

**Curriculum Vitae – Status: 02.2026**

<b>NAME</b> Katja Schenke-Layland		<b>POSITION</b> Professor of Medical Technologies and Regenerative Medicine	
<b>EDUCATION/ TRAINING</b>			
<b>INSTITUTION AND LOCATION</b>	<b>DEGREE(s)</b>	<b>YEAR(s)</b>	<b>FIELD(s) OF STUDY</b>
UCLA, Cardiovascular Research Laboratories, Los Angeles/CA, USA	Postdoctoral Research Fellow	2005-2008	Stem Cell Research/ Cardiovascular Tissue Engineering
Children's Hospital Los Angeles, Saban Research Institute, Los Angeles/CA, USA	Postdoctoral Research Fellow	2004-2005	Cardiovascular Tissue Engineering
Friedrich Schiller University (FSU) Jena, Germany	Dr.rer.nat.	2001-2004 (23.9.2004)	Biology/ Cardiovascular Tissue Engineering
Friedrich Schiller University (FSU) Jena, Germany	M.Sc.	1995-2000	Biology, Sociology, Psychology

**Personal Information:**

Birth Date/Place: March 21<sup>st</sup> 1977; Eisenach, Germany  
Citizenship: Dual Nationality: German and U.S.A.  
Website: <http://www.schenke-layland-lab.com>  
Work Addresses: [Eberhard Karls University Tübingen](#)  
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[katja.schenke-layland@nmi.de](mailto:katja.schenke-layland@nmi.de)  
ORCID: <https://orcid.org/0000-0001-8066-5157>

**Professional Experience:**

since 04/2025 **Vice-President for Research, Innovation and Transfer**, Eberhard Karls University Tübingen (EKUT), Germany  
since 04/2018 **Director**, Natural and Medical Sciences Institute, Reutlingen, Germany ([www.nmi.de/en](http://www.nmi.de/en))  
since 11/2011 **Full Professor (W3)**, EKUT, Medical Faculty, Tübingen, Germany  
since 01/2020 **CEO**, NMI-Technology Transfer (NMI-TT) GmbH, Reutlingen, Germany  
since 11/2025 **Editor-in-Chief**, Biomaterials and Living Medicine for Pharmaceuticals (Elsevier)  
since 01/2018 **Co-Editor-in-Chief**, Tissue Engineering, Part B (Sage)  
since 01/2012 **Executive Editor**, Advanced Drug Delivery Reviews (ADDR) (Elsevier)  
08/2018-06/2022 **Visiting Project Scientist/Scholar**, University of California Los Angeles (UCLA), Dept. of Medicine/ Cardiology, Cardiovascular Research Laboratories (CVRL), Los Angeles, CA, USA  
11/2013-07/2018 **Adjunct Associate Professor**, UCLA, Dept. of Medicine/ Cardiology, Los Angeles, CA, USA  
01/2016-03/2018 **Director (interim, executive)**, Fraunhofer Institute for Interfacial Engineering and Biotechnology (IGB), Stuttgart, Germany  
04/2013-03/2018 **Department Head**, Fraunhofer IGB, Dept. of Cell and Tissue Engineering, Stuttgart, Germany  
01/2010-09/2013 **Visiting Associate Professor**, UCLA, Dept. of Medicine/ Cardiology, Los Angeles, CA, USA  
01/2010-12/2014 **ATTRACT-Group Leader**, Fraunhofer IGB, Stuttgart, Germany  
01/2010-03/2013 **Deputy Department Head**, Fraunhofer IGB, Dept. of Cell and Tissue Engineering, Stuttgart, Germany  
11/2008-12/2009 **Assistant Research Professor**, UCLA, Dept. of Medicine/ Cardiology, Los Angeles, CA, USA

**Overview of Peer-Reviewed Publications:**

<b>Peer-Reviewed Articles</b>	Original Articles:	183
	Review Articles, Editorials, Commentaries, etc.:	36
	Senior/First Authorships:	71/25
	Book Chapters:	6
<b>Citations</b> <small>Web of Science</small>	Sum of the times cited:	10,660
<b>Citations</b> <small>Google Scholar</small>		17,038
<b>Total Impact Factor Points</b>		1089
<b>h-Index</b> <small>Web of Science</small>		56
<b>h-Index</b> <small>Google Scholar</small>		68

