



# Isotopes in Nanoparticles: Fundamentals and Applications

*From Pan Stanford*



**Isotopes in Nanoparticles: Fundamentals and Applications** From Pan Stanford

Nanoparticles may be used in industrial processes, incorporated into consumer products, or applied as biomedical agents. Isotopic (radio)labeling is one of the most powerful methods for nanoparticle tracing in experimental studies. This book presents an introduction to some commonly used nanomaterials, describes various methods with which they may be radiolabeled, and provides illustrative examples of applications of the labeled particles. Finally, it discusses the use of nanomaterials in radiotherapy, the stable isotope labeling technique, and operational health and safety aspects related to the manipulation of nanoparticles in controlled areas. The book will appeal to anyone involved in nanotechnology, molecular imaging, radiochemistry, and nanomedicine.?

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### Editorial Review

#### Review

"This book is very comprehensive and timely, particularly because nanomaterials are being more widely used in numerous applications across society. It endeavors to be a comprehensive resource for scientists at all levels in the fields of nanomaterials and radiochemistry and those who wish to learn about them. It is artfully constructed and leads us through available labeling strategies and the associated complexities of the multiple methods available for the preparation of radiolabeled nanomaterials. I fully recommend this book."

Dr. Jason S. Lewis, Memorial Sloan Kettering Cancer Center, USA

"This book is an excellent companion for everybody who works with radioisotopes and nanomaterials, or who wants to start in this emerging field. The book gives a comprehensive overview from the basics of nanomaterial preparation, over radiolabeling procedures, to biomedical applications and imaging. Each reader, from senior researcher to graduate students, will enjoy this book as reference work or as study book, respectively."

Prof. Dr. Tobias L. Ross, Hannover Medical School, Germany

#### About the Author

**Jordi Llop Roig** received his PhD from the Department of Analytical Chemistry at Institut Químic de Sarrià (Ramon Llull University, Spain) in 2002. After postdoc stays at Clínica Universidad de Navarra (2002) and Uppsala University PET Centre (2002–2003), he worked at IAT-PRBB (Barcelona, Spain) from 2003 to 2007. In 2007, he moved to CIC biomaGUNE (San Sebastián, Spain), where he is principal investigator of the Radiochemistry and Nuclear Imaging group and head of Radiochemistry.

Vanessa Gómez-Vallejo received her PhD from the Department of Organic Chemistry at Institut Químic de Sarrià (Ramon Llull University) in 2010. Between 2005 and 2007, she worked as quality control manager of the Radiopharmaceutical Laboratory at IAT-PRBB. In 2007, she moved to CIC biomaGUNE (San Sebastián, Spain), where she manages the Radiochemistry Platform.

Peter Neil Gibson received his PhD in physics from Trinity College Dublin, with a thesis on the subject of radiation damage in vitreous silica. He is currently a senior scientist at the European Commission's Joint Research Centre at Ispra, Italy, in the Nanobiosciences Unit of the Institute for Health and Consumer Protection. His expertise is in materials science, with extensive experience in X-ray diffraction analysis, nanoparticle characterization, and cyclotron-based nanoparticle radiolabeling.

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