

Preliminary Call for Participation in the COST Training School on

Upconverting nanoparticles in bioaffinity assays – from bioconjugation to luminescence readout

in Turku, Finland, 3. – 5. April 2017 (Monday - Wednesday)

The University of Turku, Department of Biochemistry/Biotechnology, in collaboration with Kaivogen and Labrox invites you to the three-day training school on upconverting nanoparticles in bioaffinity assays organized next spring in Turku, Finland. The training school is supported by the COST Action CM1403 (The European Upconversion Network, From the Design of Photon-Upconverting Nanomaterials to Biomedical Applications). The training school will focus on hands-on laboratory training, but includes also few lectures on selected topics. The goal is to provide participants (doctoral students and postdoctoral fellows working in the field of upconversion) with knowledge and experience on the handling and use of upconverting nanoparticles (UCNPs) in bioaffinity binding assays.

LABORATORY TRAINING TOPICS:

Monday: Conjugating proteins to UCNPs

Tuesday: UCNP conjugate characterization: concentration measurement and electrophoretic separation

Wednesday: Bioaffinity assays using UCNPs

LECTURE TOPICS:

Theory of quantum yield measurements (Dr. Ute Resch-Genger, Germany)

Scattering of nanoparticles (Dr. Christian Würth, Germany)

Electrophoretic separation of UCNPs (Dr. Antonín Hlaváček, Czech Republic)

Instrument calibration and standardization (Dr. Ute Resch-Genger, Germany)

The language of the training school is English. The certificate of participation will be issued by the University of Turku, Department of Biochemistry/Biotechnology. The full-time participation to the programme equals to 1 ECTS.

Please send your application (name, contact details, and a brief description on motivation for participating in the training school) by email to milka.kaikkonen@utu.fi at latest by Tuesday 15th November 2016 with subject "Training school 2017" in your message. Due to limited laboratory space and equipment available, the amount of participants will be restricted to 20. The accepted trainees eligible to COST rules are entitled to fixed financial contribution in the form of trainee grant covering most of the travel and accommodation expenses.

The international participants are advised to arrive to Turku on Sunday 2nd of April and depart on Thursday 6th of April. Turku airport has daily flights from/to Stockholm, Helsinki and Riga. Travel time by bus from Helsinki airport to Turku is approximately 2.5 hours.

How to get to Turku: <https://www.utu.fi/en/studying/info-accepted/Pages/How-to-Get-to-Turku.aspx>

For more information about COST Action CM1403, please visit: <http://www.ucnp.eu/>

See you next spring in Turku!