SNMMI Annual Grants & Awards Recognition

2022 Recipients
SNMMI provides more than $400,000 annually to advance nuclear medicine, molecular imaging and therapy, fund professional development efforts, and promote the next generation of researchers. The SNMMI Grants and Awards Program provides the opportunity for international recognition, highlighting groundbreaking accomplishments within our specialty as well as contributions to the Society at large.

We are proud to present the SNMMI and SNMMI-TS Grants and Awards Recognition for 2022. We invite you to learn more about these recipients through this comprehensive guide of SNMMI honors, including:

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Distribution of SNMMI and SNMMI-TS grants, awards, and scholarships is contingent upon available funding. Thank you to our donors who represent the Society’s commitment to advancing nuclear medicine, molecular imaging, and therapy.

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**Education and Research Foundation for Nuclear Medicine and Molecular Imaging**

The Education and Research Foundation for Nuclear Medicine and Molecular Imaging (ERF) is the largest contributor to the SNMMI Grants and Awards Program, providing more than $200,000 in support.

**2022 Sponsor Acknowledgement:**

Additional supporters of the 2021-2022 SNMMI and SNMMI-TS grants, awards, and scholarships include:

- SNMMI-TS Professional Development and Education Fund (PDEF)
- American Registry of Radiologic Technologists (ARRT)
- Nihon Medi-Physics Co., Ltd.
- The Henry Wagner Family
- The SNMMI Value Initiative
2022 HIGHLIGHTS

Henry N. Wagner, Jr., MD, Lectureship
The Wagner Lectureship honors Henry N. Wagner, Jr., MD, who during his long and illustrious career was both an educator and leader in the practice of nuclear medicine and for more than 30 years presented the Highlights Lecture at the SNMMI Annual Meeting. Each year, a luminary in the field of nuclear medicine is invited to give this important lecture in his memory.

2022 Henry N. Wagner, Jr., MD, Lectureship: “Seeing the Light with Molecular Imaging for Systemic Cancer Treatment Decisions”
E.G. Elisabeth de Vries, MD, PhD – Professor of Medical Oncology at the University Medical Centre Groningen in Groningen, the Netherlands

Cassen Award Lectureship
The Cassen Prize honors Benedict Cassen, whose invention of the rectilinear radioisotope scanner—the first instrument capable of making an image of radiotracer distribution in body organs of living patients—was seminal to the development of clinical nuclear medicine. This award is funded through the Education and Research Foundation for Nuclear Medicine and Molecular Imaging.

2022 Cassen Lectureship: “A Matter of Time”
Simon Cherry, PhD – Professor of Biomedical Engineering and Radiology at UC Davis

Georg Charles de Hevesy Nuclear Medicine Pioneer Award
SNMMI has given the Georg Charles de Hevesy Nuclear Medicine Pioneer Award every year since 1960 to honor groundbreaking work in the field of nuclear medicine. De Hevesy received the 1943 Nobel Prize in chemistry for his work in determining the absorption, distribution, metabolism, and elimination of radioactive compounds in the human body. His work led to the foundation of nuclear medicine as a tool for diagnosis and therapy, and he is considered the father of nuclear medicine.

2022 Recipient
Markus Schwaiger, MD – Emeritus Medical Director and CEO, Klinikum rechts der Isar of the Technical University of Munich

Paul C. Aebersold, PhD, Award
First presented in 1973, The Aebersold Award is named for Paul C. Aebersold—a pioneer in the biologic and medical application of radioactive materials and the first director of the Atomic Energy Commission’s Division of Isotope Development. It recognizes outstanding achievement in basic science applied to nuclear medicine.

2022 Recipient
Robert Mach, PhD, FSNMMI – Britton Chance Professor of Radiology and director of the PET Radiochemistry Program at the University of Pennsylvania in Philadelphia, Pennsylvania
2022 HIGHLIGHTS

Sam Gambhir, MD Trailblazer Award
The Sam Gambhir Trailblazer Award is named after Sanjiv Sam Gambhir, MD, PhD, an internationally recognized pioneer in molecular imaging. Gambhir dedicated his career to developing methods of early disease detection, ushering in a new era of molecular imaging to flag signals of disease in its nascent stages. Within the field of radiology, Gambhir was known for the development of positron emission tomography reporter genes, which can flag molecular activity that signals something's gone awry in the body. Within the imaging community, he was known as a leader and scientist with sprawling expertise and a work ethic to aspire to. More than that, colleagues and many others who knew him said he was a kind and generous friend, a nurturing mentor, and a catalyst for collaboration.

2022 Recipient
Andreï Iagaru, MD, FACNM – Dr. Iagaru is a Professor of Radiology, Nuclear Medicine and the Chief of the Division of Nuclear Medicine and Molecular Imaging at Stanford University

SNMMI-TS SPOTLIGHT

SNMMI-TS Lifetime Achievement Award
Reserved for individuals who have made significant contributions to the field of Nuclear Medicine, our chapters, and the Technologist Section.

2022 Recipients
Sal Martino, EdD, RT(R), FASRT, CAE - Chief Executive Officer (CEO), American Society of Radiologic Technologists (ASRT)
Sal Martino has been with the ASRT for 22 years and has served as CEO and Executive Director for the last 13 years. During his tenure, he has led strategic collaborations with the ASRT and SNMMI-TS on State Licensure and CT qualification recognition. Thank you for your service as a leader, valued colleague, friend to SNMMI and for your extraordinary service to the field of Nuclear Medicine.

Jerry Reid, PhD – Executive Director, American Registry of Radiologic Technologists (ARRT)
Jerry Reid has been with the ARRT for 43 years and has served as the Executive Director for the last 30 years. During his tenure, he was key to the creation of a Nuclear Medicine specific position on the ARRT Board of Directors and initiated the ARRT Career Advancement Scholarship for Nuclear Medicine Technologists. Thank you for your service as a leader, valued colleague, friend to SNMMI and for your extraordinary service to the field of Nuclear Medicine.
SNMMI-TS SPOTLIGHT

SNMMI-TS Advocate(s) of the Year
Awarded to an individual who has made significant contributions to advancing advocacy efforts at the state and federal level.

2022 Recipients
Melissa M. Snody, BS, CNMT – Beaumont Health, Royal Oak, MI
For significant contributions regarding state licensure and certification efforts in Michigan.

Janice Van Dolsen, BHS, RT(N), CNMT - Doylestown Hospital, Doylestown, PA
For significant contributions regarding state licensure and certification efforts in Pennsylvania.

SNMMI-TS Outstanding Technologist
Recognizes SNMMI-TS members who have demonstrated outstanding service and dedication to the field of nuclear medicine technology.

2022 Recipient
Chloee Wendorf, MHA, CNMT, PET/CT – UC San Diego Health, San Diego, CA
Outstanding leadership as the Manager of Nuclear Medicine and PET-CT at UC San Diego Health and for amazing efforts as a volunteer leader within the SNMMI-TS.

SNMMI-TS/ERF Kathy E. Thompson-Hunt Outstanding Educator
Presented to members who have exhibited commitment to advancing the field in their workplace and through their involvement with the Society. *In 2020, the SNMMI-TS changed the name of this award to recognize the late Kathy E. Thompson Hunt, technologist section from 2010-2011 and outstanding educator.

2022 Recipient
Crystal Botkin, PhD, MPH, CNMT, PET, FSNMNI-TS – Saint Louis University, St. Louis, MO
Outstanding vision, direction and strategy as the Associate Professor and Vice Chair, Department of Clinical Health Sciences and Nuclear Medicine Technology Program Director at Doisy College of Health Sciences. Crystal has also served as chair of the SNMMI-TS Educators Committee, Curriculum Review Committee, as well as a member of the SNMMI-TS Executive Board and is the current Speaker of the National Council of Representatives.
Service Awards

SNMMI Fellowship is one of the most prestigious formal recognitions available to long-time SNMMI members and symbolizes distinguished service to SNMMI, as well as exceptional achievement in the field of nuclear medicine and molecular imaging.

