

PhD student

Tumor microenvironment (TME) is a complex and dynamic milieu that surround tumor cells. Cells and biomarkers that make up the TME interact with each other and with tumor cells, and as consequence affect tumor growth, invasion, and sensitivity to death factors. One of the major clinical needs is the elucidation of factors/ determinants driving the plasticity of TME. Our studies aim to understand the critical pathways involved in the regulation of TME. We specifically focus on the composition and quantities of inflammatory substances released from tumor and myeloid cells in TME as well as on tumor/myeloid cell interactions and their link to lung tumor survival, progression and metastatic spread.

Our project is financed by the German Center for Lung Research (Deutsches Zentrum für Lungenforschung, DZL), an association of leading university and non-university institutions dedicated to pulmonary research. This project is performed in a close collaboration with Translational Lung Research Center Heidelberg (TLRC). Our goal is to translate basic scientific knowledge into new clinical approaches improving patient care.

Main materials used in the studies are primary human cell cultures and patient material (plasma/serum, and tissue), and methods include RNA-seq, qPCR, Western blots, flow cytometry, immunohistochemistry and protein chemistry assays.

Your tasks

- Design, performance and analysis of experiments
- Writing publications
- Preparation of presentations and PhD Thesis

Your requirements

We are looking for an enthusiastic, highly motivated PhD student with a strong interest in the field of Cancer. Successful candidates are expected to have a Master of Science or equivalent degree in life sciences and possess excellent English skills. Practical experience with primary cell cultures and molecular biology is of importance. Experience with different mouse models will be advantageous but is not a prerequisite.

We offer

- An international and friendly team
- A structured PhD program
- A stipend contract

For further information, please contact Prof. Dr. Sabina Janciauskiene:

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