

## Research profile for applicants

Name of DKFZ research division/group:	<b><i>Vascular Oncology and Metastasis (A190)</i></b>
Contact person:	<b><i>Prof. Dr. Hellmut Augustin (+49-6221-421500; h.augustin@dkfz.de)</i></b>
Group homepage: <i>Visit this website for further information on current research and recent publications.</i>	<a href="http://www.dkfz.de/en/angiogenese">www.dkfz.de/en/angiogenese</a>

### RESEARCH PROFILE AND PROJECT TOPICS

Working at the interface of vascular and tumor biology, our laboratory studies (i) the molecular mechanisms of physiological blood vessel formation, assembly, and maturation focusing on angiogenesis regulating receptor tyrosine kinases, most notably on the Angiopoietin-Tie ligand-receptor system as well as on other selected novel candidate molecules, (ii) the mechanisms of organotypic vascular differentiation and angiocrine signaling studying the lung and liver vasculature as prototypic vascular beds, (iii) the molecular mechanisms of tumor progression focusing on tumor-vessel interactions during metastasis, and (iv) trans-lational tumor angiogenesis experiments aimed at defining the therapeutic window of stromal targeted therapies. Our most recent work is aimed at exploring novel areas in the emerging field of angioscience research. As such exciting postdoctoral opportunities are available in the following topics:

- vascular control mechanisms of organ function
- establishment and maintenance of adult vascular quiescence and homeostasis
- vascular ageing and its impact on local and systemic signaling
- circadian vascular biology
- vascular control of metastasis
- the vasculature as biomarker readout of human health and healthy ageing

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