SNMMI Fellows Class of 2022

- Abass Alavi, MD, FACNM
  Greater New York Chapter
  Member Since 1980

- Johannes Czernin, MD
  Pacific Southwest Chapter
  Member Since 2003

- Farrokh Dehdashti, MD
  Missouri Valley Chapter
  Member Since 1987

- Yuni Dewaraja, PhD
  Central Chapter
  Member Since 1998

- Cameron Foster, MD
  Northern California Chapter
  Member Since 2004

- Warren Janowitz, MD, JD, FACNM
  Southeastern Chapter
  Member Since 1980

- Neeta Pandit-Taskar, MD
  Greater New York Chapter
  Member Since 1993

- Daniel Pryma, MD
  Greater New York Chapter
  Member Since 2005

- Lalitha Shankar, MD, PhD
  Mid-Eastern Chapter
  Member Since 1990

- John Sunderland, PhD
  Missouri Valley Chapter
  Member Since 1989

- Richard Wahl, MD, FACR
  Missouri Valley Chapter
  Member Since 1983

- Jerold Wallis, MD
  Missouri Valley Chapter
  Member Since 1985

- Dean Wong, MD, PhD
  Missouri Valley Chapter
  Member Since 1983

- Anna Wu, PhD
  Pacific Southwest Chapter
  Member Since 1998

- Katherine Zukotynski, BASc, MD, PhD, PEng, FACNM
  Eastern Great Lakes Chapter
  Member Since 2007
SNMMI Presidential Distinguished Service Award
The SNMMI Presidential Distinguished Service Award is given to individuals who made a significant impact within SNMMI during the presidential tenure of Richard Wahl, MD, FACR. The individuals being recognized this year have been instrumental to SNMMI’s virtual education efforts.

2022 Recipients

Daniel Lee, MD
For significant contributions to the field of nuclear medicine and molecular imaging and extraordinary leadership as Co-Chair of the SNMMI Therapy Strategic Planning Task Force and President of the Therapy Center of Excellence.

John Sunderland, PhD, FSNMMI
For significant contributions to the field of nuclear medicine and molecular imaging and for extraordinary efforts on the Dosimetry Supplement.

Phillip Koo, MD
For significant contributions to the field of nuclear medicine and molecular imaging and for extraordinary service as Co-Chair of the Theranostics Symposia and Chair of the SNMMI Quality Committee.

Bonnie Clarke
For significant contributions to the field of nuclear medicine and molecular imaging and for extraordinary service as Senior Director of Research and Discovery and Quality.

Arman Rahmim, PhD
For significant contributions to the field of nuclear medicine and molecular imaging and for extraordinary service as Co-Chair of the Artificial Intelligence Task Force.

Ronald Boellaard, PhD
For significant contributions to the field of nuclear medicine and molecular imaging and for extraordinary service as Co-Chair of the Artificial Intelligence Task Force.

Pat Zanzonico, PhD
For significant contributions to the field of nuclear medicine and molecular imaging and for extraordinary service as Co-Chair of the SNMMI Dosimetry Task Force.

George Sgouros, PhD
For significant contributions to the field of nuclear medicine and molecular imaging and for extraordinary service as Co-Chair of the SNMMI Dosimetry Task Force.
Service Awards

SNMMI President Distinguished Educator
Recognizes SNMMI members who have demonstrated outstanding service and dedication to the field of nuclear medicine through their educational efforts.

2022 Recipient

Harvey Ziessman, MD, FSNMMI
For outstanding leadership and foresight with the NMT Entry Level Curriculum Revisions.

SNMMI-TS Fellowship recognizes members of the Technologist Section who have demonstrated leadership and have made a significant contribution to the profession of Nuclear Medicine Technology.

SNMMI-TS Fellows Class of 2022
This year’s fellows are unique in that they are both past Editors of the JNMT. The SNMMI-TS recognizes the tremendous amount of leadership, effort, and insight it takes to be an Editor of the Sections flagship journal and felt that it was important to bestow upon these individuals the honor of SNMMI-TS Fellow status. There have been 10 editors in the Journal’s history, some of which have already received fellow status.

L. David Wells
JNMT Editor (1974-1977)

Sue Gilbert
JNMT Editor (1995-2000)

Patricia Weigand
JNMT Editor (1978-1982)

Beth A. Harkness, MS
JNMT Editor (2001-2006)

SNMMI-TS Distinguished Service Award
The 2022 Presidential Distinguished Service Award winners are given to individuals who made a significant impact during the presidential tenure of Dusty York, MAEd, CNMT, PET, ARRT(N)(CT). The individuals being recognized this have shown exceptional leadership and have provided strategic guidance in the areas of education and research.

2022 Recipients

C. David Gilmore, EdD, CNMT, FSNMMI-TS
For outstanding leadership and foresight with the NMT Entry Level Curriculum Revisions.

Crystal Bokin, PhD, MPH, CNMT, PET, FSNMMI-TS
For outstanding leadership and foresight with the NMT Entry Level Curriculum Revisions.
SNMMI-TS Distinguished Service Award

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2022 Recipients

Mary Beth Farrell, EdD, CNMT, FSNMMI-TS
For Outstanding Contributions to the PET/CT Oncology Mini-Books.

Kathy S. Thomas, MHA, CNMT, PET, FSNMMI-TS
For Outstanding Contributions to the PET/CT Oncology Mini-Books.

Rebecca Maxey
For Outstanding Contributions to the PET/CT Oncology Mini-Books.

Art Maune, Med, CNMT
For outstanding contributions to the Nuclear Medicine Student Registry Review Course.

Leesa Ann Ross, MA, CNMT, PET, RT(N), FSNMMI-TS
For leadership and support as the Nuclear Medicine Program Director at Chattanooga State Community College.

Tina Buehner, PhD, CNMT, FSNMMI-TS
For outstanding leadership to the SNMMI-TS and mentorship.

Cheryl Rickley, CNMT, FSNMMI-TS
For outstanding contributions to the SNMMI-TS as the Chair of the State TAG’s.

Nikki Wenzel-Lamb, MBA, CAE
For Outstanding Contributions to the SNMMI Technologist Section.
Mitzi & William Blahd, MD, Pilot Research Grant
Supports a basic or clinical scientist in the early stages of their career conducting research that may lead to further funding.  
Tahir I Yusufaly, PhD

Medical & Science Student Research Grant
Supports the participation of high-achieving students in a molecular imaging/therapy research project, introducing them to molecular imaging and targeted radiotherapy as a potential career path.  
Shirley Chen, Junyu Chen, Yuchen Dai, Roberto Fedrigo, Yan Liu, Noah Nigh, Ali Fele Paranj, Divya Ramakrishnan, Saket Gokhale, Xuzhi He

2022 Cancer Cooperative Group Junior Faculty Mentorship Award
Supports nuclear medicine and molecular imaging physician participation in two in-person cooperative cancer group meetings (ACRIN-ECOG, SWOG, NRG, COG, and Alliance).  
David Ng, MD, PhD; Mariam Aboian, MD, PhD; Jeremie Calais, MD; Sandra Castelanos, MD; Rustain Morgan, MD, MS

2022 Scholarships Awarded

PDEF Mickey Williams Minority Scholarship
This scholarship honors the memory of Mickey Williams, a past SNMMI-TS president who immigrated to the United States from Jamaica, and supports minority students pursuing a two- or four-year degree in nuclear medicine.  
Fernando Anleu and Shanton Register

PDEF Professional Development Scholarship
Serves to support a student who is employed as a technologist and is actively pursuing an advanced degree related to their nuclear medicine career.  
Derrick Gillan, ARRT(N)(MR)(CT)PET

