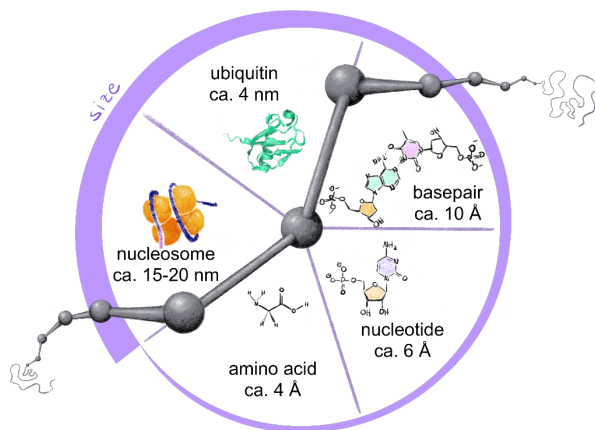


30 PhD and Postdoc positions in biophysics, molecular biology, cell biology, macromolecular chemistry, physical chemistry, polymer analysis, polymer science, multi-scale modelling, polymer theory, bioinformatics and machine learning

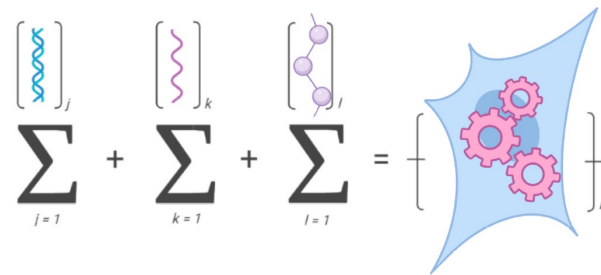


CRC 1551 – Polymer Concepts in Cellular Function

Topics range from DNA–protein assemblies in chromatin topology, regulation of transcription and RNA–protein complexes in splicing, translation regulation and small-RNA pathways to biomacromolecular phase separation as well as polymer science from a synthetic, theory and modeling perspective. We will also study the multifaceted functions that proteins can perform as single molecules or as nanoscopic and large ensembles, and how the perturbation of polymeric interactions can lead to cellular malfunctions and disease.



The network unites molecular biologists, cell biologists, biophysicists and clinicians with expertise in cellular disease models as well as specialists in macromolecular chemistry, physical chemistry and polymer analysis with researchers that have theoretical expertise in multi-scale modelling, polymer theory, bioinformatics, data science and machine learning.



PhD or Postdoc candidates with background and interest in any of these disciplines are encouraged to **apply by visiting www.crc1551.com** and submitting their application **only** via the online submission tool linked on this webpage. **Submission deadline is February 15th 2023.**

Participating institutions

Max Planck Institute for Polymer Research
<https://www.mpip-mainz.mpg.de/en/home>



Johannes Gutenberg University Mainz
<https://www.uni-mainz.de/eng/index.php>



Institute of Molecular Biology
<https://www.imb.de/>



Max Planck Institute for Biophysics
<https://www.biophys.mpg.de/en>



University of Stuttgart
<https://www.uni-stuttgart.de/en/>



University Medical Center
<https://www.unimedizin-mainz.de/index.html>



All students will receive training and support in the framework of the **Integrated Research Training Group**
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