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Professor of Bioscience

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Education

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| 2004, April | Habilitation and Venia Legendi in Endocrinology
Medical University Lübeck, Germany |
| 1990, April | Ph.D. in Molecular Biology
University of Cologne, Germany
Massachusetts Institute of Technology, Cambridge, USA
Thesis advisor: Prof. Alexander Rich, Prof. Walter Doerfler |
| 1986, July | M.S. in Chemistry
University of Cologne, Germany |
| 1980, April | B.S. in Physics
University of Cologne, Germany |

Experience

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| 2019 – present | Chair of the Bioengineering Program at KAUST
Chair of the newly established Bioengineering Program involving all three KAUST Divisions |
| 2016 – 2020 | Founder of PepPrint
Founder of KAUST spin-off company PepPrint to provide state-of-the-art technologies in 3D/4D bioprinting for applications in tissue engineering, regenerative medicine, and diagnostics |
| 2015 - present | Professor of Bioscience and Bioengineering
King Abdullah University of Sciences and Technology
Biological and Environmental Science and Engineering |
| 2011 - 2015 | Full Professor (Adjunct)
Nanyang Technological University, Singapore
School of Biological Sciences |

- 2009 - 2015 **Team Leader and Principal Research Scientist**
Institute of Bioengineering and Nanotechnology, Singapore
- 2007 - 2009 **Principal Investigator**
Ludwig-Maximilians-University, Munich, Germany
- 2006 – 2007 **Visiting Professor**
Sichuan University, Chengdu, China
- 2006 - 2007 **Consultant**
Hauser Scientific Consultant, Munich, Germany
- 2004 - present **External Faculty Member**
Medical University Lübeck, Germany
- 1997 - 2006 **Managing Director (CEO) and Founder/Partner**
Octagene GmbH (Theragene), Martinsried/Munich, Germany
- 1993 - 1997 **Group Leader**
Max-Planck-Institute for Psychiatry, Munich, Germany
- 1990 - 1993 **Postdoctoral Fellow (Poste Vert)**
Institut National de la Santé et de la Recherche Médicale
Laboratoire Hormones, INSERM U 33, Paris, France
Mentor: Prof. Emile-Etienne Baulieu
- 1990 **Postdoctoral Research Fellow**
Massachusetts Institute of Technology, Cambridge, USA
Mentor: Prof. Alexander Rich

Awards and Honors

- 2018 Elected as Honorary Member of the Genomic Society, Pakistan
- 2017 First Prize Winner at the IEEE GCC SYP International Technology and Innovation Contest at Bahrain
- 2017 Team Award 2017, KAUST Lab Safety Recognition
- 2015 Election to the rank of NAI Fellow by the National Academy of Inventors (NAI), Washington, USA
- 2012 Election to the rank of AIMBE Fellow by the American Institute for Medical and Biological Engineering's (AIMBE) College of Fellows
- 2008 Bavarian Research Association Award
- 2001 Inducted to the International Association of Business Leaders
- 1993 French Société des Amis des Sciences Award
- 1992 - 1993 Collège de France "Naturalia et Biologia" Fellow
- 1991 INSERM "Poste vert" Fellow
- 1987 - 1989 DAAD Scholar
- 1985 German Federal Ministry of Science and Technology (BMFT) Award for Master Research

Visiting Professorship

2006-2007 Sichuan University, Chengdu, China

Professional Activities

Member, German Chemical Society (GDCh)
Member, American Chemical Society (ACS)
Member, Stem Cell Society Singapore
Academic Editor of PLoS One
Associate Editor of Frontiers in Chemical Biology
Editorial Board Member of the International Journal of Bioprinting

Teaching Experience

2015 – present	Lectures, Seminars and Courses at King Abdullah University of Science and Technology (KAUST), Thuwal
2011 - 2015	Lectures, Seminars and Courses at Nanyang Technological University (NTU), Singapore
2004 - 2009	Lectures and Seminars at Medical University Lübeck In Molecular Endocrinology and Oncology
2003 - 2004	Lecture series at Medical Faculty, Ludwig-Maximilians-University Molecular Basis and Principles of Hemostasis and Transfusion Medicine
1993 - 2006	Supervisor Graduate Student Program at TU Munich
1991 - 1993	Supervisor Diplome D'Études Aprofondies (DEA), Paris, France
1985 - 1987	Instructor Courses on “Baculovirus expression system”, Department of Genetics, University of Cologne, Cologne, Germany
1985 – 1986	Teaching Assistant Institute of Genetics, University of Cologne, Germany

