

# WP3

## Societal applications

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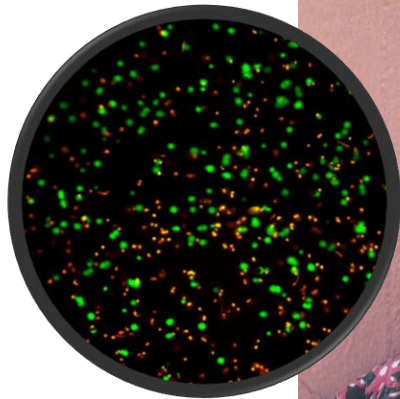
# WP3 workforce

ESR1 – Jake Johnson

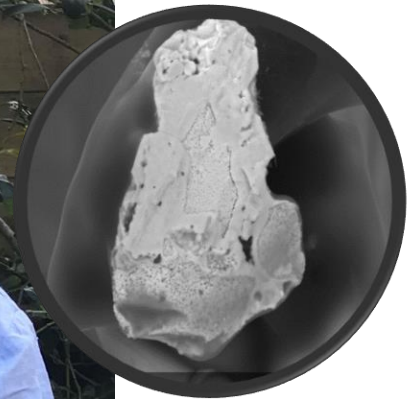
ESR12 – Darcy van Eerten

**KU LEUVEN**

NUCLEAR AND RADIATION PHYSICS



□ *Optimized production of  $^{225}\text{Ac}$  by the ISOL method for medical applications*



□ *Multi-element ultra-trace detection of radionuclides in environmental samples*

# A promise to society

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## Milestones

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- MS11: Extraction of laser-ionized radium and actinium from CERN MEDICIS [M24 = Oct 2021]
- MS12: Development of high resolution excitation schemes for Pu [M30]

**WP3 having a case of  
COVID delays**

## Deliverables

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- D8: Application of fast scanning option for multi actinide detection (test report) [M24 = Oct 2021]
- D9: Optimized production scheme for  $^{225}\text{Ac}$  and  $^{225}\text{Ra}$  (scientific report) [M30]
- D10: Application of narrowband excitation for  $^{238}\text{U}$  /  $^{238}\text{Pu}$  discrimination (scientific report) [M42]