–556. DOI: 10.1097/SLA.0000000000001155
5. S. Winkler, M. Hempel, S. Brückner, H.-M. Tautenhahn, R. Kaufmann, and B. Christ. "Identification of Pathways in Liver Repair Potentially Targeted by Secretory Proteins from Human Mesenchymal Stem Cells". In: *International Journal of Molecular Sciences* 17.7 (2016), p. 1099. DOI: 10.3390/ijms17071099
6. M. Hempel, A. Schmitz, S. Winkler, O. Kucukoglu, S. Brückner, C. Niessen, and B. Christ. "Pathological implications of cadherin zonation in mouse liver." In: *Cellular and Molecular Life Sciences: CMLS* 72 (13 2015), pp. 2599–2612. DOI: 10.1007/s00018-015-1861-y
7. P. Stock, S. Brückner, S. Winkler, M. Dollinger, and B. Christ. "Human Bone Marrow Mesenchymal Stem Cell-Derived Hepatocytes Improve the Mouse Liver after Acute Acetaminophen Intoxication by Preventing Progress of Injury". In: *International Journal of Molecular Sciences* 15.4 (2014), pp. 7004–7028. DOI: 10.3390/ijms15047004
8. S. Pelz, P. Stock, S. Brückner, and B. Christ. "A methionine-choline-deficient diet elicits NASH in the immunodeficient mouse featuring a model for hepatic cell transplantation". In: *Experimental Cell Research* 318.3 (2012), pp. 276–287. DOI: 10.1016/j.yexcr.2011.11.005
9. P. Stock, S. Brückner, S. Ebensing, M. Hempel, M. M. Dollinger, and B. Christ. "The generation of hepatocytes from mesenchymal stem cells and engraftment into murine liver". In: *Nature Protocols* 5.4 (2010), pp. 617–627. DOI: 10.1038/nprot.2010.7
10. H. Aurich, M. Sgodda, P. Kaltwasser, M. Vetter, A. Weise, T. Liehr, M. Brulport, J. G. Hengstler, M. M. Dollinger, W. E. Fleig, and B. Christ. "Hepatocyte differentiation of mesenchymal stem cells from human adipose tissue in vitro promotes hepatic integration in vivo". In: *Gut* 58.4 (2008), pp. 570–581. DOI: 10.1136/gut.2008.154880