

# WELCOME TO THE PRISMAP SCHOOL ON RADIONUCLIDE PRODUCTION

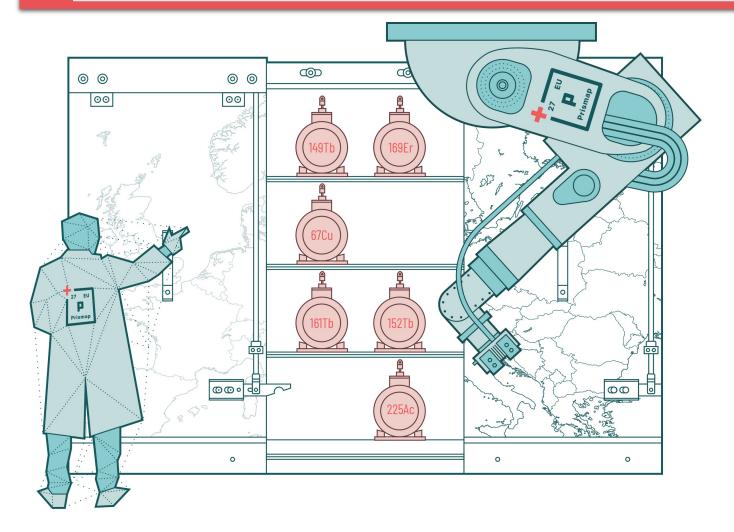
Introduction & Overview



The European Medical Radionuclide Programme



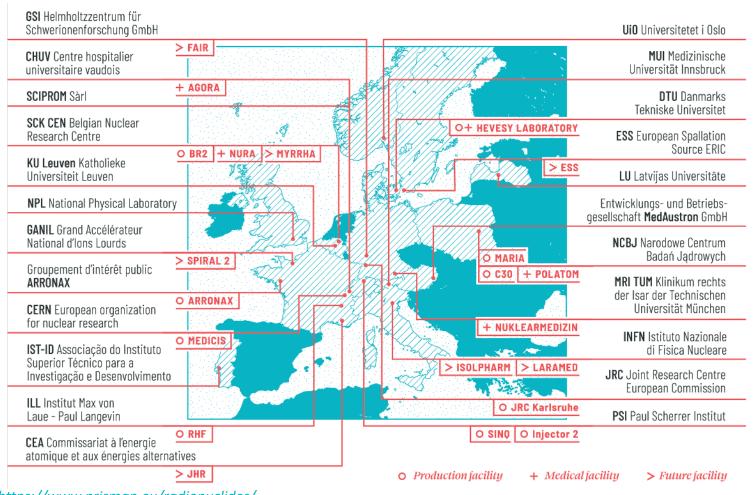
#### https://www.prismap.eu/radionuclides/user-forum/



- European infrastructure programme
- Provides transnational access to novel radioisotopes for medical research, as well as access to facilities for biological research with those isotopes.
- Excellence-based selection by a User Selection Panel.
  Two calls for project per year.
- Open User Forum to stay informed about our programme and to contribute to its future.

