

International Isotope Society – Central European Division  
**2<sup>nd</sup> Virtual IIS-CED Symposium**  
6. - 7. October 2021, 2-5 pm (CET)

**Scientific Programme:**

Wednesday, 6<sup>th</sup> October 2021, day 1

**2:00 (CET)** Volker Derdau, president IIS-CED, *Welcome*

Session 1, Chair: **Dieter Muri** (F. Hoffmann-La Roche Ltd.)

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**Plenary Lecture:**

**2:10 (CET)** Rylan Lundgren (University Alberta, Canada)

*„Carboxylate Exchange Reactions: Mechanisms and Application in Isotopic Labeling“*

**3:00 (CET)** Da Zhao (MPI für Kohleforschung, Germany)

*„Tritiation of aryl thianthrenium salts with a molecular palladium catalyst“*

**3:20 – 3:40 (CET)** Break

**3:40 (CET)** Joao De Oliveira (CEA Saclay & Sanofi, France)

*„Direct Carbon Isotope Exchange of Pharmaceuticals via Reversible Decyanation“*

**4:00 (CET)** Lars Kattner (Endotherm GmbH, Germany)

*„Recent developments towards the synthesis of D/<sup>13</sup>C labeled vitamin D metabolites by application of the Pauson-Khand Reaction“*

**4:20 (CET)** Alex Talbot (CEA Saclay, France)

*„Photochemical Strategy for Carbon Isotope Exchange with CO<sub>2</sub>“*

**4:40 (CET)** Alexander Utry (Westfälische Wilhelms-Universität Münster, Germany)

*„Late-Stage  $\beta$ -C(sp<sup>3</sup>)-H Deuteration of Carboxylic Acids“*

**5:00 (CET)** Closure day 1

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**2<sup>nd</sup> Virtual IIS-CED Symposium**  
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Thursday 7<sup>th</sup> October 2021, day 2

Session 2, Chair: **Ralf Kiesling** (Boehringer Ingelheim, Germany) / **Volker Derdau** (Sanofi, Germany)

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**2:00 (CET)**     **Sara Kopf**     (LIKAT Rostock, Germany)

*„Selective Hydrogen Isotope Exchange with Transient Directing Groups“*

**2:20 (CET)**     **Nathan Knight** (University of Strathclyde, United Kingdom)

*„Iridium(I)-catalysed sp<sup>3</sup> hydrogen isotope exchange using carbonyl directing groups“*

**2:40 (CET)**     **Viktor Pfeifer** (Boehringer Ingelheim, Germany)

*„Palladium Nanoparticles for the Deuteration and Tritiation of Benzylic Positions on Complex Molecules“*

**3:00 (CET)**     **Kevin Tatoueix** (CEA Saclay, France)

*„Nanocatalyzed Hydrogen Isotope Exchange using batch and flow chemistries“*

**3:20 – 3:40 (CET)**     *Break*

**3:40 (CET)**     **J. Conor Townsley** (University of Strathclyde, United Kingdom)

*„Boronic Ester Mediated Hydrogen Isotope Exchanged“*

**Plenary Lecture:**

**4:00 (CET)**     **Tracey Pirali** (University Piemonte, Italy)

*„Precision deuteration in medchem: are we moving towards heavy drugs?“*

**4:50 (CET)**     **Volker Derdau**, president IIS-CED, *Closing Remarks*

**5:00 (CET)**     Closure day 2

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To register, please follow this [link](https://forms.gle/sdzXDDeEabdgsCb97) (<https://forms.gle/sdzXDDeEabdgsCb97>). In case the link does not work due to company restrictions, send an email to [dieter.muri@roche.com](mailto:dieter.muri@roche.com) with your registration details.

We will send you the link of the Zoom meeting 2-4 weeks prior to the meeting.