



PERSONAL DETAILS Prof. 'in Dr. Andrea Hoffmann

Address: Medizinische Hochschule Hannover (MHH)
Clinic of Orthopaedic Surgery
Graded Implants and Regenerative Strategies in the Skeletal System OE 8893
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Nationality: German

Web sites: <https://gradierte-implantate.de/en/>;
<https://nife-hannover.de/en/>;
<https://www.academia-net.org/profil/prof-dr-andrea-hoffmann/1394436>

EDUCATION

2007 **Habilitation** (postdoctoral lecturing qualification) and **Venia legendi in Regenerative Medicine**, Hannover Medical School (MHH)
'Mechanisms of mesenchymal cell differentiation under normal and inflammatory conditions: Novel therapeutic perspectives for diseases of the skeletal system'

1992 **Doctoral degree** (Dr. rer. nat.), University of Hannover: very good
'Isolation and chemical characterization of β -trace protein from human cerebrospinal fluid: identification as prostaglandin D synthase'

1989 **Diplom** (graduate degree) in **Biochemistry**, University of Hannover: very good
'Group separation of proteins for diagnosis of tubular nephropathies'

1983 **Abitur** (university entrance qualification), grade: 1.0

CURRENT POSITIONS

since 2016 **University professor** 'Graded Implants and Regenerative Strategies in the Skeletal System' financed by German Research Foundation (DFG) within Research Unit ('**Research Unit professorship**' 2016 - 2019: comparable to 'Heisenberg Professorship', but with added responsibility for entire research unit), MHH

since 2015 **Spokeswoman, DFG Research Unit FOR 2180** (collaborative research programme) 'Graded Implants for Tendon-Bone-Junctions' with 7.7 mio € total funds

2015 - 2021 **Member of NIFE** (Lower Saxony Centre for Biomedical Engineering, Implant Research and Development) **Deputy Board**, joint scientific institution of MHH, Leibniz University Hannover (LUH), University of Veterinary Medicine Hannover

since 2015 **Adjunct professor** (*außerplanmäßige Professorin*), MHH

PREVIOUS POSITIONS

2014 - 2016 **Senior scientist, group leader**, Department of Orthopaedic Surgery, MHH

2009 - 2014 **University professor** 'Biology of the Locomotor System' (endowed chair, not tenured), Department of Trauma Surgery, MHH

1993 - 2009 **Postdoctoral and senior scientist positions**, Helmholtz Centre for Infection Research, Braunschweig, and MHH

FELLOWSHIPS AND AWARDS

2019 **Scientific Advisory Board Member** "Rostock Centre for Interdisciplinary Implant Research ROCINI"

2018 **Nomination for the Ernst Jung Prize for Medicine 2019** by the presidents of MHH, LUH and Technical University of Braunschweig (TU-BS)



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- since 2016 **Member of Academia Net** (database for excellent female scientists nominated by organizations of repute including DFG and the ERC:
www.academianet.de/aufnahmekriterien/)
- 11/06 **Visiting researcher at Stem Cell Center Lund, Sweden** with Dr. Ulrike Nuber
- 10/99 - 11/99 **Visiting researcher at K. U. Leuven, Belgium** with Prof. Dr. D. Huylebroeck
- 1998 - 1999 **Research Fellowship** awarded by German Research Foundation HO 2058/1-1
- 1989 - 1991 **Fellowship for Ph.D. studies** ‘Graduate Advancement Act (GFG) Lower Saxony’
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SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

- since 2010 Supervisor or co-supervisor and reviewer of more than 50 dissertations, master’s and bachelor’s theses, 2 postdoctoral lecturing qualifications: MHH, LUH, TU-BS
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TEACHING

- since 2018 ‘Development of Cell Therapeutics’ (lecture series with 15 lecturers, organized by me, for M. Sc. in Biochemistry), MHH, 2 hours weekly, summer semester
- since 2016 ‘Introduction to Animal Cell Culture Techniques’: two weeks-lab course for B. Sc. in Life Science, LUH, equivalent to 5 hours weekly, summer semester
- since 2014 Guest lectures for engineering students, faculty of mechanical engineering, LUH
- since 2009 Lectures for PhD students, PhD programs ‘Regenerative Sciences’ and ‘Hearing’, MHH
- since 2007 ‘Adult Stem Cells in Regenerative Medicine’ (lecture for M. Sc. and B. Sc. in Biochemistry, B. Sc. in Biology, B. Sc. in Life Science), MHH, 2 hours weekly, summer + winter semester
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ORGANISATION OF SCIENTIFIC MEETINGS

- 2019 Scientific symposium at the Labvolution fair with program planning, invitation of speakers, own presentation, lab visits in NIFE, 40 participants:
www.labvolution.de/de/rahmenprogramm/biomedizintechnik-und-implantatentwicklung/
- 2019 Member of program committee for meeting of European Society for Artificial Organs (ESAO), <https://www.esao2019.org/program/#committee>
- 2018 Member of program committee for meeting of ‘Deutsche Gesellschaft für Biomaterialien’, <https://www.dgbm-kongress.de/index.php?id=15738>
- since 2015 Organisation of workshops on biomaterials within NIFE
- since 2015 Organization of annual two-day workshops for DFG-FOR 2180 with visiting national and international experts on ‘biomedical implants’, 30 participants each
- 2010 Co-organizer of a meeting with the European Commission in Brussels: ‘Smart Materials for Biofunctionalized Implants and Engineered Tissue’, 50 participants
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INSTITUTIONAL RESPONSIBILITIES

- since 2019 Member of PhD (Dr. rer. nat.) commission, MHH
- since 2019 Member of commission for gender equality, MHH
- constantly Member of selection committees for professorships and adjunct professorships
- 2019 Organization of an important activity during on site-visit of Hannover’s application for Excellence University: “Science in NIFE and the Medical Park Area: In Synergy for Patients”



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- since 2016 NIFE work safety responsibility
since 2015 Initiator and coordinator of REsearch NETWork-Mesenchymal Stromal Cells (RENEW-MSC): internal seminars, joint research activities
since 2009 Project leader according to §§ 15 and 17 GenTSV, in charge of S2 area, including this responsibility for several PI-colleagues
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REVIEWING ACTIVITIES

- since 2013 for DFG (German Research Foundation), regularly (different funding tracks)
since 2009 for the Alexander von Humboldt Foundation, regularly (different funding tracks)
2013, 2014 for University of Missouri, USA: Research Proposal
constantly for manuscripts submitted to scientific journals including EMBO Journal, Nephron, Journal of Neurochemistry, Pharmacology, Stem Cells, Stem Cells and Development, Advanced Drug Delivery Reviews, Cytotherapy (incomplete list)
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MENTORING OF YOUNG SCIENTISTS

- 2021 - 2022 Mentor for 'Ina Pichlmayr Mentoring', MHH (career training for female scientists)
2015 - 2021 Research Training Group within DFG Research Unit 2180 (20 persons in two funding periods)
2016, 2017 Mentor for 'KarriereWegeMentoring', Universities of Rostock and Greifswald (career training for female scientists)
since 2015 Annual Lectures on acquisition of third-party funding, as part of internal mentoring programs at MHH for young female scientists
2011 - 2013 German Academic Scholarship Foundation, scholarship for postgraduate studies to a doctoral student in my group
2011 Intramural MHH funding (HiLF) to a postdoctoral researcher in my group
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Already at the age of 4 years, I enjoyed to put bricks together to create buildings. Today I am using my creativity to find new solutions for patients, assembling bricks of knowledge for future research and therapies.

And when I do find some time, I do some oil painting like this one:

