

# CONFERENCE: NOVEL PERSPECTIVE OF THROMBOLYSIS: TRANSLATING PRECLINICAL RESEARCH INTO CLINICAL EXCELLENCE



(13<sup>TH</sup> CONFERENCE DRUG DELIVERY SYSTEMS)



**DATE:** June 12–14 2024

**VENUE:** University Centre Telč, Telč, Czech Republic

**ORGANIZERS:** Prof. Robert Mikulík, Prof. Jaroslav Turánek, Dr. Tomáš Etrych

**CONTACT:** Dr. Kateřina Sukačová, katerina.sukacova@fnusa.cz

## CONFERENCE PROGRAM

**Wednesday June 12** Pre-conference meeting for invited guests only (**Brno**)

**Thursday June 13** (**University Centre Telč**)

<b>9:00–10:00</b>	<b>Registration</b>
<b>10:00–10:10</b>	<b>Opening of the conference</b> Robert Mikulík (Director of Cerebrovascular Research Program)

### Session 1: Molecular mechanisms and protein engineering

<b>10:10–11:10</b> (Present. + Discus.) (40min + 20min)	<b>CCR2 knockout reduces arterial thrombus volume and facilitates tPA-mediated thrombolysis</b> Dong-Eog Kim (Professor of Neurology, Dongguk University Ilsan Hospital, Dongguk University College of Medicine)
<b>11:10–12:10</b> (40min + 20min)	<b>Protein engineering for novel thrombolytics development (Current results and future trends)</b> Jan Mičán (Loschmidt Laboratories; FNUSA ICRC)
<b>12:10–13:00</b>	<b>Lunch</b>

### Session 2: Advanced *in vitro* and *in vivo* models

<b>13:00–13:45</b> (Present. + Discus.) (25min + 20min)	<b>Advanced <i>in vitro</i> models for thrombolysis research and novel thrombolytics development (Current results and future trends)</b> Jan Víteček (Institute of Biophysics, CAS; FNUSA ICRC)
<b>13:45–14:30</b> (25min + 20min)	<b><i>In vivo</i> stroke preclinical research - exploring efficacy and safety profiles of thrombolytics (Current results and future trends)</b> Jana Hložková, Peter Scheer, Eliška Brhelová (FNUSA ICRC; Pharmaceutical Faculty Masaryk University)
<b>14:30–15:15</b> (25min + 20min)	<b>Unlocking the exciting potential of LA-ICP-MS analytical method in neurodegenerative diseases: revolutionizing theranostic pharmacokinetics and precision control (Current results and future trends)</b> Michaela Kuchynka (Pharmaceutical Faculty Masaryk University)



15:15–15:45

Coffee break

**Session 3: Nanoparticles in the treatment of stroke**

15:45–16:45

(Present. + Discus.)  
(40min + 20min)**Endovascular administration of biocompatible magnetized therapeutic carriers for targeted brain delivery**

Anna Rosell (Senior Researcher &amp; Group Leader, Institut de Recerca Hospital Vall d'Hebron, Barcelona)

16:45–17:30

(25min + 20min)

**Biomedical polymers in the treatment of stroke (Current results and future trends)**

Petr Chytil (Institute of Macromolecular Chemistry, CAS)

18:30

Conference banquet

**Friday June 14 (University Centre Telč)****Session 4: Charting New Horizons in Preclinical Investigation**

9:00–9:45

(Present. + Discus.)  
(30min + 15min)**From bench to bedside: clinical Trials Regulation**

Lenka Součková (CZECRIN, FNUSA, Lékařská fakulta Masarykovy university)

9:45–10:45

(30min + 30min)

**Novel targets and approaches in thrombolytic therapy**

Sandra Thalerová, Michaela Pešková (FNUSA ICRC)

10:45–11:15

Coffee break

11:15–12:45

**Panel on research inquiries and future perspectives of preclinical cerebrovascular research**  
(Discussion)

12:45–13:00

Conclusion of Conference

13:00–14:00

Lunch