ERF SNMMI-TS Bachelor’s or Entry Level Master’s Degree Completion Scholarship
Serves to support current nuclear medicine student technologists in a BS or MS nuclear medicine technology training program or nuclear medicine technologists who are pursuing a BS or MS degree related to their nuclear medicine careers.  
Angela Weiler, CNMT and Diane Souiek, CNMT

ERF SNMMI-TS Advanced Degree Scholarship
Serves to support a student who is pursuing an advanced program to advance their career in nuclear medicine.  
Sarah Frye, CNMT

Paul Cole Technologist Scholarship
Named in memory of Paul Cole, CNMT, SNMMI-TS president in 1986 and known champion of education for technologists, this scholarship supports a student in training (or accepted) at an accredited nuclear medicine technology program.  
Fernando Anleu, Mikaya Rodgers
Dylan Cooper, Bridget Russell
Rebecca Covey, Bryn Schlender
Allison Knuth, Marina Steele
Ashley LaGrone, Teagan White
Specialty Councils & Centers of Excellence Recognition

SNMMI Councils and Centers of Excellence provide additional professional networking and educational programs for members, including opportunities for specialty lectures, awards, and grants recognizing work in specific areas of practice within nuclear medicine.

Academic Council

**Academic Council Lifetime Achievement Award**
Recognizes individuals within nuclear medicine who have distinguished themselves through a career dedicated to the advancement of patient care through academic achievement and education. This individual has also demonstrated extraordinary leadership and dedication to the council.

**Academic Council Distinguished Service Award**
The Academic Council Distinguished Service Award was established to recognize individuals within nuclear medicine who have distinguished themselves through a career dedicated to the advancement of patient care through academic achievement and education. This individual has also demonstrated extraordinary leadership and dedication to the council. The Academic Council Congratulates Erin Grady, MD, CCD, FACNM as the recipient of the 2021 Distinguished Service Award.

Cardiovascular Council

**Hermann Blumgart Award**
The highest award and honor bestowed by the Cardiovascular Council, based on scientific contributions to the field of cardiovascular nuclear medicine and service to the Council.

**Cardiovascular Council Outstanding Educator Award Lecture**
Recognizes a current CVC member who has made extraordinary and consistent educational contributions to the nuclear cardiology community and to SNMMI.

Brain Imaging Council

**Kuhl Lassen Award**
The highest award of SNMMI's Brain Imaging Council was created to honor two founding pioneers in functional brain imaging: SNMMI member David E. Kuhl, MD and Nils Lassen. The Kuhl-Lassen Award is given annually to recognize a scientist who has made outstanding contributions and whose research in and service to the discipline of functional brain imaging is of the highest caliber.

**SNMMI ANNUAL GRANTS AND AWARDS RECOGNITION**
Specialty Councils & Centers of Excellence Recognition

General Clinical Nuclear Medicine Council Lifetime Achievement Award
Recognizes those physicians and scientists who have distinguished themselves through a career dedicated to the advancement of patient care through the field of Nuclear Medicine. These individuals will have provided outstanding contributions to the general nuclear medicine subspecialties including urogenital, pulmonary, musculoskeletal, endocrine and gastrointestinal imaging that have advanced the field to allow improved clinical diagnosis and patient care.

Shankar Vallabhajosula, PhD

Physics, Instrumentation, and Data Sciences Council
Barry Siegel Lecture
Honors an individual who had made groundbreaking and consistent educational contributions to correlative imaging and to SNMMI and the Physics, Instrumentation, and Data Sciences Council. Dr. Barry Siegel made outstanding contributions to correlative imaging, namely, regarding the National Oncologic PET Registry (NOPR) and its tremendous impact on PET/CT imaging and reimbursement.

David Schuster, MD, FACS

Physics, Instrumentation, and Data Sciences Council
Hoffman Lecture Award
The highest award of SNMMI’s Physics, Instrumentation, and Data Sciences Council was created to honor the memory of Professor Edward J. Hoffman. It recognizes scientists in the field of nuclear medicine for their service and devotion to research and development of nuclear medicine instrumentation and to educating and training the next generation of scientists.

Margaret Daube-Witherspoon, PhD

Radiopharmaceutical Sciences Council
Berson-Yalow Award
Celebrates the contributions of Solomon A. Berson, MD, and Rosalyn S. Yalow, PhD (Nobel Laureate 1977), who pioneered the principle of the competitive binding assay and used it to develop the field of radioimmunoassay, which became a mainstay of early nuclear medicine. Since radioimmunoassay is no longer used extensively, this award will continue to recognize outstanding original work in the field of nuclear medicine and recognize the use of competitive receptor-binding assays in vitro and/or in vivo.

Cassis Varlow, BSc

Tracey Lynn Faber Award
Given each year to support advancement of women in medical imaging sciences. The award is given either to an individual who has significantly promoted the advancement of women in medical imaging sciences, or to a woman in early- or mid-career who has made significant contributions to medical imaging sciences.

Emilie Roncali, PhD

Michael J. Welch Award
Recognizes individuals who have made an outstanding contribution to the field of radiopharmaceutical sciences, have been involved in mentoring students, postdoctoral fellows and junior faculty, and have been involved in community service to the field of radiopharmaceutical chemistry and molecular imaging.

Weibo Cai, PhD, FAIMBE, FSNMMI

Margaret Daube-Witherspoon, PhD

Hoffman Lecture Award
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Weibo Cai, PhD, FAIMBE, FSNMMI
Radiopharmaceutical Sciences Council

Michael J. Welch Postdoctoral Grant
Awarded to a post-doctoral individual who has demonstrated a novel approach to radiochemistry.

Jay Wright, PhD
Abstract: Radiofluorination of Sterically Congested Amides

Sally W. Schwarz Award for Outstanding Contribution in Radiopharmacy
The Sally W. Schwarz Award was created as a means of recognizing individuals who have made an outstanding contribution to the field of radiopharmacy. This contribution can be in the form of radiopharmaceutical development, production and/or translation of radiopharmaceuticals for nuclear medicine and molecular imaging, and/or significant contributions to the regulatory oversight of radiopharmaceutical supply and administration, and/or in the mentoring and education of the next generation of radiopharmacists.

Neil A. Petry, MS, RPh, BCNP, FAPhA

Therapy Center of Excellence

Saul Hertz Award
Established in honor of the professional achievements of Dr. Hertz as the pioneer of radioiodine therapy, this award recognizes individuals who have made outstanding contributions to radionuclide therapy.

Andrew M. Scott, MD, FRACP, FAANMS

Center for Molecular Imaging Innovation and Translation

SNMMI CMIIT Laboratory Professional Recognition Award for Contributions to Molecular Imaging
Recognizes innovative/novel and high-impact tools, techniques, and practices in molecular imaging laboratory professionals. Its purpose is to promote the innovative efforts and exemplary accomplishments by individuals in the lab who may not have the opportunity to receive recognition in other arenas.

Teja Kalidindi, BS, MS

PET Center of Excellence

Peter E. Valk, MD, Memorial Lectureship
Created to honor the memory of Dr. Valk, a pioneer in the establishment of PET as an important clinical study, this award recognizes individuals who have made significant contributions to the advancement of PET, including PET/CT, PET/MRI, and other emerging technologies, as well as those individuals who are dedicated to the PET Center of Excellence.

Johannes Czernin, MD
Publication Awards

2022 Image of the Year
Each year, SNMMI chooses an image that best exemplifies the most promising advances in the field of nuclear medicine and molecular imaging. The state-of-the-art technologies captured in these images demonstrate the capacity to improve patient care by detecting disease, aiding diagnosis, improving clinical confidence, and providing a means of selecting appropriate treatments. This year, the SNMMI Henry N. Wagner, Jr., MD, Image of the Year was chosen from all the abstracts submitted to the SNMMI Annual Meeting and voted on by both the reviewers and the society leadership.

Predicting Remodeling and Outcome from Molecular Imaging of Fibroblast Activation in Patients after Acute Myocardial Infarction
First Author: Johanna Diekmann

The Journal of Nuclear Medicine Best Papers

EDITORS’ CHOICE AWARD — FOR THE BEST CLINICAL ARTICLE IN 2021
PRESENTED TO: Manuel Röhrich, Patrick Naumann, Frederik L. Giesel, Peter L. Choyke, Fabian Staudinger, Annika Wefers, Dawn P. Liew, Clemens Kratochwil, Hendrik Rathke, Jakob Liermann, Klaus Herfarth, Dirk Jäger, Jürgen Debus, Uwe Haberkorn, Matthias Lang, and Stefan A. Koerber
Department of Nuclear Medicine, Heidelberg University Hospital, Heidelberg, Germany
FOR: Impact of $^{68}$Ga-FAPI PET/CT Imaging on the Therapeutic Management of Primary and Recurrent Pancreatic Ductal Adenocarcinomas

EDITORS’ CHOICE AWARD — FOR THE BEST BASIC SCIENCE ARTICLE IN 2021
PRESENTED TO: Mark G. MacAskill, Agne Stadulyte, Lewis Williams, Timaeus E.F. Morgan, Nikki L. Sloan, Carlos J. Alcaide-Corral, Tashfeen Walton, Catriona Wimberley, Chris-Anne McKenzie, Nick Spath, William Mungall, Ralph BouHaidar, Marc R. Dweck, Gillian A. Gray, David E. Newby, Christophe Lucatelli, Andrew Sutherland, Sally L. Pimlott, and Adriana A.S. Tavares
University/BHF Centre for Cardiovascular Science, University of Edinburgh, Edinburgh, United Kingdom
FOR: Quantification of Macrophage-Driven Inflammation During Myocardial Infarction with $^{18}$F-LW223, a Novel TSPO Radiotracer with Binding Independent of the rs6971 Human Polymorphism

EDITORS’ CHOICE AWARD — FOR THE OVERALL BEST ARTICLE IN 2021
PRESENTED TO: Manuel Röhrich, Patrick Naumann, Frederik L. Giesel, Peter L. Choyke, Fabian Staudinger, Annika Wefers, Dawn P. Liew, Clemens Kratochwil, Hendrik Rathke, Jakob Liermann, Klaus Herfarth, Dirk Jäger, Jürgen Debus, Uwe Haberkorn, Matthias Lang, and Stefan A. Koerber
Department of Nuclear Medicine, Heidelberg University Hospital, Heidelberg, Germany
FOR: Impact of $^{68}$Ga-FAPI PET/CT Imaging on the Therapeutic Management of Primary and Recurrent Pancreatic Ductal Adenocarcinomas
Publication Awards

Journal of Nuclear Medicine Technology Best Papers

EDITORS’ CHOICE AWARD — FOR 1ST PLACE ARTICLE IN 2021
PRESENTED TO: Shannon N. Youngblood
University of Arkansas for Medical Sciences, Little Rock, Arkansas, and Ochsner Medical Center, Baton Rouge, Louisiana
FOR: Bullying in the Nuclear Medicine Department and During Clinical Nuclear Medicine Education

EDITORS’ CHOICE AWARD — FOR 2ND PLACE ARTICLE IN 2021
PRESENTED TO: Kyohei Okuda, Daisuke Hasegawa, Takashi Kamiya, Hajime Ichikawa, Takuro Umeda, Takushi Ohkubo, and Kenta Miwa
Department of Clinical Radiology, Tottori University Hospital, Yonago, Japan
FOR: Multicenter Study of Quantitative SPECT: Reproducibility of $^{99m}$Tc Quantitation Using a Conjugated-Gradient Minimization Reconstruction Algorithm

EDITORS’ CHOICE AWARD — FOR 3RD PLACE ARTICLE IN 2021
PRESENTED TO: Pietro Paolo de Barros, Tatiane Sabriela Cagol Camozzato, Tiago Jahn, Flávio Augusto Penna Soares, Leticia Machado da Silva, Jacqueline de Aguiar Soares, and Marco Antonio Neiva Koslosky
Federal Institute of Education, Science, and Technology of Santa Catarina-IFSC, Florianópolis, Santa Catarina, Brazil
FOR: Analysis of Radiometry on Patients Undergoing Radioactive Iodine Therapy

EDITORS’ CHOICE AWARD — FOR BEST CONTINUING EDUCATION ARTICLE IN 2021
PRESENTED TO: Julie Bolin
Nuclear Medicine Technology Program, GateWay Community College, Phoenix, Arizona
FOR: Thyroid Follicular Epithelial Cell–Derived Cancer: New Approaches and Treatment Strategies

EDITORS’ CHOICE AWARD — FOR BEST EDUCATORS’ FORUM ARTICLE IN 2021
PRESENTED TO: George Patchoros and Grace Wenzler
Department of Engineering, Physics, and Technology, Bronx Community College, Bronx, New York
FOR: Satisfying Program-Level Outcomes by Integrating Primary Literature into the Online Classroom
2022 Alavi–Mandell Awards
FOR JNM ARTICLES PUBLISHED IN 2021

Preclinical Development of F-OF-NB1 for Imaging GluN2B-Containing N-Methyl-D-Aspartate Receptors and Its Utility as a Biomarker for Amyotrophic Lateral Sclerosis
Institute of Pharmaceutical Sciences, ETH Zurich, Zurich, Switzerland

Transarterial Radioembolization Versus Systemic Treatment for Hepatocellular Carcinoma with Macrovascular Invasion: Analysis of the U.S. National Cancer Database
Joseph C. Ahn, Marie Lauzon, Michael Luu, Marc L. Friedman, Kambiz Kosari, Nicholas Nissen, Shelly C. Lu, Lewis R. Roberts, Amit G. Singal, and Ju Dong Yang
Division of Gastroenterology and Hepatology, Mayo Clinic, Rochester, Minnesota

Combination of Forced Diuresis with Additional Late Imaging in 68 Ga-PSMA-11 PET/CT: Effects on Lesion Visibility and Radiotracer Uptake
Ian Alberts, Jan Niklas-Hünermund, Christos Sachpekidis, Helle Damgaard Zacho, Clemens Mingels, Lotte Dijkstra, Carl Peter Bohn, Tilman Läppchen, Eleni Gourni, Axel Rominger, and Ali Afshar-Oromieh
Department of Nuclear Medicine, Inselspital, Bern University Hospital, University of Bern, Bern, Switzerland

Dose–Response and Dose–Toxicity Relationships for Glass 90 Y Radioembolization in Patients with Liver Metastases from Colorectal Cancer
Division of Imaging and Oncology, University Medical Center Utrecht, Utrecht University, Utrecht, The Netherlands

Cyclotron-Produced 132La as a PET Imaging Surrogate for Therapeutic 225 Ac
Eduardo Aluicio-Sarduy, Todd E. Barnhart, Jamey Weichert, Reinier Hernandez, and Jonathan W. Engle
Department of Medical Physics, University of Wisconsin–Madison, Madison, Wisconsin

The Impact of Monosodium Glutamate on 68 Ga-PSMA-11 Biodistribution in Men with Prostate Cancer: A Prospective Randomized, Controlled Imaging Study
Wesley R. Armstrong, Andrei Gafita, Shaojun Zhu, Pan Thin, Kathleen Nguyen, Rejah Alano, Stephanie Lira, Kiara Booker, Linda Gardner, Tristan Grogan, David Elashoff, Martin Allen-Auerbach, Magnus Dahlbom, Johannes Czernin, and Jeremie Calais
Ahmanson Translational Theranostics Division, Department of Molecular and Medical Pharmacology, UCLA, Los Angeles, California

