

Curriculum Vitae

Personal Information

Name: Dr. rer. nat. Meltem Avci-Adali, née Adali
Dates of birth: 19. September 1979, Tuebingen
Marital status: Married, 1 Child (d.o.b. 5.4.2012)
Nationality: German
Place of residence: Neue Str. 45
72138 Kirchentellinsfurt, Germany
Mobile Phone: 0049 157 / 36 83 14 49
E-mail: meltem.avci-adali@klinikum.uni-tuebingen.de

School Education

09/1985 - 06/1993 Primary and Secondary School, Turkey
09/1993 - 07/1996 Secondary School, Kirchentellinsfurt, Germany
09/1996 - 07/1999 Grammar School (Ernährungswissenschaftliches Gymnasium),
Reutlingen, Germany
(General qualification for university entrance)

University Education

10/1999 - 03/2004 Pharmaceutical Technology (Pharmatechnik),
HS Albstadt-Sigmaringen
Degree: **Dipl.-Ing. (FH) Pharmatechnik**
09/2003 - 03/2004 Diploma thesis, Cardinal Health Germany GmbH, Schorndorf
Title: „*Galenical development of pellets by extrusion technique*“
10/2004 - 08/2006 Master's programme in Biomedical Engineering,
HS Albstadt-Sigmaringen
Degree: **Master of Science (M.Sc.)**
11/2005 - 08/2006 Master thesis at the NMI (Natural and Medical Sciences
Institute at the University of Tuebingen), Reutlingen,
Title: "*Bioactivity and bioavailability of BMP-2 in gelatine
scaffolds for cartilage regeneration*"
10/2006 – 01/2010 PhD thesis at the Department of Thoracic, Cardiac, and
Vascular Surgery, University Hospital Tuebingen, **(Dr. rer. nat.)**
Title: "*Biofunctionalization of implant surfaces for induction of
stem cell homing - Optimization of the SELEX technology for
generation of DNA aptamers as capture molecules*"

Internships

09/2000 - 03/2001 DHU-Arzneimittel GmbH & Co. KG, Karlsruhe
In the field of quality assurance
02/2002 - 09/2002 ABBOTT GmbH & Co. KG, Ludwigshafen

02/2005 - 03/2005	In the field of formulations and technology research Natural and Medical Sciences Institute (NMI), Reutlingen In the field of cell biology and biochemistry Title: „Determination of the enzyme kinetic of MMPs by peptide fragment digestion“ (Analysis method: LC-QTOF-MS)
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Professional Career

01/2010 – 03/2011	Postdoc at the department of Congenital and Pediatric Cardiac Surgery, University Children´s Hospital Tuebingen
03/2011 – today	Margarete von Wrangell-Fellowship, Habilitation (post-doctoral lecturing qualification) at the Department of Thoracic, Cardiac, and Vascular Surgery, University Hospital Tuebingen
03/2012-10/2012	Parental leave

Awards and grants

04/2007	Award for outstanding achievements in the Master´s programme Biomedical Engineering, Fürst-Carl-Stiftung Sigmaringen
03/2011	Margarete von Wrangell-Habilitationsstipendium des Ministeriums für Wissenschaft, Forschung und Kunst Baden-Württemberg

Language Skills

Fluently	German, Turkish, English
Basic knowledge	French

Tuebingen, 14th March 2014

Poster and Oral Presentations

Poster Presentations

M. Avci-Adali, A. Paul, M. Metzger, N. Wilhelm, N. Perle, G. Ziemer, H. P. Wendel. Upgrading the Cell-SELEX Technology. 6th Cambridge Symposium on Nucleic Acids Chemistry and Biology in Cambridge, UK (4.-7. September 2011)

M. Avci-Adali, H. Stoll, B. Hagmeyer, J. Schütte, M. Stelzle, N. Perle, C. Schlensak, H. P. Wendel. Biofunctionalization of blood-contacting materials for in vivo endothelialization. XXXVIII Congress of the European Society for Artificial Organs (ESAO 2011) and IV Biennial Congress of the International Federation on Artificial Organs (IFAO 2011) in Porto, Portugal (9.-12. October 2011)

M. Avci-Adali, H. Stoll, J. Kobba, B. Neumann, M. Lescan, N. Perle, N. Wilhelm, H. Wiedmaier, C. Schlensak, H. P. Wendel. An in vitro rotation model composed of single-use sterile disposables for investigation of endothelialization of different vascular prostheses. Strategies in Tissue Engineering 3rd International Conference in Würzburg, Germany (23.-25. May 2012)

M. Avci-Adali, A. Paul, M. Metzger, N. Perle, N. Wilhelm., H. Stoll, C. Schlensak, H. P. Wendel. Obstacles of cell-SELEX: Problems and Pitfalls. Aptamers in Medicine and Perspectives in Naples, Italy (4.-5. October 2013)

M. Avci-Adali, H. Steinle, T. Michel, C. Schlensak, H. P. Wendel. Potential of aptamers to activate immune system in human blood. Aptamers in Medicine and Perspectives in Naples, Italy (4.-5. October 2013)

Oral Presentations

Verlauf der Genexpression von Endothel- und Stammzellmarkern in porcinen EPCs. Jahrestagung DGBM 2009 in Tübingen, Germany (08.10.2009)

Clinical perspectives of aptamers: the in vivo tissue engineering. Aptamers in Medicine and Perspectives in Naples, Italy (05.10.2013)

Biofunctionalization of blood contacting surfaces with homing factor mimetic molecules for induction of in vivo stem cell seeding. Cell & Gene Therapy in Orlando, USA (23.10.2013)

Planned:

Use of stem cell specific aptamers for in vivo tissue engineering. 1st Oxford Symposium on Aptamers. Oxford, UK (24.-25.03.2014)

Teachings

- Master's programme in Biomedical Technologies at the University of Tuebingen and Stuttgart, Lecture in "Quantitative PCR" and "Cell targeting"
- Bachelor's programme in Medical Technology at the University of Tuebingen and Stuttgart, Lecture in "Characterization of cells using quantitative PCR".
- "Immunology" at the school for Medical Technical Assistants in Tuebingen