**Patents:**

- "Glycosylated protein of an extra-cellular matrix for use in a method of treating diabetes in a human or animal subject", EP3027201B1
- "A method and apparatus for providing a desired target protein expression cell line", DE102017207262A1
- "Markers for human cardiac stem cells for regenerative therapies", USA, *US Prov App Serial No. 61/828,502*
- "Glycosylated protein of an extra-cellular matrix for use in a method of treating an ischemic heart of a human or animal subject in need thereof", PCT/EP2014/066497

**Selected Research Awards/Prizes and Teaching Awards:**

- **Rosalind Franklin Society Awards in Science** (2022)
- **Hilde Mangold Award**, German Stem Cell Network (GSCN) (2021)
- **RPB Harold F. Spalter International Scholar Award** (2016)
- **Tissue Engineering and Regenerative Medicine International Society (TERMIS)-EU Young Investigator Award** (2014)
- **Young Investigator Morphological Sciences Award**, American Association of Anatomists (2010)
- **Best Young Researcher Award/ Family Klee Prize**, German Society for Biomedical Engineering (2004)
- **Teaching Award Best Module - Vital Implants**, Eberhard Karls University Tübingen (2016)
- **Teaching Award Best Module - Vital Implants**, Eberhard Karls University Tübingen (2014)
- **Teaching Award Best Module - Vital Implants**, Eberhard Karls University Tübingen (2013)

**Leadership I: Selected Academic Institutional Responsibilities and Affiliations**

- 2019-present **University Senate**, Elected Member of the Medical Faculty, EKUT, Germany
- 2018-present **Dean of Studies - Medical Technology**, Medical Faculty, EKUT, Germany
- 2018-present **Committee for Core Facilities**, Member (*NMI*), EKUT, Germany
- 2016-present **Committee for Research Strategy and Coordination**, Member (*Fh-IGB<sup>2016-2018</sup>*, *NMI<sup>since 2018</sup>*), EKUT, Germany
- 2014-present **Task Force Technology Transfer, Deputy Chair**, Medical Faculty, EKUT, Germany
- 2014-present **Research Commission**, Member, Medical Faculty, EKUT, Germany
- 2012-present **Member of the Faculty of Science**, EKUT, Germany
- 2011-present **Member of the Medical Faculty**, EKUT, Germany
- 2016-2018 **Deputy Dean of Studies - Medical Technology**, Medical Faculty, EKUT, Germany
- 2016-2018 **Klinikumsrat (Hospital Senate)**, Medical Faculty, EKUT, Germany
- 2014-2018 **Habilitation Committee**, Medical Faculty, EKUT, Germany
- 2013-2022 **Member David Geffen School of Medicine/ Medical Faculty**, UCLA, USA

**Leadership II: Selected National and International Elected/ Awarded Fellowships, Committees and Boards**

- 2022-present **Executive Board, National Academy of Science and Engineering** (acatech)
- 2022-present **Jury, State Research Award, Landesforschungspreis Baden-Württemberg**, Ministry of Science, Research and Arts Baden-Württemberg
- 2021-present **International Fellow of TERMIS** (FTERM)
- 2020-present **Member, National Academy of Science and Engineering** (acatech)
- 2020-present **Council Member, International Society for Matrix Biology** (ISMB)
- 2020-present **Deputy Chair, Innovationsallianz Baden-Württemberg e.V.** (InnBW)
- 2020-present **Deputy Chair Research, German Central Ethics Committee for Stem Cell Research** (ZES)
- 2019-present **Speaker Forum Gesundheitsstandort Baden-Württemberg** for the Ministry of Economic Affairs Baden-Württemberg
- 2018-present **Deputy Chair (Biology), German Central Ethics Committee for Stem Cell Research** (ZES)
- 2018-present **Editorial Board, Matrix Biology** (Elsevier)
- 2018-present **Editorial Board, Current Opinion in Biomedical Engineering** (Elsevier)
- 2017-present **German-Israeli Foundation (GIF) Advisory Board – Cancer and Biomedical Research Committee**
- 2017-present **Board Member, Health-i Initiative**
- 2017-present **TERMIS-European Chapter, Strategic Alliance Committee**
- 2016-present **Board Member, German Society for Matrix Biology e.V.** (DGMB)
- 2016-present **Editorial Board, Journal of 3D Printing in Medicine** (Future Medicine)
- 2015-present **Editorial Board, Tissue Engineering**, Parts A, B and C (Mary Ann Liebert)
- 2015-present **Fellow, European Alliance for Medical and Biological Engineering and Science** (EAMBES)
- 2014-present **Advisory Board, Journal of Materials Chemistry B** (Wiley)
- 2005-present **International Society for Stem Cell Research** (ISSCR)
- 2018-2024 **TERMIS-European Chapter Continental Council Member**
- 2016-2018 **Member, Fraunhofer Alliance for Life Sciences**
- 2015-2017 **Fraunhofer Vintage Class, Fraunhofer-Gesellschaft**
- 2012-2015 **American Association of Anatomist (AAA) Postdoctoral Awards Committee**
- 2011-2015 **AAA Scientific Affairs Committee**