Optical Navigation of the Drop-In γ-Probe as a Means to Strengthen the Connection Between Robot-Assisted and Radioguided Surgery
Samaneh Azargoshasb, Krijn H.M. Houwing, Paul R. Roos, Sven I. van Leeuwen, Michael Boonekamp, Elio Mazzone, Kevin Bawwens, Paolo Dell’Oglio, Fijis W.B. van Leeuwen, and Matthias N. van Oosterom
Interventional Molecular Imaging Laboratory, Department of Radiology, Leiden University Medical Center, Leiden, The Netherlands

GRPr Antagonist 68 Ga-SB3 PET/CT Imaging of Primary Prostate Cancer in Therapy-Naïve Patients
Ingrid L. Bakker, Alida C. Fröberg, Martijn B. Busstra, J. Fred Verzijlbergen, Mark Konijnenberg, Geert J.L.H. van Leenders, Ivo G. Schoots, Erik de Blois, Wytske M. van Weerden, Simone U. Dalm, Theodosia Maina, Berthold A. Nock, and Marion de Jong
Department of Radiology and Nuclear Medicine, Erasmus MC, Rotterdam, The Netherlands

PET/MRI Improves Management of Children with Cancer
Lucia Baratto, K. Elizabeth Hawk, Lisa States, Jing Qi, Sergios Gatidis, Louise Kiru, and Heike E. Daldrup-Link
Department of Radiology, Stanford University, Stanford, California

Technologic (R)Evolution Leads to Detection of More Sentinel Nodes in Patients with Melanoma in the Head and Neck Region
Department of Head and Neck Surgery and Oncology, The Netherlands Cancer Institute–Antoni van Leeuwenhoek, Amsterdam, The Netherlands

(*contributed equally)
Principal-Component Analysis–Based Measures of PET Data Closely Reflect Neuropathologic Staging Schemes  
Ganna Blazhenets, Lars Frings, Arnd Sörensen, and Philipp T. Meyer, for the Alzheimer’s Disease Neuroimaging Initiative  
Department of Nuclear Medicine, Medical Center–University of Freiburg, Faculty of Medicine, University of Freiburg, Freiburg, Germany  

Slow but Evident Recovery from Neocortical Dysfunction and Cognitive Impairment in a Series of Chronic COVID-19 Patients  
Ganna Blazhenets, Nils Schroeter, Tobias Bormann, Johannes Thurow, Dirk Wagner, Lars Frings, Cornelius Weiller, Philipp T. Meyer, Andrea Dressing, and Jonas A. Hosp  
Department of Nuclear Medicine, Faculty of Medicine, Medical Center–University of Freiburg, University of Freiburg, Freiburg, Germany  

SUVs Are Adequate Measures of Lesional ¹⁸F-DCFPyL Uptake in Patients with Low Prostate Cancer Disease Burden  
Yves J.L. Bodar, Berend P.F. Koene, Bernard H.E. Jansen, Matthijs C.F. Cysouw, Dennie Meijer, N. Harry Hendrikse, André N. Vis, Ronald Boellaard, and Daniela E. Oprea-Lager  
Department of Urology, Amsterdam University Medical Centers, VU University, Amsterdam, The Netherlands  

Value of ¹⁸F-FES PET in Solving Clinical Dilemmas in Breast Cancer Patients: A Retrospective Study  
Jorianne Boers, Naila Loudini, Celina L. Brunsch, Sylvia A. Koza, Erik F.J. de Vries, Andor W.J.M. Glaudemans, Geke A.P. Hospers, and Carolina P. Schröder  
Department of Medical Oncology, University Medical Center Groningen, University of Groningen, Groningen, The Netherlands  

Repurposing ¹¹C-PS13 for PET Imaging of Cyclooxygenase-1 in Ovarian Cancer Xenograft Mouse Models  
Amanda J. Boyle, Junchao Tong, Sami S. Zoghbi, Victor W. Pike, Robert B. Innis, and Neil Vasdev  
Azrieli Centre for Neuro-Radiochemistry, Brain Health Imaging Centre, Centre for Addiction and Mental Health, Toronto, Ontario, Canada  

Deep-Learning ¹⁸F-FDG Uptake Classification Enables Total Metabolic Tumor Volume Estimation in Diffuse Large B-Cell Lymphoma  
Nicolò Capobianco, Michel Meignan, Anne-Ségoléne Cottereau, Laetitia Vercellino, Ludovic Sibille, Bruce Spottswoode, Sven Zuehlodosff, Olivier Casasnovas, Catherine Thieblemont, and Irène Buvat  
Siemens Healthcare GmbH, Erlangen, Germany  

Semiautomatic Tumor Delineation for Evaluation of ⁶⁴Cu-DOTATATE PET/CT in Patients with Neuroendocrine Neoplasms: Prognostication Based on Lowest Lesion Uptake and Total Tumor Volume  
Esben Andreas Carlsen, Camilla Bardram Johnbeck, Mathias Loft, Andreas Pfeiffer, Peter Oturai, Seppo W. Langer, Ulrich Knigge, Claes Nehr Ladedoged, and Andreas Kjaer  
Department of Clinical Physiology, Nuclear Medicine & PET and Cluster for Molecular Imaging, Department of Biomedical Sciences, Rigshospitalet and University of Copenhagen, Copenhagen, Denmark  

Patient Size-Dependent Dosimetry Methodology Applied to ¹⁸F-FDG Using New ICRP Mesh Phantoms  
Lukas M. Carter, Chansoo Choi, Simone Krebs, Bradley J. Beattie, Chan Hyeong Kim, Heiko Schoder, Wesley E. Bolch, and Adam L. Kesner  
Department of Medical Physics, Memorial Sloan Kettering Cancer Center, New York, New York  

Diversity, Equity, and Inclusion in Academic Nuclear Medicine: National Survey of Nuclear Medicine Residency Program Directors  
Department of Diagnostic Imaging, The Warren Alpert Medical School of Brown University/Rhode Island Hospital, Providence, Rhode Island  

Unexplained Hyperthyroglobulinemia in Differentiated Thyroid Cancer Patients as an Indication for Radioiodine Adjuvant Therapy: A Prospectiv Multicenter Study  
Lin Cheng, Ri Sa, Qiong Luo, Hao Fu, Yuchen Jin, Lingling Tang, Yi Yang, Chunjing Yu, and Libo Chen  
Department of Nuclear Medicine, Shanghai Jiao Tong University Affiliated Sixth People’s Hospital, Shanghai, China  

Evaluation of ¹⁸F-FDG PET and DWI Datasets for Predicting Therapy Response of Soft-Tissue Sarcomas Under Neoadjuvant Isolated Limb Perfusion  
Michal Chodyla, Aydin Demircioglu, Benedikt M. Scharschmidt, Stefanie Bertram, Nils Martin Bruckmann, Jennifer Hafekamp, Yan Li, Sebastian Bauer, Lars Podleska, Christoph Rischpler, Michael Forsting, Ken Herrmann, Lale Umutlu, and Johannes Grueneisen  
Department of Diagnostic and Interventional Radiology, University Hospital Essen, University of Duisburg–Essen, Essen, Germany  

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18F-FLT PET/CT Adds Value to 18F-FDG PET/CT for Diagnosing Relapse After Definitive Radiotherapy in Patients with Lung Cancer: Results of a Prospective Clinical Trial
Tine Nørh Christensen, Seppo W. Langer, Gitte Persson, Klaus Richter Larsen, Annika Loft, Annemarie Gjelstrup Amtoft, Anne Kiil Berthelsen, Helle Hjorth Johannesen, Sune Høgild Keller, Andreas Kjaer, and Barbara Malene Fischer
Department of Clinical Physiology, Nuclear Medicine, and PET, Copenhagen University Hospital, Rigshospitalet, Copenhagen, Denmark

