Pediatric Surgery - Experimental Research Group

Research topic
Gene regulation after genotoxic stress in normal and tumor tissue

Group leader(s):
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Education:

1981	Abitur, Juri Gagarin Gymnasium, Radebeul
1988	Diploma in Medicine, grade 1 ("sehr gut"), Dresden University
1991	Medical License (Approbation als Arzt)
1991	Dr. med., University of Dresden, "summa cum laude"
2000	Board certificate as pathologist (Facharzt für Pathologie)
2002	Board certificate as molecular pathologist (Subspezialisierung für Molekularpathologie)
2008	Habilitation, University of Dresden

Training:

1991-2000	Resident in Pathology (Postdoctoral Fellow), Department of Pathology, Dresden University of Technology, Medical School Carl-Gustav Carus"
1992-1993	Postdoctoral Fellow (Research Visit), University of Heidelberg, Department of Medicine (Lab of Prof. Nawroth), fellowship of Arthur-Weber Foundation
1999	Research visit at the Salk Insitute, San Diego, California, Labs of Prof. Beverly Emerson and Prof. Catherine Jones, financed by the Faculty of Medicine, Dresden University of Technology
1999-2000	Research visit at the UCSD, San Diego, California, Laboratory of Gene Regulation and Signal Transduction, Prof. Michael Karin, financed in part by Bundesministerium für Forschung und Technik (BMFT), Germany
2000-2005	Consultant, Department of Pathology, Dresden University
2004-present	Consultant Pathologist, University Cancer Center, Dresden University
2005-2008	Postdoctoral Fellow, OncoRay Research Center, Dresden University
2008-present	Laboratory Head, Research Lab, Department of Pediatric Surgery, Dresden University

Clinical Experience:
Experience in surgical pathology and molecular pathology

Group members
Technician: Ivonne Kemnitz
MD students: Susann Müller, Charlotte Müller, Ramona Rosenzweig

Publications :	41 Publications in Peer-Reviewed Journals
Funding:	BMBF
Awards:	Hans-Langendorff Poster Award, German Society of Radiooncology
Journal reviews:	J Histochem Cytochem, Int J Radiat Biol, Radiation Res, etc.
Grant reviews:	Deutsche Krebshilfe
Societies:	American Association for Cancer Research (AACR) International Academy of Pathology (IAP)

Internal collaborators
Nasreddin Abolmaali, Nils Cordes, Leoni Kunz-Schughart, OncoRay
Gustavo Baretton, Institute of Pathology
Michael Baumann, Department of Radiation Therapy and Radiation Oncology
Denis Corbeil, Tissue Engineering Group, Biotec
Susanne Füssel, Department of Urology
Michael Kasper, Department of Anatomy
Alexander Kiani, Department of Medicine I
Jörg Kotzerke, Department of Nuclear Medicine
Angela Rösen-Wolff, Department of Pediatrics
A. Francis Stewart, Department of Genomics

External collaborators with affiliation:
Angelika Bierhaus, Department of Medicine I, University of Heidelberg
Ronald Naumann, MPI-CBG, Dresden
Knut Schäkel, Department of Dermatology, University of Heidelberg

Participation in collaborative research projects:
Clinical research association of the Medical Faculty of the Dresden University: Project Fibrogenesis, funded by BMBF.

Selected Publications 2004 - 2009

1. K. Liepe, H. H. Geidel, R. Bergmann, M. Haase, R. Runge and J. Kotzerke, Autoradiographic studies of rhenium-188-hydroxyethylidine diphosphonate in normal skeleton and osteoblastic bone metastases in a rat model of metastatic prostate cancer. *Nucl Med Commun* 30, 693-699 (2009).
2. M. Haase, C. C. Gmach, I. Eke, S. Hehlgans, G. B. Baretton and N. Cordes, Expression of integrin-linked kinase is increased in differentiated cells. *J Histochem Cytochem* 56, 819-829 (2008).
3. M. G. Haase, A. Klawitter, A. Bierhaus, K. K. Yokoyama, M. Kasper, P. Geyer, M. Baumann and G. B. Baretton, Inactivation of ap1 proteins by a nuclear serine protease precedes the onset of radiation-induced fibrosing alveolitis. *Radiat Res* 169, 531-542 (2008).
4. M. G. Haase, A. Klawitter, P. Geyer and G. B. Baretton, Expression of the immunomodulator il-10 in type i pneumocytes of the rat: Alterations of il-10

expression in radiation-induced lung damage. *J Histochem Cytochem* 55, 1167-1172 (2007).
5. S. Hehlgans, M. Haase and N. Cordes, Signalling via integrins: Implications for cell survival and anticancer strategies. *Biochim Biophys Acta* 1775, 163-180 (2007).
6. K. Schakel, M. von Kietzell, A. Hansel, A. Ebling, L. Schulze, M. Haase, C. Semmler, M. Sarfati, A. N. Barclay, G. J. Randolph, M. Meurer and E. P. Rieber, Human 6-sulfo lacnac-expressing dendritic cells are principal producers of early interleukin-12 and are controlled by erythrocytes. *Immunity* 24, 767-777 (2006).
7. D. E. Aust, M. Haase, L. Dobryden, A. Markwarth, U. Lohrs, C. Wittekind, G. B. Baretton and A. Tannapfel, Mutations of the braf gene in ulcerative colitis-related colorectal carcinoma. *Int J Cancer* 115, 673-677 (2005).
8. M. Weber, J. J. Davies, D. Wittig, E. J. Oakeley, M. Haase, W. L. Lam and D. Schubeler, Chromosome-wide and promoter-specific analyses identify sites of differential DNA methylation in normal and transformed human cells. *Nat Genet* 37, 853-862 (2005).
9. M. G. Haase, A. Klawitter and G. B. Baretton, Ikappabgamma is expressed in mast cells. *Virchows Arch* 445, 515-520 (2004).
10. A. Kiani, I. Habermann, M. Haase, S. Feldmann, S. Boxberger, M. A. Sanchez-Fernandez, C. Thiede, M. Bornhauser and G. Ehninger, Expression and regulation of nfat (nuclear factors of activated t cells) in human cd34+ cells: Down-regulation upon myeloid differentiation. *J Leukoc Biol* 76, 1057-1065 (2004).