



FRIEDRICH-ALEXANDER
UNIVERSITÄT
ERLANGEN-NÜRNBERG

NATURWISSENSCHAFTLICHE
FAKULTÄT

Our Emmy Noether research group working on cellular dynamics at the department of biology at the **FAU Erlangen** offers a

PhD position in cell division and bioimaging

starting at the next possible date.

Das Aufgabengebiet umfasst u. a.:

Our group is interested in the molecular mechanisms that control cell division in animal cells. During the last step of cell division, a process called cytokinesis, the mother cell splits into two daughter cells. When the chromosomes segregate in anaphase a contractile actin-myosin ring assembles underneath the plasma membrane. Contractile ring formation has to be spatially and temporally coordinated with chromosome segregation to ensure that the genomic content is properly distributed. Cytokinesis failure results in tetraploidy and supernumerary centrosomes causing multipolar spindles and oncogenic transformations. The aim of the PhD project is to delineate the molecular pathways that control cytokinesis in time and space in animal cells. In our research group we combine the advantages of both the nematode *C. elegans* and human tissue culture cells. To study the molecular mechanisms we use state-of-the art quantitative live-cell microscopy, biochemistry, molecular biology, genetics and screening approaches. Our research group not only offers high-end instrumentation and laboratory equipment but also a highly interactive and international research environment.

Notwendige Qualifikation:

We are searching for highly motivated applicants with a strong interest in fundamental questions of cell biology. Applicants should have excellent knowledge of cell and molecular biology and hold a master degree in life science.

Bemerkungen:

Please send your application (CV, letter of motivation, contact information of two referees, certificates) to Prof. Dr. Esther Zanin, Professur für Experimentelle Molekulare Zelldynamik, Raum 02.383, Staudtstraße 5, 91058 Erlangen oder **zaninlab@gmx.de**. For more information: <https://www.zelldynamik.nat.fau.de>.

Stellenbeschreibung:

Entgelt-/Bes.Gr.: **TVL E13 (50%)**

Die Stelle ist befristet. Befristungsgrund: befr. Forschungsvorhaben.

Voraussichtlicher Einstellungstermin: nächst möglichen Termin.

Es handelt sich um eine Vollzeitstelle

