

SCIENTIFIC PROGRAM

Thursday, June 27, 2024

Radioanalytics: A Workshop Discussion

Chairman &

Organiser:

Ralf Kiesling

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.

- **Peter Traxler (Sanofi):** “Radiation Safety at Sanofi”
- **Christian Fackler (Boehringer Ingelheim):** “Determination specific radioactivity of tritium labelled compounds”
- **Ralf Kiesling (Boehringer Ingelheim):** “Microtracer studies in humans”
- **Stéphane Leduc (RC14):** “Update on ^{14}C production”

Welcome & Introduction

1:00 – 1:10 p.m.

Ralf Kiesling, Dieter Muri, Grégory Pieters, Thorsten Poethko, Dietrich Seidel, Anna Sib

(Organising Committee)

Volker Derdau, President IIS-CED e.V.

Session I

Chairman:

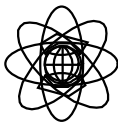
Raphael Zachmann (BASF, GER)

1:10 – 2:00 p.m.

Plenary Lecture

Josep Cornella (MPI für Kohlenforschung, Mülheim, CH)

“Innovation in Reagents and Catalysts. From fundamentals to immediate application”



- 2:00 – 2:15 p.m. **Gary Shemilt** (Pharmaron, UK)
“Synthesis of a novel Carbon 14 polymer by RAFT polymerisation with exacting molecular weight distribution”
- 2:15 – 2:30 p.m. **Quentin Lemesre** (CEA Paris-Saclay, FRA)
“Exploring base promoted dynamic processes to access isotopically labeled tertiary amides”

Exhibition - Poster session - Coffee break

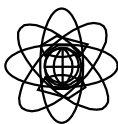
- 2:30 – 3:15 p.m. **Exhibition - Poster session - Coffee break (Sponsored by RC Tritec)**

Session II

- Chairman:** **Claudia Loewe** (Sanofi, GER)
- 3:15 – 3:35 p.m. **Ulrich Pleiss** (Radioprotect2012, GER)
“Carbon-14 – The Discovery History”
- 3:35 – 4.20 p.m. **4th European Isotope Science Award Lecture**
Grégory Pieters (CEA Paris-Saclay, FRA)
“Hydrogen isotope exchange mediated by nanoparticles”
- 4:20– 4:30 p.m. **IIS-ED Award 2024 Ceremony**

Social Program and Congress Dinner

- 5:00 – 10:00 p.m. **Visit of the old town of Idstein and Congress Dinner**
Buses will leave on schedule – please show up on time!



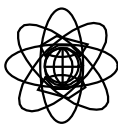
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Session III

- Chairman:** **Aleš Marek** (IOCB CAS Prague, CZ)
- 8:30 – 8:45 a.m. **Dana Stambekova** (Marquette University, USA)
“Highly Selective Cu-Catalyzed Transfer Hydrodeuteration of 1,3-Dienes”
- 8:45 – 9:00 a.m. **Jonathan Lebelt** (Leipzig University, GER)
“Versatile Hydrogen Isotope Exchange (HIE) of Aromatic Compounds in Microstructured, Fluorinated Environments”
- 9:00 – 9:20 a.m. **Elisa Martinelli** (Sanofi, GER)
“Pegylated phosphine ligands in iridium(I) catalyzed hydrogen isotope exchange reactions in aqueous buffers”
- 9:20 – 9:40 a.m. **David Lindsay** (University of Strathclyde, UK)
“The development of iridium catalysts for C(sp³)-H hydrogen isotope exchange”
- 9:40 – 10:10 a.m. **Coffee Break**

Session IV

- Chairman:** **Albert Zeller** (RC Tritec, CH)
- 10:10 – 11:00 a.m. **Plenary Lecture**
Cristina Müller (Paul Scherrer Institute/ETH Zürich, CH)
“Strategies to improve radioligand therapy: ligand design optimization & application of the “next-generation” radionuclides”
- 11:00 – 12:00 a.m. **International Isotope Society –European Division**
Business Meeting



Lunch

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

Session V

- Chairman:** **León Stopper** (Boehringer-Ingelheim, GER)
- 1:00 – 1:30 p.m. **Joseph Clark** (Marquette University, USA)
“Precision labeling of small molecules”
- 1:30 – 1:50 p.m. **Antoine Sallustrau** (CEA Paris-Saclay, FRA)
“¹⁴C-radiolabeling of graphene-based nanomaterials to study their fate in vivo”
- 1:50 – 2:10 p.m. **Lutz Helmke** (Eckert-Ziegler, GER)
“Cyclotron production of Ac-225 for targeted alpha therapy”
- 2:10 – 2:30 p.m. **Ad Roffel** (ICON, NL)
“Phase 0 microdose studies in early clinical development”
- 2:15 – 2:30 p.m. **Jannik Sälker** (Leipzig University, GER)
“Novel photocatalytic pathway for selective activation of α -C-H bonds for a direct late-stage deuteration of alcohols”
- 2:45 – 3:00 p.m. **Maxime Molins** (CEA Paris-Saclay, FRA)
“Unlocking electrophilic cyanation with carbon isotopes with [¹³C, ¹⁴C and ¹¹C]CN”

Closing Remarks

3:00 p.m. **Ralf Kiesling, Dieter Muri, Grégory Pieters, Thorsten Poethko, Dietrich Seidel, Anna Sib**
(Organising Committee)