**Leadership III: Scientific Advisory Boards / Board of Trustees**

- 2023-present **International Scientific Advisory Board, MERLN**, Institute for Technology-Inspired Regenerative Medicine, Maastricht University, The Netherlands
- 2022-present **International Scientific Advisory Board, CURAM**, SFI Research Centre for Medical Devices, University of Galway, Ireland
- 2021-present **Board of Trustees, Fraunhofer Institute for Mechanics of Materials IWM**, Freiburg, Germany
- 2021-present **Scientific Advisory Board, Leibniz Institute for Interactive Materials DWI**, Aachen, Germany
- 2020-present **Board of Trustees, Fraunhofer Institute for Photonic Microsystems IPMS**, Dresden, Germany
- 2019-present **Board of Trustees, Hertie Institute for Clinical Brain Research (HIH)**, Tübingen, Germany
- 2017-present **Scientific Advisory Council, Leibniz Institute of Photonic Technology IPHT**, Jena, Germany
- 2018-2021 **Board of Trustees, Center for Art and Media - ZKM**, Karlsruhe, Germany

**Leadership IV: Invited Mentoring Programs for Early-Stage Researchers**

- **Leibniz-Mentoring Program (2017-2018)**
- **TERMIS America SYIS (2013)**, Atlanta, USA
- **TERMIS Europe SYIS (2010)**, Galway, Ireland
- **MINT and WISP Program**, Germany

**Conference Leadership:**

- **Conference Host (2018)** Annual Meeting of the German Society of Matrix Biology (DGMB), Stuttgart, Germany
- **Conference Host (2016)** 9th European Elastin Meeting 2016, Stuttgart, Germany
- **Conference Host (2015)** bone-tec, Stuttgart, Germany
- **Conference Co-Host (2013)** Annual Meeting DGMB, Tübingen, Germany

**Special Issue Editorships (selection):**

- "Future Directions" **Advanced Drug Delivery Reviews (2022)**
- "Biomechanics" **Matrix Biology 85-86 (2020)**
- "The Future of Tissue Engineering" **Current Opinion in Biomedical Engineering 6 (2018)**
- "Extracellular Matrix Proteins and Mimics in Regenerative Medicine and Tissue Engineering" **Acta Biomaterialia 52 (2017)**
- "Strategies in Tissue Engineering" **Biotechnology Journal 8(3) (2013)**
- "From Tissue Engineering to Regenerative Medicine – The Potentials and the Pitfalls" **Advanced Drug Delivery Reviews 63(4-5) (2011)**

**International Journal Reviewer (selection, alphabetically listed):**

Acta Biomaterialia • Advanced Biomaterials • Advanced Drug Delivery Reviews • Advanced Functional Materials • American Journal of Transplantation • Biofabrication • Biomaterials • Biomedical Materials • Cardiovascular Pathology • Circulation • Circulation Research • eLife • EMBO Journal • International Journal of Pharmaceutics • Journal of Anatomy • Journal of Biophotonics • Journal of Investigative Dermatology • Journal of the Royal Society Interface • Journal of Structural Research • Macromolecular Bioscience • Matrix Biology • Molecular Therapy • PLoSOne • PNAS • Scientific Reports • Tissue Engineering Part A, B and C