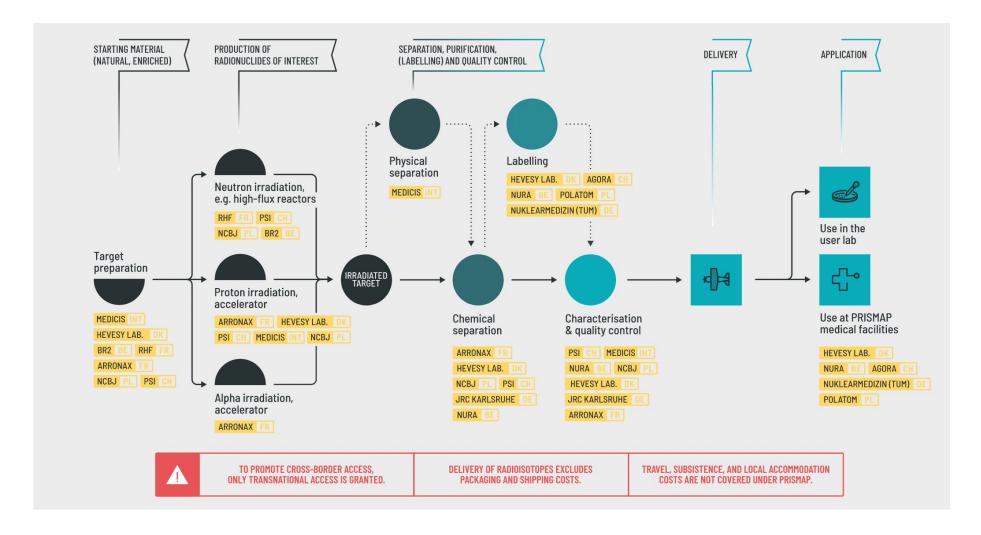








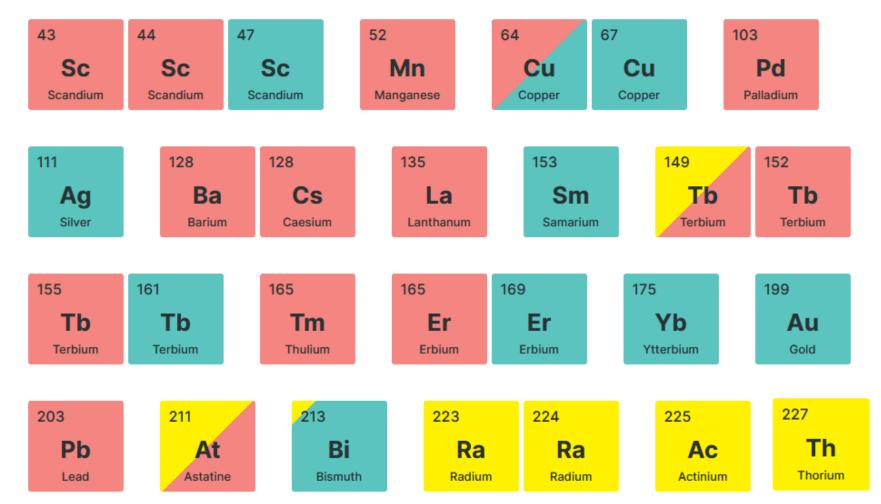
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## PRISMAP portfolio

New facilities will be needed across Europe to supply medical institutions for patient care

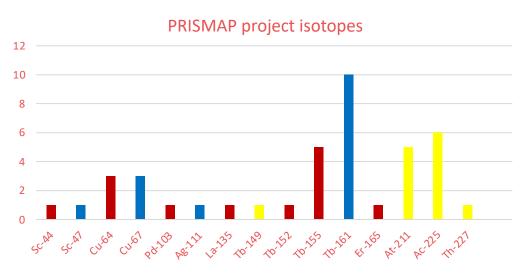


- PRISMAP went already through 4 calls
- Many isotopes require high-energy projectiles and/or mass separation to reach the necessary quality
  - Mass separation currently only available at CERN MEDICIS
- PRISMAP only offers transnational access for research purpose towards first-inhuman trials

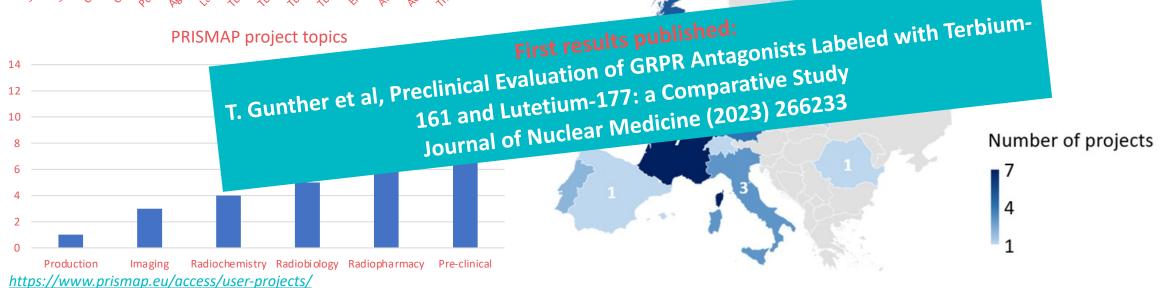


## **Projects overview**





- 32 accepted projects so far
- Covers logistics, in vitro, and in vivo research
- The Tb quadruplet is most popular
- Deliveries have begun







