

Jaromír Gumulec, Ph.D.

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Jaromír graduated in 2012 in general medicine and followed with PhD in the Michal Masařík lab in Faculty of Medicine, Masaryk university. He focused on a role of zinc ions in the prostate cancer cells. Specifically, he studied how this metal interferes with redox state of cells and how it affects aggressiveness of cancer cells and prognosis of patients. For his thesis he received Minister of Education Award in 2016. During his postdoc he started to study mechanobiology of cancer cells using biophysical and microscopic techniques. He stayed in Max Planck Institute for the Science of Light in Biological Optomechanics lab (Jochen Guck), collaborates with Advanced microscopy facility (Vienna Biocenter) and benefits from cooperation between bioinformatics and biology. Now, building on the previous research on prostate cancer metabolism, he focuses on questions regarding interplay between metabolic reprogramming and factors driving alterations in cell mechanics in prostate cancer cells.