**International Grant Reviewer (selection, alphabetically listed):**

- **Australia** – Australian Research Council (ARC)
- **Austria** – Austrian Science Fund (FWF)
- **Belgium** – Research Council: Katholieke Universiteit Leuven
- **Canada** – ALS Society of Canada  
– Québec Consortium for Drug discovery (CQDM)
- **EU** – ERC Starting Grant and Consolidator Grant
- **Finland** – Academy of Finland
- **France** – L'Agence nationale de la recherche (ANR)
- **Germany** – Deutsche Forschungsgemeinschaft/ German Research Foundation (DFG)  
– Bundesministerium für Bildung und Forschung/ Fed. Min. of Education and Research (BMBF)  
– Alexander von Humboldt Foundation  
– Helmholtz Association (Young Investigator Groups)  
– VolkswagenStiftung  
– Deutsche Krebshilfe
- **Iceland** – Icelandic Research Fund
- **Ireland** – Science Foundation Ireland (SFI)
- **Israel** – Israeli Ministry of Science, Technology and Space  
– Advisor, German-Israeli Foundation (GIF)
- **Netherlands** – Dutch Technology Foundation STW  
– Dutch Burns Foundation
- **UK** – Arthritis Research  
– UK Regenerative Medicine Platform

**Certifications:**

- FELASA B and C (EU certified animal safety instructor/supervisor)
- Laser Safety Officer (VBG 93/BGV B2)
- Certificate, Training for project leaders in biological safety (§ 15 Abs. 2 GenTSV)

**Other Notable Accomplishments:**

- Handelsblatt magazine's Top 100 Innovators in Germany (2017)
- Academia.net top 100 female scientists in Germany (2010)
- Nominee UCLA Chancellor's Award for Postdoctoral Research (2007)

**Ongoing Support as PI (only own contribution is listed):**

<b>DFG (Co-PI)</b> <i>Cluster of excellence iFIT (EXC 2180)</i>	390900677	since 2019	<b>~€325.000</b>
<b>DFG GRK 2543/1 (Co-PI, Project A3)</b> <i>Intraoperative multi-sensor tissue identification in oncology</i>	40947457	2020-2029	<b>~€466.830</b>
<b>EU Horizon 2021-MSCA-ITN-DN-01</b> <i>flIMAGIN3D (EKUT)</i>	101073507	2023-2026	<b>€260.539</b>
<b>University Hospital Teaching Program PROFIL</b>		2023/24	<b>€30.000</b>

