

SCIENTIFIC PROGRAMME

Thursday, May 5, 2022

Radioanalytics: A Workshop Discussion

Chairman &

Organiser:

Martin Sandvoss

10:00 – 12:00 a.m.

Room Tolstoi

This workshop discussion is aimed at those who are dealing with the analysis / quality control of isotopically labelled synthesis products in their daily business. It is intended to provide a forum for discussion and informal scientific exchange prior to the IIS-CED meeting.

Planned discussion topics will be:

- **Ralf Kiesling (Boehringer Ingelheim):** *Providing ^{14}C API for hADME – from the point of view of the Isotope Chemistry*
- **Martin Sandvoss (Sanofi):** *Small-scale Two-Dimensional LC for the Repurification of Labile Tritium Labelled Research Compounds*

As an extension to the established format, this year we are pleased to announce an “Analytical Workshop Special”:

- **Armin Hermann (Landesuntersuchungsamt Rheinland-Pfalz):** *Stable Isotopes in Wine Analytics*

Welcome & Introduction

1:00 – 1:10 p.m.

Ralf Kiesling, Dieter Muri, Thorsten Poethko, Dietrich Seidel
(Organising Committee)

Volker Derdau, President IIS-CED e.V.

Session I

Chairman:

Albert Zeller (RC Tritec, CH)

1:10 – 2:00 p.m.

Plenary Lecture

Armido Studer (Westfälische Wilhelms University Münster, GER)

“N-Radicals: Past, Presence and Future”

2:00 – 2:20 p.m. **Martin Edelmann** (Roche, CH)
“A Novel Access to Tritium-Labelled Oligonucleotides”

Exhibition - Poster session - Coffee break

2:20 – 3:15 p.m. ***Exhibition - Poster session - Coffee break (Sponsored by RC Tritec)***

Session II

Chairman: **Thomas Hartung** (Roche, CH)

3:00 – 3:15 p.m. **Stephane Leduc** (CCNuclear, CAN)
“¹⁴C Supply – long term sustainable source”

3:15 – 3:30 p.m. **Jon Bloom** (Pharmaron, UK)
“The Radiosynthesis of Evofosfamide with Carbon-14 and Tritium”

3:30 – 4.30 p.m. **2nd European Isotope Science Award Lecture**
Volker Derdau (Sanofi, GER)
“20 years of Excitement in Isotope Chemistry”

Social Program and Congress Dinner

5:00 – 11:00 p.m. **Dinner cruise on the River Main**

Buses will leave on schedule – please show up on time!

Friday, May 6, 2022

Session III

Chairman: *Aleš Marek (IOCB CAS Prague, CZ)*

8:30 – 8:50 a.m. **Michal Kriegelstein** (IOCB CAS Prague, CZ)

“Synthesis of [³H₂]-NAAG”

8:50 – 9:10 a.m. **Blair Smith** (University of Strathclyde, UK)

“Hydrogen isotope exchange of pharmaceutically relevant sulfoximines”

9:10 – 9:30 a.m. **Tobias Ross** (Hannover Medical School, GER)

“[¹⁵O]Water – A timeless challenge under GMP”

9:30 – 10:10 a.m. **Coffee Break**

Session IV

Chairman: *Jon Bloom (Pharmaron, UK)*

10:10 – 11:00 a.m. **Plenary Lecture**

Florian Seebeck (Basel University, CH)

“Methyltransferases as emerging tool in biocatalysis”

11:00 – 12:00 a.m. **International Isotope Society – Central European Division
Business Meeting**

Lunch

12:00 – 01:00 p.m. *Lunch, Hotel Restaurant*

Session V

Chairman: *Davide Audisio* (CEA Saclay, F)

- 1:00 – 1:20 p.m. **Megan Cuthbert** (University of Strathclyde, UK)
“New approaches in iridium catalysis for SP³ hydrogen isotope exchange of amino acids and peptides”
- 1:20 – 1:40 p.m. **Břetislav Brož** (IOCB CAS Prague, CZ)
“An alkylation with ²H/³H-labeled chains prepared in-situ”
- 1:40 – 2:00 p.m. **Ad Roffel** (ICON, NL)
“An approach to investigate small molecule AME properties in humans using a combination for microtracer and regular radioactivity doses”
- 2:00 – 2:20 p.m. **Csaba Tömböly** (SCR Szeged, HU)
“Tritium labelled compounds for receptor and transport studies”
- 2:20 – 2:40 p.m. **Niall M. Hamilton** (Almac Sciences, UK)
“The importance of physical form in carbon-14 labelled drug substance manufacture”

Closing Remarks

2:40 p.m. **Ralf Kiesling, Dr. Dieter Muri, Dr. Thorsten Poethko, Dr. Dietrich Seidel**
(Organising Committee)