## **KU LEUVEN**















### **Gasthuisberg: Working on three locations**

#### **UZ** Gasthuisberg

Nuclear Medicine department Cyclotron; <sup>68</sup>Ga gen; <sup>99m</sup>Tc gen Radiochemistry (R&D and GMP)









#### **O&N1 moSAIC**

Molecular small animal imaging centre Animal experiments μPET- μSPECT-μPET/MR-μPET/CT-MR-CT

Biolumin & fluorescence Radiochemistry lab: 125I, 89Zr, 155Tb, <sup>177</sup>Lu, <sup>161</sup>Tb, <sup>213</sup>Bi/<sup>225</sup>Ac,...)







#### **O&N2**

Offices Radiopharmaceutical Research

Organic synthesis lab, bioconjugation chemistry, SDS-page, autoradiography Radio-LC-HRMS



## PRISMAP SCHOOL ON RADIONUCLIDE PRODUCTION

Overview of the week ahead

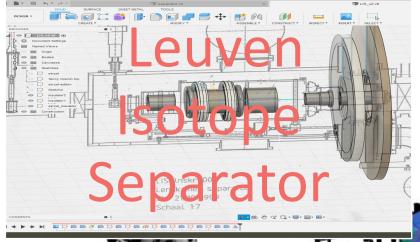
## Programme day by day

- Monday 27 May Introductions
  - Introduction by Thomas Elias Cocolios
  - Nuclear reactions by Riccardo Raabe
  - Medical practice by Christophe Deroose
  - Icebreaker afternoon
- Tuesday 28 May ISOL production
  - The ISOL technique by Thomas Elias Cocolios
  - Targets by Stefano Corradetti
  - Ion Sources by Mia Au
  - Separators by Julien Michaud
  - Collections by Laura Lambert
  - Sputtering by Lino Pereira & friends
  - Industrial fair

- Wednesday 29 May Cyclotrons
  - Lab session 1
  - Medical cyclotrons by Jean-Michel Geets
  - Exotic cyclotrons by Nathalie Michel
  - Poster session
- Thursday 30 May Reactors
  - Radionuclides from reactors by Michiel Van de Voorde
  - Stable isotope enrichment by Laurent Bigot
  - Lab session 2
  - School dinner
- Friday 31 May Purification & Logistics
  - Radiochemistry by Zeynep Talip
  - Quality control by Kristof Baete
  - Transport by Clive Naidoo

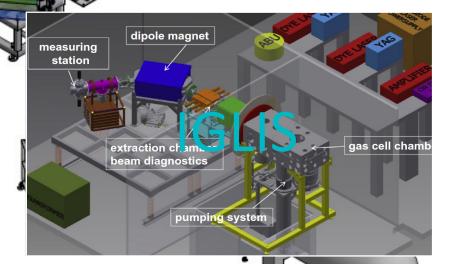
## Lab sessions











## Social programme

- Monday afternoon: icebreaker
  - Starting with an escape game in the center of Leuven
  - Followed by a degustation of local secrets
- Tuesday: Industrial fair
  - Featuring local industry partners from the field
  - Cocktail evening in the Machinezaal
- Wednesday: Poster session
  - In the registration hall
  - With drinks!
- Thursday: School dinner
  - At restaurant De Hoorn
  - Close to the Leuven marina







## Housekeeping

- We are financed for this event by the European Commission. It requires some dilligence on our part: please sign the attendance sheet every day!
- \* \* \* \* \* \* \*
- We are also financed by YouReCa and by ENEN2+: please complete their surveys at the end!



- Be engaged: ask questions, during the session, during the panel discussions, at coffee/tea breaks, in the lab, ...
- Please keep your phone on vibrate/silent.
- Exchange, make contact, discover.
- Above all, have fun!!



## The local organising committee









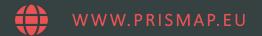








## **ENJOY THE SCHOOL!**





WWW.TWITTER.COM/MEDRADIONUCLIDI

