

Šárka Růžičková

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Biotechnology Division

Laboratory of Diagnostics of Autoimmune Diseases



Šárka Růžičková, RNDr / Head of Laboratory

Irena Veselá / Technician

Alena Halouzková / Technician

Martina Bajzиковá / Diploma Student

Lucie Nováková / Diploma Student

Research topics

The research of this newly established laboratory is focused on: (1) humoral and genetic aspects of autoimmune diseases such as rheumatoid arthritis, systemic lupus erythematoses and myositis; (2) identification of target molecules for therapy of these diseases; (3) development and design of new diagnostics for autoimmune diseases. Single-cell RT-PCR is used as a unique technique in our research.

Current grant support

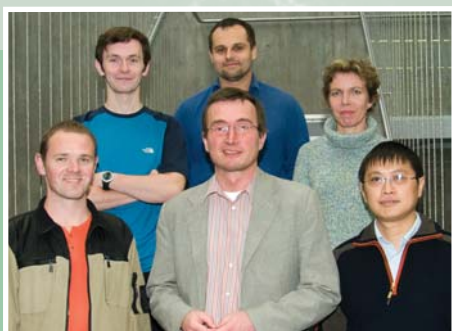
GA CR (310/06/0477), IGA Ministry of Health (NR 9106-3)

Peter Šebo

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Biotechnology Division

Laboratory of Recombinant Ligand Engineering



Peter Šebo, PhD / Head of Laboratory

Jingjing Li, PhD / Postdoc

Milan Kuchař, PhD / Postdoc

Hana Petroková, PhD / Postdoc

Petr Jeřábek, MSc / PhD Student

Research topics

The research of this newly established laboratory will be focused on structural biology and protein engineering of novel scaffolds of small non-immunoglobulin type recombinant binding proteins, aiming to deepen our understanding of structure-function relationships that underlie high-affinity protein-protein interactions. The acquired knowledge and generated novel binding protein tools are expected to be useful in various research and diagnostic applications, including design of microfluidic nanoimmunosensors for detection of cytokines.

Current grant support

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