**Completed Support as PI:**

<b>EU Horizon 2020-MSCA-ITN-EID</b> <i>DELIVER (EKUT)</i>	812865	2019-2022	<b>€505.576</b>
<b>Ministry of Economic Affairs Baden-Württemberg</b> <i>MDR/ IVDR Competency Center (NMI, PI/Coordinator)</i>		2021-2022 <i>Project</i>	<b>€2.835.000</b> <i>€3.361.270</i>
<b>Ministry of Economic Affairs Baden-Württemberg</b> <i>SolidCAR-T (NMI, Co-PI)</i>		2021-2022	<b>€1.666.800</b>
<b>Ministry of Economic Affairs Baden-Württemberg</b> <i>Predictive diagnosis of immune-associated diseases for personalized medicine (NMI, PI/Coordinator)</i>		2020-2022	<b>€4.309.464</b>
<b>Ministry of Economic Affairs Baden-Württemberg</b> <i>Large Instrument Grant- Infrastructure for Corona-Research EFRE EVI-2014-2020 (NMI)</i>		2020/2021	<b>€2.000.000</b>
<b>DFG</b> <i>Blood vessel tissue engineering (EKUT)</i>	SCHE701/14-1	2016-2020	<b>€217.150</b>
<b>EU Horizon 2020 NMP-10-2014</b> <i>DRIVE (EKUT)</i>	645991	2015-2019	<b>€679.153</b>
<b>Ministry of Economic Affairs Baden-Württemberg</b> <i>Large Instrument Grant- Raman/CARS Microspectrometer (NMI)</i>	3-4332.62-NMI/65	2020	<b>€700.000</b>
<b>University Hospital Teaching Program PROFIL</b>		2020	<b>€30.000</b>
<b>Ministry of Economic Affairs Baden-Württemberg</b> <i>Large Instrument Grant</i>		2018	<b>€700.000</b>
<b>Ministry of Economic Affairs Baden-Württemberg</b> <i>Large Instrument Grant</i>		2018	<b>€200.000</b>
<b>Fraunhofer MAVO</b> <i>OptisCell (Fh-IGB)</i>	122610	2015-2018	<b>€306.876</b>
<b>EU FP7 NMP3-SME-2013-604531</b> <i>AMCARE (Fh-IGB)</i>	604531	2014-2017	<b>€733.000</b>
<b>DFG</b> <i>Ice Free Heart Valve Cryopreservation (EKUT)</i>	SCHE701/10-1	2014-2017	<b>€125.250</b>
<b>ZIM – AiF</b> <i>Artificial Heart Development (EKUT)</i>	KF3349501CR4	2015-2017	<b>€174.756</b>
<b>DFG Large Instrument Grant</b> <i>Raman Microspectroscope</i>	INST 2388/64-1	01.2017	<b>€195.000</b>
<b>Industry-on-campus Fonds, MWK Baden-Württemberg</b> <i>Raman Spectroscopy for intraoperative tissue differentiation (Fh-IGB/ IGVP)</i>	83820131	2012-2016	<b>€133.173</b>
<b>MWK Baden-Württemberg</b> <i>(EKUT)</i>	33-729.55-3/214	2015-2016	<b>€200.000</b>
<b>University Hospital Teaching Program PROFIL</b>		2015	<b>€30.000</b>

<b>BMBF-CIRM Collaborative Grant</b>	0316059	2012-2015	<b>€1.072.042</b>
<b>DFG Optical Cellular Reprogramming</b>	SCHE701/7-1	2012-2015	<b>€304.425</b>
<b>DFG Large Instrument Grant Fluorescence Microscope</b>	INST 2388/34-1	05.2013	<b>€127.758</b>
<b>DFG Large Instrument Grant 5D Multiphoton System</b>	INST 2388/30-1	02.2013	<b>€275.000</b>
<b>DFG Large Instrument Grant ImageStreamX</b>	INST 2388/33-1	01.2013	<b>€265.000</b>
<b>MWK Baden-Württemberg</b>	SI-BW 01222-91	08.2011	<b>€750.000</b>
<b>MWK Baden-Württemberg</b>	33-729.55-3/214	2012-2014	<b>€300.000</b>
<b>Fraunhofer Attract Group Leader Grant</b>	Attract 692263	2010-2014	<b>€2.704.413</b>
<b>DFG Research Grant, Co-Investigator</b>	STO 359/7-1	2007-2010	<b>€240.000</b>
<b>NIH-Ruth L. Kirschstein Training Grant</b>	5T32HL007895-10	2007-2009	<b>\$165.000</b>
<b>DFG - Postdoctoral Research Fellowship</b>	SCHE 701/2-1	2005-2007	<b>€52.800</b>

### **Complete List of Peer-Reviewed Publications (without book chapters: \*authors contributed equally):**

#### **2026**

1. Platelet casein kinase 2alpha is a pivotal player in arterial thrombotic occlusion am post-ischemic myocardial remodeling. Fischer M, Sigle M, Manke MC, Marzi J, Schütte JP, Sun N, Scheuermann S, Kopczynski D, Kollotzek F, Lings GD, Coman C, Koeppen M, Nagy Z, Rohlfing AK, Sickmann A, Lickmann A, Litchfield DW, Rebholz H, Seitz C, Heinzmann D, Schaller M, Nieswandt B, **Schenke-Layland K**, Gawaz M, Walch A, Ahrends R, Münzer P, Borst O. **Cardiovasc Res in press** (2026)
2. Genetic engineering approaches in stem and somatic cells for the generation of insulin-producing b-cells. Jeyagaran A, **Schenke-Layland K**. Adv Drug Deliv Rev 230: 115766 (2026) (**Review**)