Publications

1. S. Alshehri, H. H. Susapto, and C. A. E. Hauser, "Scaffolds from Self-Assembling Tetrapeptides Support 3D Spreading, Osteogenic Differentiation and Angiogenesis of Mesenchymal Stem Cells", (2021) under revision.
2. K. A. Seferji, H. H. Susapto, B. Khan, C. A. E. Hauser, "Generation of hybrid silver-peptide nanoparticles for antibacterial and antifouling applications", (2021), ready for submission.
3. W. Arab, H. H. Susapto, C. A. E. Hauser, "Peptide Nanogels as Scaffold for Fabricating Dermal Grafts and 3D Skin Models", (2021), ready for submission.
4. Z. Khan, K. Kahin, and C. A. E. Hauser, "Time-Dependent Pulsing of Microfluidic Pumps to Enhance 3D Bioprinting of Peptide Bioinks" (2021), submitted.
5. G. Ramirez-Calderon, H. H. Susapto, and C. A. E. Hauser, "Delivery of endothelial cell-laden microgel elicits angiogenesis in self-assembling ultrashort hydrogels", (2021), submitted.
6. Y. Loo, A. C. A. Wan, C. A. E. Hauser, E. B. Lane, and P. Benny, "Xeno-free self-assembling peptide scaffolds for building 3D organotypic skin cultures", (2021) submitted.
7. H. H. Susapto, D. M. Alhattab, S. A. Abdelrahman, K. M. Kahin, Z. Khan, S. Alshehri, R. Ge, M. Moretti, A.-H. Emwas, and C. A. E. Hauser, Ultrashort Peptide Bioinks Support Automated Printing of Large-Scale Constructs Assuring Long-Term Survival of Printed Tissue Constructs, *Nano Letters* (2021), doi.org/10.1021/acs.nanolett.0c04426.
8. S. Rauf, H. H. Susapto, K. Kahin, S. Alsheri, S. Abdelrahman, J. Horming Lam, S. Asad, S. Jadhav, D. Sundaramoorthi, X. Gao and C. A. E. Hauser, "Self-Assembling Ultrashort Peptides Allow In Situ 3D Bioprinting Under Physiological Conditions", *Journal of Materials Chemistry B* 9 (2021) 1069-1081.
9. R. Pérez-Pedroza, A. Ávila-Ramírez, Z. Khan, M. Moretti, and C. A. E. Hauser, Supramolecular biopolymers for tissue engineering, *Advances in Polymer Technology* (2021), 8815006.
10. H. Alzanbaki, M. Moretti, and C. A. E. Hauser, "Engineered microgels –manufacturing, biomedical applications and fabrication from self-assembling peptides", *Micromachines* 12 (2021) 45-64.
11. S. Abdelrahman, M. Alghrably, J. I. Lachowicz, A.-H. Emwas, C. A. E. Hauser, and M. Jaremko, "What Doesn't Kill You Makes You Stronger": Future Applications of Amyloid Aggregates in Biomedicine", *Molecules* 25 (2020) 5245-5270.