Mapping Arginase Expression with 18F-Fluorinated Late-Generation Arginase Inhibitors Derived from Quaternary α-Amino Acids
Gonçalo S. Clemente, Inês F. Antunes, Santosh Kurhade, Mariska P.M. van den Berg, Jürgen W.A. Sijbesma, Aren van Waarde, Rogier C. Buijsman, Nicole Willemsen-Seegers, Reinoud Gosens, Herman Meurs, Alexander Dömling, and Philip H. Elsinga
Department of Nuclear Medicine and Molecular Imaging, University Medical Center Groningen, University of Groningen, Groningen, The Netherlands

Clinical Utility of 18F-FDG PET/CT for Staging and Treatment Planning in Urachal Adenocarcinoma
Jeeban P. Das, Hebert A. Vargas, Soleen Ghafoor, Alvin C. Goh, and Gary A. Ulaner
Department of Radiology, Memorial Sloan Kettering Cancer Center, New York, New York

A Rapid and Safe Infusion Protocol for 177Lu Peptide Receptor Radionuclide Therapy
Department of Nuclear Medicine, University Medical Center Utrecht, Utrecht, The Netherlands

Identification of PCWG3 Target Populations Is More Accurate and Reproducible with PSMA PET Than with Conventional Imaging: A Multicenter Retrospective Study
Andrea Farolfi, Nader Hirmas, Andrei Gafita, Manuel Weber, Francesco Barbato, Axel Wetter, Riccardo Mei, Davide Pianori, Boris Hadaschik, Ken Herrmann, Paolo Castellucci, Stefano Fanti, Matthias Eiber, and Wolfgang P. Fendler
Nuclear Medicine Unit, University of Bologna, S. Orsola Hospital, Bologna, Italy

Volumetric PET Response Assessment Outperforms Conventional Criteria in Patients Receiving High-Dose Pembrolizumab for Malignant Mesothelioma
Justin Ferdinandus, Francesco Barbato, Michal Chodyla, Wolfgang P. Fendler, Lukas Kessler, Kelsey L. Pomykala, Martin Metzenmacher, Frederik Kretting, Thomas Hager, Lale Umutlu, Ken Herrmann, and Daniel C. Christoph
Department of Nuclear Medicine, University of Duisburg–Essen, and German Cancer Consortium–University Hospital Essen, Essen, Germany

Preclinical Characterization of the Radioimmunoconjugate 111In or 90Y-FF-21101 Against a P-Cadherin–Expressing Tumor in a Mouse Xenograft Model and a Nonhuman Primate
Yuichi Funase, Eri Nakamura, Masamichi Kajita, Yasutaka Saito, Shinobu Oshikiri, Michi Kitano, Masahiko Tokura, Akihiro Hino, and Tomoya Uehara
RI Research Department, Fujifilm Toyama Chemical Co., Ltd., Chiba, Japan

18F-FDG PET/CT Sheds Light on a Case of Hyponatremia
Delphine Gans, Pauline Braet, Niloefar Ahmadi Bidakhvidi, Christophe M. Deroose, Brigitte Decallonne, and Sander Jentjens
Division of Nuclear Medicine, University Hospitals Leuven, Leuven, Belgium

PARP1: A Potential Molecular Marker to Identify Cancer During Colposcopy Procedures
Department of Radiology, Memorial Sloan Kettering Cancer Center, New York, New York

A Novel Time–Activity Information-Sharing Approach Using Nonlinear Mixed Models for Patient-Specific Dosimetry with Reduced Imaging Time Points: Application in SPECT/CT After 177Lu-DOTATATE
Theresa P. Devasia, Yuni K. Dewaraja, Kirk A. Frey, Ka Kit Wong, and Matthew J. Schipper
Department of Biostatistics, University of Michigan, Ann Arbor, Michigan

Identification of Arginase Expressed by Macrophages in a Murine Model of Lung Cancer
Thomas Hager, Martin Metzenmacher, Frederik Kretting, Lale Umutlu, Ken Herrmann, and Daniel C. Christoph
Department of Nuclear Medicine, University of Duisburg–Essen, and German Cancer Consortium–University Hospital Essen, Essen, Germany

A Rapid and Safe Infusion Protocol for 177Lu Peptide Receptor Radionuclide Therapy
Department of Nuclear Medicine, University Medical Center Utrecht, Utrecht, The Netherlands

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Nuclear Medicine Unit, University of Bologna, S. Orsola Hospital, Bologna, Italy

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Department of Nuclear Medicine, University of Duisburg–Essen, and German Cancer Consortium–University Hospital Essen, Essen, Germany

Preclinical Characterization of the Radioimmunoconjugate 111In or 90Y-FF-21101 Against a P-Cadherin–Expressing Tumor in a Mouse Xenograft Model and a Nonhuman Primate
Yuichi Funase, Eri Nakamura, Masamichi Kajita, Yasutaka Saito, Shinobu Oshikiri, Michi Kitano, Masahiko Tokura, Akihiro Hino, and Tomoya Uehara
RI Research Department, Fujifilm Toyama Chemical Co., Ltd., Chiba, Japan

18F-FDG PET/CT Sheds Light on a Case of Hyponatremia
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Division of Nuclear Medicine, University Hospitals Leuven, Leuven, Belgium

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Latest Advances in Imaging Oxidative Stress in Cancer
Hannah E. Greenwood and Timothy H. Witney
School of Biomedical Engineering and Imaging Sciences, King’s College London, London, United Kingdom
*J Nucl Med 2021; 62:1506–1510*

Identification of a PET Radiotracer for Imaging of the Folate Receptor-α: A Potential Tool to Select Patients for Targeted Tumor Therapy
Patrycja Guzik, Hsin-Yu Fang, Luisa M. Deberle, Martina Benešová, Susan Cohrs, Silvan D. Boss, Simon M. Ametamey, Roger Schibli, and Cristina Müller
Center for Radiopharmaceutical Sciences, Paul Scherrer Institute, Villigen-PSI, Switzerland
*J Nucl Med 2021; 62:1475–1481*

Molecular Imaging of Very Late Antigen-4 in Acute Lung Injury
Department of Radiology, University of Pittsburgh, Pittsburgh, Pennsylvania

One-Stop Shop: ¹⁸F-Flortaucipir PET Differentiates Amyloid-Positive and -Negative Forms of Neurodegenerative Diseases
Jochen Hammes, Gérard N. Bischof, Karl P. Bohn, Özgür Onur, Anja Schneider, Klaus Flissbach, Merle C Höning, Frank Jessen, Bernd Neumaier, Alexander Drzezga, and Thilo van Eimeren
Multimodal Neuroimaging, Department of Nuclear Medicine, University Hospital and Medical Faculty, University of Cologne, Cologne, Germany

The Effects of Monosodium Glutamate on PSMA Radiotracer Uptake in Men with Recurrent Prostate Cancer: A Prospective, Randomized, Double-Blind, Placebo-Controlled Intraindividual Imaging Study
Sara Harsini, Heather Saprunoff, Tina Alden, Behnoud Mohammadi, Don Wilson, and François Bénard
BC Cancer, Vancouver, British Columbia, Canada

Bone Mineral Density: Clinical Relevance and Quantitative Assessment
Katherine N. Haseltine, Tariq Chukir, Pinar J. Smith, Justin T. Jacob, John P. Bilezikian, and Azeez Farooki
Endocrinology Service, Department of Medicine, Memorial Sloan Kettering Cancer Center, New York, New York
*J Nucl Med 2021; 62:446–454*

