

Publications By RWTH Aachen

1: Samal J, Weinandy S, Weinandy A, Helmedag M, Rongen L, Hermanns-Sachweh B, Kundu SC, Jockenhoevel S. Co-Culture of Human Endothelial Cells and Foreskin Fibroblasts on 3D Silk-Fibrin Scaffolds Supports Vascularization. *Macromol Biosci.* 2015 Jun 12. doi: 10.1002/mabi.201500054.

2: Böer U, Hurtado-Aguilar LG, Klingenberg M, Lau S, Jockenhoevel S, Haverich A, Wilhelmi M. Effect of Intensified Decellularization of Equine Carotid Arteries on Scaffold Biomechanics and Cytotoxicity. *Ann Biomed Eng.* 2015 Apr 29.

3: Diamantouros SE, Hurtado-Aguilar LG, Schmitz-Rode T, Mela P, Jockenhoevel S. Erratum to: Pulsatile Perfusion Bioreactor System for Durability Testing and Compliance Estimation of Tissue Engineered Vascular Grafts. *Ann Biomed Eng.* 2015 May;43(5):1270. doi: 10.1007/s10439-015-1303-x.

4: Weber M, Gonzalez de Torre I, Moreira R, Frese J, Oedekoven C, Alonso M, Rodríguez Cabello CJ, Jockenhoevel S, Mela P. Multiple-Step Injection Molding for Fibrin-Based Tissue-Engineered Heart Valves. *Tissue Eng Part C Methods.* 2015 Aug;21(8):832-40. doi: 10.1089/ten.TEC.2014.0396.

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7: Moreira R, Velz T, Alves N, Gesche VN, Malischewski A, Schmitz-Rode T, Frese J, Jockenhoevel S, Mela P. Tissue-engineered heart valve with a tubular leaflet design for minimally invasive transcatheter implantation. *Tissue Eng Part C Methods.* 2015 Jun;21(6):530-40. doi: 10.1089/ten.TEC.2014.0214.

8: Helmedag MJ, Weinandy S, Marquardt Y, Baron JM, Pallua N, Suschek CV, Jockenhoevel S. The effects of constant flow bioreactor cultivation and keratinocyte seeding densities on prevascularized organotypic skin grafts based on a fibrin scaffold. *Tissue Eng Part A.* 2015 Jan;21(1-2):343-52. doi: 10.1089/ten.TEA.2013.0640.

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10: Moreira R, Gesche VN, Hurtado-Aguilar LG, Schmitz-Rode T, Frese J, Jockenhoevel S, Mela P. TexMi: development of tissue-engineered textile-reinforced mitral valve prosthesis. *Tissue Eng Part C Methods.* 2014 Sep;20(9):741-8. doi: 10.1089/ten.tec.2013.0426.

11: Weinandy S, Babczyk P, Dreier A, Unger RE, Flanagan TC, Kirkpatrick CJ, Zenke

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12: Wilhelmi M, Jockenhoevel S, Mela P. Bioartificial fabrication of regenerating blood vessel substitutes: requirements and current strategies. Biomed Tech (Berl). 2014 Jun;59(3):185-95. doi: 10.1515/bmt-2013-0112. Review.

13: Weinandy S, Laffar S, Unger RE, Flanagan TC, Loesel R, Kirkpatrick CJ, van Zandvoort M, Hermanns-Sachweh B, Dreier A, Klee D, Jockenhoevel S. Biofunctionalized microfiber-assisted formation of intrinsic three-dimensional capillary-like structures. Tissue Eng Part A. 2014 Jul;20(13-14):1858-69. doi: 10.1089/ten.TEA.2013.0330.

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17: Diamantouros SE, Hurtado-Aguilar LG, Schmitz-Rode T, Mela P, Jockenhoevel S. Pulsatile perfusion bioreactor system for durability testing and compliance estimation of tissue engineered vascular grafts. Ann Biomed Eng. 2013 Sep;41(9):1979-89. doi: 10.1007/s10439-013-0823-5. Epub 2013 May 17. Erratum in: Ann Biomed Eng. 2015 May;43(5):1270.

18: Cornelissen CG, Dietrich M, Gromann K, Frese J, Krueger S, Sachweh JS, Jockenhoevel S. Fibronectin coating of oxygenator membranes enhances endothelial cell attachment. Biomed Eng Online. 2013 Jan 28;12:7. doi: 10.1186/1475-925X-12-7.

19: Dietrich M, Heselhaus J, Wozniak J, Weinandy S, Mela P, Tschoeke B, Schmitz-Rode T, Jockenhoevel S. Fibrin-based tissue engineering: comparison of different methods of autologous fibrinogen isolation. Tissue Eng Part C Methods. 2013 Mar;19(3):216-26. doi: 10.1089/ten.TEC.2011.0473.

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