12. S. Schmidt-Roach, M. Arranda, C. A. E. Hauser, and C. M. Duarte, "Beyond Reef Restoration: Next-generation techniques for coral gardening, landscaping, and outreach", *Frontiers of Marine Science* 7 (2020), 672.
13. W. Arab and C. A. E. Hauser, "Ultrashort Tetrameric Peptide Nanogels Support Tissue Graft Formation, Wound Healing and 3D Bioprinting", in *Peptide-Based Biomaterials*, Ed. M. Guler, Royal Society of Chemistry, Chapt.11 (2020) 363-394.
14. M. Ni, G. Tresset, C. Iliescu, and C.A.E. Hauser, "Ultrashort, published peptide theranostic nanoparticles by microfluidic-assisted rapid solvent exchange", *IEEE Transactions on NanoBioscience* (2020).
15. S. Ghalayini, H. H. Susapto, S. Hall, K. Kahin, and C. A. E. Hauser, "Preparation and printability of ultrashort self-assembling peptide nanoparticles", *International Journal of Bioprinting*, 5 (2) 239 (2019) 109-116.
16. W. Arab, K. Kahin, Z. Kahn, and C. A. E. Hauser, "Exploring nanofibrous self-assembling peptide hydrogels using mouse myoblast cells for three-dimensional bioprinting and tissue engineering applications", *International Journal of Bioprinting*, 5 (2) (2019) 74-82.
17. W. Y. Seow, K. Kandasamy, K. Purnamawati, W. Sun, and C. A. E. Hauser, "Thin Peptide Hydrogel Membranes Suitable as Scaffolds for Engineering Layered Biostructures", *Acta Biomaterialia*, 19 (2019) 30105-9.
18. M. Ni, S. Zhuo, C. Iliescu, P. T. C. So, J. S. Mehta, H. Yu, and C. A. E. Hauser, "Self-Assembling Amyloid-Like Peptides as Exogenous Second Harmonic Probes for Bioimaging Applications", *Journal of Biophotonics* (2019) e201900065.
19. K. Kahin, Z. Khan, M. Albagami, S. Usman, S. Bahanshal, H. Alwazani, M. A. Majid, S. Rauf, and C. A. E. Hauser, "Development of a Robotic 3D Bioprinting and Microfluidic Pumping System for Tissue and Organ Engineering", *Proceedings of SPIE, the International Society for Optics and Photonics, Microfluidics, BioMEMS and Medical Microsystems* 12 (2019) 10875Q1-Q10.
20. Y. Loo, Y. S. Chan, I. Szczerbinska, B. C. P. Tan, A. C. A. Wan, H. H. Ng, and C. A. E. Hauser, "A Chemically Well-Defined, Self-Assembling 3D Substrate for Long Term Culture of Human Pluripotent Stem Cells", *ACS Applied Bio Materials* 2,4 (2019) 1406-1412.
21. Z. Khan, K. Kahin, S. Rauf, G. Ramirez Calderon, N. Papagiannis, M. Abdulmajid, and C. A. E. Hauser, "Optimization of a 3D Bioprinting Process Using Ultrashort Peptide Bioinks", *International Journal of Bioprinting*, 5 (2018) 173.
22. W. T. Arab, A. M. Niyas, K. Seferji, H. H. Susapto, I. Alexander, I. Cima, and C. A. E. Hauser, "Evaluation of Peptide Nanogels for Accelerated Wound healing in Normal Minipigs", *Frontiers in Nanoscience and Nanotechnology*, 4 (2018), 2-9.

23. M. Saleem, S. S. Qutub, H. H. Susapto, and C. A. E. Hauser, "Impact of Aggregation Triggering Ultrashort Self-Assembling Peptide Motifs on the Solubility of Proteins", *Frontiers in Nanoscience and Nanotechnology*, 4 (2018), 1-6.
24. K. H. Chan, W. H. Lee, M. Ni, Y. Loo and C. A. E. Hauser, "C-Terminal residue of Ultrashort peptides Impacts on Molecular Self-assembly, Hydrogelation, and Interaction with Small-Molecule Drugs," *Scientific Reports* 8 (2018), 17127.
25. W. Arab, S. Rauf, O. Al-Harbi, and C. A. E. Hauser, "Novel Ultrashort Self-Assembling Peptide Biinks for 3D Culture of Muscle Myoblast Cells", *International Journal of Bioprinting* 4 (2018), 129.
26. R. M. Costa, S. Rauf, and C. A. E. Hauser, "Towards Biologically relevant Synthetic Designer Matrices in 3D Bioprinting for Tissue Engineering and Regenerative Medicine", *Current Opinion in Biomedical Engineering* 2 (2017), 90–98.
27. K. H. Chan, B. Xue, R. C. Robinson and C. A. E. Hauser, " Systematic Moiety Variations of Ultrashort Peptides Produce Profound Effects on Self-Assembly, Nanostructure Formation, Hydrogelation, and Phase Transition," *Scientific Reports* 7 (2017), 12897.
28. W.Y. Seow, G. Salgado, E.B. Lane, and C.A.E. Hauser, "Transparent crosslinked ultrashort peptide hydrogels as a carrier dressing with high shape fidelity to accelerate healing of full-thickness excision wounds," *Scientific Reports* 6 (2016), 32670.
29. I. Cima, S. L. Kong, D. Sengupta, I. B. Tan, W. M. Phyto, D. Lee, M. Hu, C. Iliescu, I. Alexander, W. L. Goh, M. Rahmani, N.-A. M. Suhaimi, J. H. Vo, J. A. Tai, J. H. Tan, C. Chua, R. Ten, M. H. Chew, C. A.E. Hauser, R. M. van Dam, W.-Y. Lim, S. Prabhakar, B. Lim, P. K. Koh, P. Robson, J. Y. Ying, A. M. Hillmer, and M.-H. Tan, "Tumor-derived circulating endothelial cell clusters in colorectal cancer", *Science Translational Medicine* 8 (2016) 345ra89.
30. H. A. Khattak, S. Rauf, and C.A.E. Hauser," Formation of Microgel Particles from Ultrashort Self-assembling Peptides for Dental Stem Cell Delivery", *Organon Newsletter* 2 (2016) 8-9.
31. W. Y. Seow and C. A. E. Hauser,"Freeze-dried agarose gels: A cheap, simple and recyclable adsorbent for the purification of methylene blue from industrial wastewater", *Journal of Environmental Chemical Engineering* 4 (2016) 1714-1721.
32. D. Sundaramurthi, S. Rauf, and C. A. E. Hauser, "3D Bioprinting for Applications in Regenerative Medicine", *International Journal of Bioprinting* 2 (2016) 9-16.
33. E. Di Fabrizio, S. Schlücker, J. Wenger, R. Regmi, H. Rigneault, G. Calafiore, M. West, S. Cabrini, M. Fleischer, N. van Hulst, M. F. Garcia-Parajo, A. Pucci, D. Cojoc, C. A. E.