#### **2025**

3. Minoxidil and nebivolol restore aortic elastic fiber homeostasis in diabetic mice via potassium channel activation. Henry A, Vanalderwiert L, Oszust F, Wahart A, Carvajal Berrio DA, Brauchle EM, **Schenke-Layland K**, Brinckmann J, Steenbock H, Debelle L, Six I, Faury G, Jaisson S, Gillery P, Durlach V, Sartelet H, Maurice P, Bennasroune A, Martiny L, Duca L, Romier B, Blaise S. Front Physiol 16: 1648727 (2025)
4. Impact of pulse duration on cardiac electroporation: nanosecond pulses enhance cardiomyocyte selectivity and promote a Raman-detected shift towards apoptotic cell death. Sowa PW, Mariyanats A, Kielbik A, Rohlfing AK, Novickij V, Kollotzek F, Sigle M, Marzi J, **Schenke-Layland K**, Borst O, Gawaz MP. Europace 27(9): euaf217 (2025)
5. ECM Proteins Nidogen-1 and Decorin Restore Functionality of Human Islets of Langerhans upon Hypoxic Conditions. Jeyagaran A<sup>1</sup>, Urbanczyk M<sup>1</sup>, Carvajal-Berrio D, Baldissera T, Kaiser PD, Kuhlburger L, Czemplak S, Nahnsen S, Duffy GP, Brucker S, Layland SL<sup>2</sup>, **Schenke-Layland K**<sup>2</sup>. Adv Healthc Mater 14(2): e2403017 (2025)
6. Clinical translation of 3D-printed patient-specific bone implants: a consensus statement. Laubach M, Cheers GM, Frankenbach-Desor T, Weimer LP, Baumgartner H, Böcker W, Burgkart R, Cidonio G, D'Este M, Dirnagl U, Drude N, Eschweiler J, Friebe M, Ganse B, Hartmann H, Hildebrand F, Hoog Antink C, Kim M, Kneser U, Lojkowski W, Marmitt G, Mayer-Wagner S, Praster M, Reimers N, **Schenke-Layland K**, Schulz AP, Spicher N, Stoppe C, Toelch U, van Griensven M, Wehrle E, Weschke S, Holzappel BM, Hutmacher DW. Int J Surg 111(11): 7497-7506 (2025) (**Review**)
7. [3D printing in surgery: relevance of technology maturity assessment in bioprinting research studies]. Laubach M, Hartmann H, Holzappel BM, Mayer-Wagner S, **Schenke-Layland K**, Hutmacher DW. Chirurgie (Heidelb) 96(4): 306-315 (2025) (**Review**)
8. Heterogeneity of endothelial cells impacts the functionality of human pancreatic in vitro models. Urbanczyk M, Abuhelou A, Köninger M, Jeyagaran A, Carvajal-Berrio D, Kim E, Marzi J, Loskill P, Layland SL, **Schenke-Layland K**. Tissue Eng Part A 31(13-14): 988-1004 (2025)

#### **2024**

9. Exploring aortic stiffness in aging mice: a comprehensive methodological overview. Vanalderwiert L, Henry A, de Souza E Silva JM, Carvajal-Berrio D, Debelle L, Wahart A, Marzi J, **Schenke-Layland K**, Faury G, Six I, Schmelzer CEH, Brinckmann J, Steenbock H, Almagro S, Delacoux F, Jaisson S, Gillery P, Maurice P, Sartelet H, Bennasroune A, Duca L, Romier B, Blaise S. Aging (Albany NY) 17(2): 280-307 (2024)
10. Patient iPSC-derived neural progenitor cells display aberrant cell cycle control, p53, and DNA damage response protein expression in schizophrenia. Stahl A, Heider J, Wüst R, Fallgatter AJ, **Schenke-Layland K**, Volkmer H, Templin M. BMC Psychiatry 24(1): 757 (2024)
11. Targeting Cyclophilin A in the cardiac microenvironment preserves heart function and structure in failing hearts. Sigle M, Rohlfing AK, Cruz Santos M, Kopp T, Krutzke K, Gidlund V, Kollotzek F, Marzi J, von Ungern-Sternberg S, Poso A, Heikenwälder M, **Schenke-Layland K**, Seizer P, Möllmann J, Marx N, Feil R, Feil S, Lukowski R, Borst O, Schäffer TE, Müller KAL, Gawaz MP, Heinzmann D. Cir Res 135(7): 758-773 (2024)
12. Metabolic syndrome-associated murine aortic wall stiffening is associated with premature elastic fibers aging. Vanalderwiert L, Henry A, Wahart A, Carvajal Berrio DA, Brauchle EM, El Kaakour L, **Schenke-Layland K**, Brinckmann J, Steenbock H, Debelle L, Six I, Faury G, Jaisson S, Gillery P, Durlach V, Sartelet H, Maurice P, Bennasroune A, Martiny L, Duca L, Romier B, Blaise S Am J Physiol Cell Physiol 327(3): C698-C715 (2024)