Exploiting the MUC5AC Antigen for Noninvasive Identification of Pancreatic Cancer
Kelly E. Henry, Travis M. Shaffer, Kyeara N. Mack, Janine Ring, Anuja Ogirala, Susanne Klein-Scory, Christina Ellert-Micus, Wolff Schmiegel, Thilo Bracht, Barbara Sitek, Marguerite Clyne, Colm J. Reid, Bence Sipos, Jason S. Lewis, Holger Kalthoff, and Jan Grimm
Department of Radiology, Memorial Sloan Kettering Cancer Center, New York, New York
*J Nucl Med 2021; 62:1384–1390*

Targeted PET Imaging of Chemokine Receptor 2–Positive Monocytes and Macrophages in the Injured Heart
Gyu Seong Heo, Geetika Bajpai, Wenjun Li, Hannah P. Luehmann, Deborah H. Sultan, Hao Dun, Florian Leuschner, Steven L. Brody, Robert J. Gropler, Daniel Kreisel, Kory J. Lavine, and Yongjian Liu
Department of Radiology, Washington University School of Medicine, St. Louis, Missouri

The Latest Advances in Imaging Crosstalk Between the Immune System and Fibrosis in Cardiovascular Disease
Gyu Seong Heo, Lanlan Lou, Deborah Sultan, and Yongjian Liu
Mallinckrodt Institute of Radiology, Washington University School of Medicine, St. Louis, Missouri
*J Nucl Med 2021; 62:1341–1346*

⁶⁸Ga-PSMA-11 PET/CT Improves Tumor Detection and Impacts Management in Patients with Hepatocellular Carcinoma
Nader Hirmas, Catherine Leyh, Miriam Sraieb, Francesco Barbato, Benedikt M. Schaarschmidt, Lale Umutlu, Michael Nader, Heiner Wedemeyer, Justin Ferdinandus, Christoph Rischpler, Ken Herrmann, Pedro Fragoso Costa, Christian M. Lange, Manuel Weber, and Wolfgang P. Fendler
Department of Nuclear Medicine, University of Duisburg–Essen and German Cancer Consortium–University Hospital Essen, Essen, Germany
*J Nucl Med 2021; 62:1235–1241*

Radionuclide Imaging of the Gut–Brain Axis in Parkinson Disease
Jacob Horsager, Karoline Knudsen, and Per Borghammer
Department of Nuclear Medicine and PET, Aarhus University Hospital, Aarhus, Denmark
*J Nucl Med 2021; 62:1504-1505*

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The Synthesis and Structural Requirements for Measuring Glucocorticoid Receptor Expression In Vivo with (±)-11C-YJH08 PET
Yangjie Huang, Ning Zhao, Yung-hua Wang, Charles Truillet, Junnian Wei, Matthew F.L. Parker, Joseph E. Blecha, Christopher R. Drake, Henry F. VanBrooklin, Diego Garrido-Ruiz, Matthew P. Jacobson, Rahul Aggarwal, Spencer C. Behr, Robert R. Flavell, David M. Wilson, Youngho Seo, and Michael J. Evans
Department of Radiology and Biomedical Imaging, University of California San Francisco, San Francisco, California

Current Landscape in Clinical Pretargeted Radioimmunoimaging and Therapy
Vilma I.J. Jallinoja and Jacob L. Houghton
Department of Radiology, Stony Brook University, Stony Brook, New York

89 Zr-Labeled Anti-PD-L1 Antibody PET Monitors Gemcitabine Therapy-Induced Modulation of Tumor PD-L1 Expression
Kyung-Ho Jung, Jin Won Park, Jin Hee Lee, Seung Hwan Moon, Young Seok Cho, and Kyung-Han Lee
Department of Nuclear Medicine, Samsung Medical Center, Seoul, Korea

First Experience Using 18F-Flubrobenguane PET Imaging in Patients with Suspected Pheochromocytoma or Paraganglioma
Lukas Kessler, Anna M. Schlitter, Markus Krönke, Alexander von Werder, Robert Tauber, Tobias Maurer, Simon Robinson, Cesare Orlandi, Michael Herz, Behrooz H. Yousefi, Stephan G. Nekolla, Markus Schwaiger, Matthias Eiber, and Christoph Rischpler
Department of Nuclear Medicine, University Hospital Essen, University of Duisburg–Essen, Essen, Germany

68 Ga-PSMA PET/CT for Primary Lymph Node and Distant Metastasis NM Staging of High-Risk Prostate Cancer
Søren Klingenberg, Mads R. Joachumsen, Benefice P. Ulhøi, Jacob Fredsøe, Karina D. Sørensen, Michael Borre, and Kirsten Bouchelouche
Department of Nuclear Medicine and PET Centre, Aarhus University Hospital, Aarhus, Denmark

Intraprostatic Tumor Segmentation on PSMA PET Images in Patients with Primary Prostate Cancer with a Convolutional Neural Network
Division of Medical Physics, Department of Radiation Oncology, Medical Center–University of Freiburg, Faculty of Medicine, University of Freiburg, Freiburg, Germany

A Microdosing Study with 99mTc-PHC-102 for the SPECT/CT Imaging of Primary and Metastatic Lesions in Renal Cell Carcinoma Patients
Oana C. Kulterer, Sarah Pfaff, Wolfgang Wadsak, Nathalie Garstka, Mesut Remzi, Chrysoula Vraka, Lukas Nics, Markus Mitterhauser, Franziska Bootz, Samuele Cazzamalli, Nikolaus Krall, Dario Neri, and Alexander R. Haug
Department of Biomedical Imaging and Image-Guided Therapy, Division of Nuclear Medicine, Medical University of Vienna, Vienna, Austria

Longitudinal Molecular Imaging of Progesterone Receptor Reveals Early Differential Response to Endocrine Therapy in Breast Cancer with an Activating ESR1 Mutation
Manoj Kumar, Kelley Salem, Justin J. Jeffery, Yongjun Yan, Aparna M. Mahajan, and Amy M. Fowler
Department of Radiology, University of Wisconsin School of Medicine and Public Health, Madison, Wisconsin

177 Lu-Labeled Albumin-Binder–Conjugated PSMA-Targeting Agents with Extremely High Tumor Uptake and Enhanced Tumor-to-Kidney Absorbed Dose Ratio
Hsiou-Ting Kuo, Kuo-Shyan Lin, Zhengxing Zhang, Carlos F. Uribe, Helen Merkens, Chengcheng Zhang, and François Bénard
Department of Molecular Oncology, BC Cancer, Vancouver, British Columbia, Canada

Simulation of Low-Dose Protocols for Myocardial Perfusion 82Rb Imaging
Martin Lyngby Lassen, Yuka Otaki, Paul Kavanagh, Robert J.H. Miller, Daniel S. Berman, and Piotr J. Slomka
Department of Imaging and Medicine, Cedars-Sinai Medical Center, Los Angeles, California

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Nondisplaceable Binding Is a Potential Confounding Factor in 
$^{11}$C-PBR28 Translocator Protein PET Studies
Neurobiology Research Unit, Copenhagen University Hospital Rigshospitalet, Copenhagen, Denmark

Peptide Receptor Radionuclide Therapy of Late-Stage Neuroendocrine Tumor Patients with Multiple Cycles of $^{177}$Lu-DOTA-EB-TATE
Qingxing Liu, Jie Zang, Huimin Sui, Jiakun Ren, Hua Guo, Hao Wang, Rongxi Wang, Orit Jacobson, Jingjing Zhang, Yuejuan Chengy, Zhaohui Zhuy, and Xiaoyuan Cheny
Department of Nuclear Medicine, State Key Laboratory of Complex Severe and Rare Diseases, Peking Union Medical College Hospital, Chinese Academy of Medical Science and Peking Union Medical College, Beijing, China