- Hauser, and M. Ni, "Roadmap on Biosensing and Photonics for Nanomedicine", *Journal of Optics* 18 (2016) 063003.
34. Y. Loo and C.A.E. Hauser, "Bioprinting Synthetic Self-Assembling Peptide Hydrogels for Biomedical Applications", *Biomedical Materials* 11 (2016) 014103.
35. G. Marinaro, A. Accardo, N. Benseny-Cases, M. Burghammer, H. Castillo-Michel, M. Cotte, S. Dante, F. De Angelis, E. Di Cola, E. Di Fabrizio, C. Hauser and C. Riekell: Probing droplets with biological colloidal suspensions on smart surfaces by synchrotron radiation micro- and nano-beams, *Optics and Lasers in Engineering* 76 (2016) 57-63.
36. Y. Loo, A. Lakshmanan, M. Ni, L. L. Toh, S. Wang, and C. A.E. Hauser, "Peptide Bioink: Self-Assembling Nanofibrous Scaffolds for 3D Organotypic Cultures," *Nano Letters* 15 (2015) 6919-6925.
37. Y. Loo, M. Göktaş, A.B. Tekinay, M.O. Guler, C.A.E. Hauser, and A. Mitraki, "Self-assembled proteins and peptides as scaffolds for tissue regeneration," *Advanced Healthcare Materials* 4 (2015) 2557-2586.
38. F. Lee, J. Lim, M. R. Reithofer, S. S. Lee, J. E. Chung, C. A. E. Hauser and M. Kurisawa, "Synthesis and Bioactivity of a Conjugate Composed of Green Tea Catechins and Hyaluronic Acid," *Polymer Chemistry*, 6 (2015) 4462-4472.
39. K.H. Chan, Jaspreet and C.A.E. Hauser, "The wonder stuff – How peptide hydrogels could change the face of biomedicine," *Laboratory News* (2015).
40. M. R. Reithofer, A. Lakshmanan, A. T. K. Ping, J. M. Chin and C.A.E. Hauser, "In situ Synthesis of Size-Controlled, Stable Silver Nanoparticles within Ultrashort Peptide Hydrogels and their Anti-Bacterial Properties," *Biomaterials*, 35 (2014) 7535-7542.
41. J. Smadbeck, K. H. Chan, G. A. Khoury, B. Xue, R. C. Robinson, C. A. E. Hauser, and C. A. Floudas, "De Novo Design and Experimental Characterization of Ultrashort Self-Associating Peptides," *PLOS Computational Biology* 10 [7] (2014) e1003718.
42. E. Z. Cai, C. H. Ang, A. Raju, K. B. Tan, E. C. H. Hing, Y. Loo, Y. C. Wong, H. Lee, J. Lim, S. M. Moochhala, C. A. E. Hauser, and T. C. Lim, *Archives of Plastic Surgery*, 41 (2014) 317-324.
43. M. Ni and C. A. E. Hauser, "Self-Assembled peptide Nanostructures for Regenerative Medicine and Biology," in "Micro- and Nano-Fabrication Using Self-Assembled Biological Nanostructures", J. Castillo-Leon and W. Svendsen ed., Elsevier (2014).
44. K. H. Chan and C. A .E. Hauser, "P-Glycoprotein-dependent trafficking of nanoparticle-drug conjugates," *Materials View* 2014.

