

Prof. Dr. Hellmut Augustin

Aventis-Foundation endowed Chair for Vascular Biology and Tumor Angiogenesis,
Mannheim and DKFZ



05.02.1959

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SCIENTIFIC VITA

- 1978-1984 Studies of Veterinary Medicine, School of Veterinary Medicine, Hannover, Germany
- 1984 Civil service examination (*Staatsexamen*)
- 1984 Licence to practice (*Approbation*)
- 1985-1987 Postgraduate training in Pathology, School of Veterinary Medicine, Hannover, Germany
- 1987 Doctoral degree Dr. med. vet., School of Veterinary Medicine, Hannover, Germany
- 1988-1989 Postdoctoral Associate, Cancer Biology Laboratories, Cornell Univ., Ithaca, NY, USA
- 1989-1992 Graduate Student, Cancer Biology Laboratories, Cornell Univ., Ithaca, NY, USA
- 1992 PhD (Cornell University) in Experimental Pathology, subspecialty Cancer Cell Biology
- 1993-2001 Research Assistant Professor (C1, C2), Head of the Cell Biology Laboratory, Clinic for Gynecology and Obstetrics, Univ. of Göttingen Medical School, Göttingen, Germany
- 1997 *Habilitation* (*Venia legendi*) in Molecular Cell Biology, Univ. Göttingen
- 2001-2006 Chairman, Dept. of Vascular Biology & Angiogenesis Research, Tumor Biology Center, Freiburg, Germany
- since 5/2006 Aventis Foundation-endowed Chair for Vascular Biology and Tumor Angiogenesis, Medical Faculty Mannheim, University of Heidelberg, and German Cancer Research Center Heidelberg

AWARDS

Erich Aehnelt Memorial Award, Hannover, 1987; Binder Innovation Prize of the German Society for Cell Biology, 2003

FIELDS OF INTEREST

Tumor Biology (tumor progression research, tumor host interactions)

Vascular Biology (molecular and functional analysis of vessel wall functions as it relates to the pathogenesis of major human diseases [tumor angiogenesis, inflammation, atherosclerosis, stroke, coagulation])

SELECTED PUBLICATIONS (SINCE 2000)

Fiedler U, Reiss Y, Scharpfenecker M, Grunow V, Koidl S, Thurston G, Gale NW, Witzenzath M, Rosseau S, Suttrop N, Sobke A, Herrmann M, Preissner K, Vajkoczy P, Augustin HG (2006). Angiopoietin-2 sensitizes endothelial cells to TNF α and plays a crucial role in the induction of inflammation. **Nat Med** 12, 235-239

Krneta J, Kroll J, Alves F, Prahst C, Sananbenesi F, Dullin C, Kimmina S, Phillips DJ, Augustin HG (2006). Dissociation of angiogenesis and tumorigenesis in activin and follistatin expressing tumors. **Cancer Res** 66, 5685-5695

Fiedler U, Christian S, Koidl S, Kerjaschki D, Emmett MS, Bates DO, Christofori G, Augustin HG (2006). The sialomucin CD34 is a marker of tumor-associated lymphatic endothelial cells in human tumors. **Am J Pathol** 168, 1045-1053

Müller SM, Terszowski G, Blum C, Haller C, Anquez V, Kuschert S, Carmeliet P, Augustin HG, Rodewald HR (2005). Gene targeting of VEGF-A in thymus epithelium disrupts thymus blood vessel architecture. **Proc Natl Acad Sci USA** 102, 10597-10592

Saharinen P, Kerkela K, Ekman N, Marron M, Brindle N, Lee GM, Augustin H, Koh GY, Alitalo K (2005). Multiple angiopoietin recombinant proteins activate the Tie1 receptor tyrosine kinase and promote its interaction with Tie2. **J Cell Biol** 169, 239-243

Scharpfenecker M, Fiedler U, Reiss Y, Augustin HG (2005). The Tie-2 ligand Angiopoietin-2 destabilizes quiescent endothelium through an internal autocrine loop mechanism. **J Cell Sci** 118, 771-780

Fiedler U, Scharpfenecker M, Koidl S, Hegen A, Grunow V, Schmidt JM, Kriz W, Thurston G, Augustin HG (2004). The Tie-2 ligand Angiopoietin-2 is stored in and rapidly released upon stimulation from endothelial cell Weibel-Palade bodies. **Blood** 103, 4150-4156

Fuller T, Korff T, Kilian A, Dandekar G, Augustin HG (2003). Forward EphB4 signaling in endothelial cells controls cellular repulsion and segregation from ephrinB2 positive cells. **J Cell Sci** 116, 2461-2470

Fiedler U, Krissl T, Koidl S, Weiss C, Koblizek T, Deutsch U, Martigny-Baron G, Marme D, Augustin HG (2003). Angiopoietin-1 and angiopoietin-2 share the same binding domains in the Tie-2 receptor involving the first Ig-like loop and the epidermal growth factor-like repeats. **J Biol Chem** 278, 1721-1727

Eberhard A, Kahlert S, Goede V, Hemmerlein B, Plate KH, Augustin HG (2000). Heterogeneity of angiogenesis and blood vessel maturation in human tumors: implications for antiangiogenic tumor therapies. **Cancer Res** 60, 1388-1393