Prof. Dr. Thomas Hillen
University of Alberta
Department of Mathematical and Statistical Sciences
Edmonton, AB, Canada

Mathematical Modelling of Cancer

Hanahan and Weinberg recently defined what is known as the hallmarks of cancer. I will use these hallmarks to motivate the understanding of cancer as an ecosystem. I will use this perspective to present mathematical modelling of specific cancers, including glioma spread, optimization of radiation treatment, and the relevance of cancer stem cells.