45. C. A. E. Hauser, S. Maurer-Stroh and I. C. Martins, "Amyloid-Based Nanosensors and Nanodevices," *Chemical Society Reviews*, 43 (2014) 5326-45.
46. W. Y. Seow and C. A. E. Hauser, "Short to Ultrashort Peptide Hydrogels for Biomedical Uses," *Materials Today* 17 (2014), 381–388.
47. Y. Loo, Y. C. Wong, E. Z. Cai, C. H. Ang, A. Raju, A. Lakshmanan, A. G. W. Koh, H. J. Zhou, T. C. Lim, S. M. Moochhala, and C. A. E. Hauser, "Ultrashort Peptide Nanofibrous Hydrogels for the Acceleration of Healing of Burn Wounds," *Biomaterials*, 35 (2014) 4805-14.
48. M. R. Reithofer, K.-H. Chan, A. Lakshmanan, D. H. Lam, A. Mishra, B. Gopalan, M. Joshi, S. Wang, and C. A. E. Hauser, "Ligation of Anti-Cancer Drugs to Self-Assembling Ultrashort Peptides by Click Chemistry for Localized Therapy," *Chemical Science*, 5 (2014) 625-630.
49. A. Mishra, K.-H. Chan, M. R. Reithofer, and C. A. E. Hauser, "Influence of Metal Salts on the Hydrogelation Properties of Ultrashort Aliphatic Peptides," *RSC Advances*, 3 (2013) 9985-9993.
50. W. Y. Seow and C. A. E. Hauser, "Tunable Mechanical Properties of Ultrasmall Peptide Hydrogels by Crosslinking and Functionalization to Achieve the 3D Distribution of Cells," *Advanced Healthcare Materials*, 2 (2013) 1219-1223.
51. W. Y. Seow and C. A. E. Hauser, "A Convenient and Minimally-Invasive Method to Study Gel Formation by Surface Tension Measurements," *Journal of Chemical Science and Technology*, 2 (2013) 88-92.
52. W. Y. Seow, K. Liang, M. Kurisawa, and C. A. E. Hauser, "Oxidation as a Facile Strategy to Reduce the Surface Charge and Toxicity of Polyethyleneimine Gene Carriers," *Biomacromolecules*, 14 (2013) 2340-2346.
53. A. Lakshmanan, D. W. Cheong, A. Accardo, E. Di Fabrizio, C. Riekkel, and C. A. E. Hauser, "Aliphatic Peptides Show Similar Self-Assembly to Amyloid Core Sequences, Challenging the Importance of Aromatic Interactions in Amyloidosis," *PNAS*, 110[2] (2013) 519-524.
54. Y. Loo, E.C. Wu, A. Lakshmanan, A. Mishra, and C.A.E. Hauser, "Self-Assembled Peptide Nanostructures: Advantages and Challenges for Their Use in Nanobiotechnology," In J. Castillo (Ed), Pan Stanford Publishing, (2012).
55. C. A. E. Hauser and Y. Loo, "Peptide Hydrogels Support Stem Cell Applications in Regenerative Medicine," *Gynäkologische Endokrinologie*, 10 (2012) 255-264.
56. E.C. Wu, S. Zhang, and C.A.E. Hauser, "Self-Assembling Peptides as Cell-Interactive Scaffolds," *Advanced Functional Materials*, 22[3] (2011) 456-468.

57. A. Lakshmanan, S. Zhang, C.A.E. Hauser, "Short Self-Assembling Peptides as Building Blocks for Modern Nanodevices," *Trends in Biotechnology*, 30[3] (2011) 155-165.
58. Y. Loo, S. Zhang and C.A.E. Hauser, "From Short Peptides to Nanofibers to Macromolecular Assemblies in Biomedicine," *Biotechnology Advances*, 30[3] (2011) 593-603.
59. K. Oglęcka, F. Zhuang, and C.A.E. Hauser, "Self-Assembling Peptide Surfactants A₆K and A₆D Adopt α -Helical Structures Useful for Membrane Protein Stabilization," *Membranes*, 1 (2011) 314-326.
60. A. Lakshmanan and C.A.E. Hauser, "Ultrasmall Peptides Self-Assemble into Diverse Nanostructures: Morphological Evaluation and Potential Implications," *International Journal of Molecular Sciences*, 12 (2011) 5736-5746.
61. N. Wiradharma, M. Khan, L.-K. Yong, C.A.E. Hauser, S. V. Seow, S. Zhang, Y.-Y. Yang, "The Effect of Thiol Functional Group Incorporation into Cationic Helical Peptides on Antimicrobial Activities and Spectra," *Biomaterials*, 32 (2011) 9100-9108.
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66. C. Hauser, S. Zhang, "Designer Self-assembling Peptide Nanofiber Biological Materials," *Chem. Soc. Rev.* 39 (2010) 2780-2790.
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