13. MYCT1 controls environmental sensing in human hematopoietic stem cells. Aguadé-Gorgorió J, Jami-alahmadi Y, Calvanese V, Kardouh M, Fares I, Johnson H, Rezek V, Ma F, Magnusson M, Wang Y, Shin JE, Nance KJ, Goodridge HS, Liebscher S, **Schenke-Layland K**, Crooks GM, Wohlschlegel JA, Mikkola HKA. *Nature* 630(8016): 412-420 (2024)
  14. Forward programming of hiPSCs towards beta-like cells using Ngn3, Pdx1, and MafA. Jeyagaran A, Urbanczyk M, Layland SL, Weise F, **Schenke-Layland K**. *Sci Rep* 14(1): 13608 (2024)
  15. Characteristics associated with COVID-19 breakthrough infections after booster vaccination in healthcare workers: Insights from the TüSeRe:exact Study. Uzun G, Bareiß A, Becker M, Althaus K, Dulovic A, Junker D, **Schenke-Layland K**, Martus P, Borst O, Schneiderhan-Marra N, Bakchoul T. *J Clin Med* 13(6): 1571 (2024)
  16. Deciphering UVA/Riboflavin collagen crosslinking: A pathway to improve biomedical materials. Fan L, Jung O, Herrmann M, Shirokikh M, Stojanovic S, Najman S, Körte F, Xiong X\*, **Schenke-Layland K\***, Barbeck M\*. *Adv Funct Mater* 2401742 (2024)
  17. Human tissue-resident peritoneal macrophages reveal resistance towards oxidative cell stress induced by non-invasive physical plasma. Schultze-Rhonhof L, Marzi J, Carvajal Berrio DA, Holl M, Braun T, Schäfer-Ruoff F, Andress J, Bachmann C, Templin M, Brucker SY, **Schenke-Layland K**, Weiss M. *Front Immunol* 15: 1357340 (2024)
  18. Functionally-instructed modifiers of response to ATR inhibition in experimental glioma. Walter B, Hirsch S, Kuhlburger L, Stahl A, Schnabel L, Wissner S, Haeusser LA, Tsiami F, Plöger S, Aghaallaei N, Dick AM, Skokowa J, Schmees C, Templin M, **Schenke-Layland K**, Tatagiba M, Nahnsen S, Merk DJ, Tabatabai G. *J Exp Clin Cancer Res* 43(1): 77 (2024)
  19. Microphysiological pancreas-on-chip platform with integrated sensors to model endocrine function and metabolism. Schlünder K, Cipriano M, Zbinden A, Fuchs S, Mayr T, **Schenke-Layland K**, Loskill P. *Lab Chip* 24(7): 2080-2093 (2024)
  20. 30 Years of Tissue Engineering. Fisher JP, Mikos AG, **Schenke-Layland K**, Shin H, Jansen JA, Wang X. *Tissue Eng Part A* 30 (1-2): 3-4 (2024) (**Editorial**)
  21. The extracellular matrix as hallmark of cancer and metastasis: from biomechanics to therapeutic targets. Sleeboom JJF, van Tienderen GS, **Schenke-Layland K**, van der Laan LJW, Khalil AA, Versteegen MMA. *Science Transl Med* 16(728): eadg3840 (2024) (**Review**)
  22. "Future Directions" – Novel breakthrough developments in the fields of Drug Development & Delivery, and Regenerative Medicine. **Schenke-Layland K**, MacKay A. *Adv Drug Deliv Rev* 205: 115159 (2024) (**Editorial**)
- 2023**
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