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Calculating Cancer Causes

Monday, November 28, 2022 3:40 PM (15 minutes)

Can we predict if (and when) a patient develops cancer? What are risk factors? Is it possible to tailor cancer treatment to individual patients? To answer these questions, we need to understand how the process of cancer development works on a cellular level. As part of the interdisciplinary field of systems biology, we try to answer these questions by mechanistically modelling cell signal transduction by the means of ordinary differential equations. To fit models with many parameters to biological data, high computational power is needed.

In this talk we introduce our work and discuss the necessity of HPC in cancer research.

Presenter: BANG, S.

Session Classification: Session IV