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# **Models of Polymer Physics for Biological System**

Guest Editors:

## Dr. Andrea Maria Chiariello

Dipartimento di Fisica "E. Pancini", Università degli Studi di Napoli Federico II, and INFN Napoli, Complesso Universitario di Monte Sant'Angelo, 80126 Naples, Italy

## Dr. Simona Bianco

Berlin Institute for Medical Systems Biology, Max-Delbrück Centre for Molecular Medicine, Berlin, Germany

Deadline for manuscript submissions:

closed (5 January 2023)

# **Message from the Guest Editors**

Dear Colleagues,

Polymer physics is a powerful tool for investigating several biological processes occurring in the cell. Indeed, models from polymer physics have a broad range of applications and have been successfully employed to study, for example, the three-dimensional structure of chromosomes at multiple scales, the phase-separation of protein aggregates, single-cell chromatin organization, DNA-protein interaction mechanisms and gene regulation.

The issue will cover a broad range of experimental, computational and theoretical studies based on polymer physics aiming to describe those aspects relevant to the cell. The research topics will also include molecular dynamics simulations, predictive methods, data analysis, meso-scale and coarse-grained polymer models, equilibrium and off-equilibrium processes and further applications. This issue will provide progress in and state-of-art applications of polymer physics to tackle specific and general questions arising in cell biology.

Dr. Andrea Maria Chiariello Dr. Simona Bianco *Guest Editors* 













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## **Editor-in-Chief**

#### Prof. Dr. Alexander Böker

Lehrstuhl für Polymermaterialien und Polymertechnologie, University of Potsdam, 14476 Potsdam-Golm, Germany

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