

Dear Colleague,

It is our pleasure to kindly invite you to participate in "**Symposium & Workshop on Microscale Thermophoresis**" which will be held on **June 30th and July 1st 2015** at the **Faculty of Science, University of Zagreb, Horvatovac 102a**. The event is organized by the **Division of Biochemistry, Faculty of Science** in collaboration with **Nanotemper Technologies GmbH** within the FP7 project IntegraLife. Invited speakers are scientists experienced in the use of microscale thermophoresis method and NanoTemper Technologies experts.

Microscale thermophoresis (MST) is a very powerful and unique method for studying **biomolecular interactions** in free solution, independently from buffer composition. It is used to analyse biomolecules labelled with a fluorescent dye (NT.115 and NT.115^{Pico}) or unlabelled molecules that contain intrinsic fluorescence of tryptophan (NT.LabelFree). The method is applicable to unlimited types of interactions between proteins, nucleic acids, small molecules, ions, aptamers, sugars, multiprotein complexes, liposomes, membrane preparations and others. Interactions can be examined in buffer solutions, blood serum, cell extracts or tissue homogenates. Microscale thermophoresis experiments yield K_D , stoichiometry, V_{max} , k_{cat} , K_i , ΔH , ΔG , ΔS .

The purpose of this two-day meeting is to present the applications of thermophoresis to Croatian scientists. We strongly recommend participation to departments heads, group leaders, along with senior scientists as well as PhD students and researchers. The meeting will consist of **lectures, discussions** and, what is the key part, will provide all interested participants with an opportunity to **work on their own samples** for two days on all manual *Monolith* series **MST instruments (NT.115, NT.LabelFree, NT.115^{Pico})**, which will be provided by NanoTemper Technologies and Division of Biochemistry. Participants will also have the chance to present their current research during **poster session**. This, along with the planned open bar evening, will encourage fruitful scientific discussions and possible applications of MST in your research.

Participation in this symposium, which includes meals and refreshments for both days, is free of charge for all participants from Croatia. Please note that the number of participants at the workshop is limited.

We kindly ask all interested parties to fill out and submit the attached **application form** to the e-mail address: nanotemper.mstworkshopzagreb@gmail.com, **no later than May 31st 2015**.

Looking forward to see you in Zagreb.

On behalf of the Organizing Committee

Jasmina Rokov Plavec, Assist. Prof.
rokov@chem.pmf.hr
 Division of Biochemistry
 Faculty of Science
 University of Zagreb
 Horvatovac 102a, Zagreb

Piotr Wardega
 Senior Application Specialist & Sales
 NanoTemper Technologies GmbH

Symposium & Workshop on Microscale Thermophoresis

June 30th – July 1st 2015

Preliminary program

Tuesday, June 30th

- 08:30 am Registration
- 09:00 am Opening remarks and Introduction to MST (Dr. Piotr Wardega, NanoTemper Technologies)
- 09:30 am Guest Speaker - Professor Gregor Anderluh, National Institute of Chemistry, Slovenia
- 10:00 am Coffee break
- 10:30 am Guest Speaker from Faculty of Science, University of Zagreb
- 11:00 am Users discuss samples with Application Specialists
- 12:00 pm Lunch break
- 1:00 pm Experimental work on user samples / demo samples
- 6:00 pm Poster session + open bar & snacks

Wednesday, July 1st

- 09:00 am Presentation MicroScale Thermophoresis Data Analysis (Dr. David Witte, NanoTemper)
- 09:30 am Guest Speaker from University of Zagreb
- 10:00 am Coffee break
- 10:30 am Experimental work on user samples
- 12:00 pm Lunch break
- 1:30 pm Experimental work
- 4:00 pm Wrap up and Concluding Remarks
- 5:00 pm Symposium & Workshop End