$^{64}$Cu-DOTATATE PET in Patients with Neuroendocrine Neoplasms: Prospective, Head-to-Head Comparison of Imaging at 1 Hour and 3 Hours After Injection
Mathias Loft, Esben A. Carlsen, Camilla B. Johnbeck, Helle H. Johannesen, Tina Binderup, Andreas Pfeifer, Jann Mortensen, Peter Oturai, Annika Loft, Anne K. Berthelsen, Seppo W. Langer, Ulrich Knigge, and Andreas Kjaer
Department of Clinical Physiology, Nuclear Medicine, and PET and Cluster for Molecular Imaging, Department of Biomedical Sciences, Rigshospitalet and University of Copenhagen, Copenhagen, Denmark

Cyclotron Production and Separation of Scandium Radionuclides from Natural Titanium Metal and Titanium Dioxide Targets
C. Shaun Loveless, Jose R. Blanco, George L. Diehl III, Rawdah T. Elbahrawi, Tommaso S. Carzaniga, Saverio Braccini, and Suzanne E. Lapi
Department of Radiology, University of Alabama at Birmingham, Birmingham, Alabama

Imaging Immunometabolism in Atherosclerosis
Philip Z. Mannes and Sina Tavakoli
Department of Radiology, University of Pittsburgh, Pittsburgh, Pennsylvania

Repurposing $^{99m}$Tc-Mebrofenin as a Probe for Molecular Imaging of Hepatocyte Transporters
Solène Marie, Irene Hernández-Lozano, Oliver Langer, and Nicolas Tourner
Laboratoire d’Imgmation Biomédicale Multimodale, BioMaps, Université Paris-Saclay, CEA, CNRS, INSERM, Service Hospitalier Frédéric Joliot, Orsay, France

Distinguishing Primary Lateral Sclerosis from Parkinsonian Syndromes with the Help of Advanced Imaging
Pegah Masrori, Donatienne Van Weehaeghe, Koen Van Laere, and Philip Van Damme
Neuromuscular Reference Centre, Department of Neurology, University Hospitals Leuven, Leuven, Belgium

Diagnostic Value, Oncologic Outcomes, and Safety Profile of Image-Guided Surgery Technologies During Robot-Assisted Lymph Node Dissection with Sentinel Node Biopsy for Prostate Cancer
Elio Mazzone, Paolo Dell’Oglio, Nikos Grivas, Esther Wit, Maarten Donswijk, Alberto Briganti, Fijis Van Leeuwen, and Henk van der Poel
Department of Urology and Division of Experimental Oncology, Urological Research Institute, IRCCS San Raffaele Scientific Institute, Milan, Italy

Biochemical Persistence of Prostate-Specific Antigen After Robot-Assisted Laparoscopic Radical Prostatectomy: Tumor Localizations Using PSMA PET/CT Imaging
Dennie Meijer, Maarten L. Donswijk, Yves J.L. Bodar, Pim J. van Leeuwen, Henk G. van der Poel, Wouter V. Vogel, Jakko A. Nieuwenhuijzen, N. Harry Hendrikse, Daniela E. Oprea-Lager, and André N. Vis
Department of Urology, Amsterdam University Medical Center, VU University, Prostate Cancer Network Netherlands, Amsterdam, The Netherlands

Assessing Response to $^{177}$Lu-PSMA Radioligand Therapy Using Modified PSMA PET Progression Criteria
Kerstin Michalski, Claudius Klein, Tonio Brüggemann, Philipp T. Meyer, Cordula A. Jilg, and Juri Ruf
Department of Nuclear Medicine, Faculty of Medicine, Medical Center, University of Freiburg, Freiburg, Germany

(*contributed equally)
Comparison of CD38-Targeted α- Versus β-Radionuclide Therapy of Disseminated Multiple Myeloma in an Animal Model
Megan Minnix, Vikram Adhikarla, Enrico Caserta, Erasmus Poku, Russell Rockne, John E. Shively, and Flavia Pichiorri
Department of Molecular Imaging and Therapy, Beckman Research Institute, City of Hope, Duarte, California

TAG-72–Targeted α-Radionuclide Therapy of Ovarian Cancer Using $^{225}$Ac-Labeled DOTAylated-huCC49 Antibody
Megan Minnix, Lin Li, Paul J. Yazaki, Aaron D. Miller, Junie Chea, Erasmus Poku, An Liu, Jeffrey Y.C. Wong, Russell C. Rockne, David Colcher, and John E. Shively
Department of Molecular Imaging and Therapy, Beckman Research Institute, City of Hope, Duarte, California

Determining the Axillary Nodal Status with 4 Current Imaging Modalities, Including 18 F-FDG PET/MRI, in Newly Diagnosed Breast Cancer: A Comparative Study Using Histopathology as the Reference Standard
Janna Morawitz, Nils-Martin Bruckmann, Frederic Dietzel, Tim Ullrich, Ann-Kathrin Bittner, Oliver Hoffmann, Svjetlana Mohrmann, Lena Häberle, Marc Ingenwerth, Lale Umutlu, Wolfgang Peter Fendler, Tanja Fehm, Ken Herrmann, Gerald Antoch, Lino Morris Sawicki, and Julian Kirchner
Department of Diagnostic and Interventional Radiology, University of Dusseldorf, Dusseldorf, Germany

Prognostic Value of Bone Marrow Metabolism on Pretreatment 18 F-FDG PET/CT in Patients with Metastatic Melanoma Treated with Anti-PD-1 Therapy
Ryusuke Nakamoto, Lisa C. Zaba, Tie Liang, Sunil Arani Reddy, Guido Davidzon, Carina Mari Aparici, Judy Nguyen, Farshad Moradi, Andrei Iagaru, and Benjamin Lewis Franc
Department of Radiology, Stanford University, Stanford, California

A Noninvasive Method for Quantifying Cerebral Metabolic Rate of Oxygen by Hybrid PET/MRI: Validation in a Porcine Model
Lucas Narciso, Tracy Ssali, Linshan Liu, Heather Biernaski, John Butler, Laura Morrison, Jennifer Hadway, Jeffrey Corsaut, Justin W. Hicks, Michael C. Langham, Felix W. Wehrli, Hidehiro Iida, and Keith St Lawrence
Lawson Health Research Institute, London, Ontario, Canada

Repeatability of Radiomic Features of Brown Adipose Tissue
Aria Nazeri, John P. Crandall, Tyler J. Fraum, and Richard L. Wahl
Mallinckrodt Institute of Radiology, Washington University School of Medicine, St. Louis, Missouri

Urokinase-Type Plasminogen Activator Receptor (uPAR) PET/MRI of Prostate Cancer for Noninvasive Evaluation of Aggressiveness: Comparison with Gleason Score in a Prospective Phase 2 Clinical Trial
Marie Øbro Fosbøl, Sorel Kurbegovic, Helle Hjorth Johannesen, Martin Andreas Røder, Adam Espe Hansen, Jann Mortensen, Annika Loft, Peter Meidahl Petersen, Jacob Madsen, Klaus Brasso, and Andreas Kjaer
Department of Clinical Physiology, Nuclear Medicine & PET and Cluster for Molecular Imaging, Rigshospitalet and University of Copenhagen, Copenhagen, Denmark

Quantitative $^{68}$Ga-DOTATATE PET/CT Parameters for the Prediction of Therapy Response in Patients with Progressive Metastatic Neuroendocrine Tumors Treated with $^{177}$Lu-DOTATATE
Claudia Ortega, Rebecca K.S. Wong, Josh Schaefferkoeetter, Patrick Veit-Haibach, Sten Mynheeraug, Rosalyn Juergens, David Laidley, Reut Anconina, Amy Liu, and Ur Metser
Joint Department of Medical Imaging, University Health Network, Mount Sinai Hospital and Women's College Hospital, University of Toronto, Toronto, Ontario, Canada

Immuno-PET Detects Changes in Multi-RTK Tumor Cell Expression Levels in Response to Targeted Kinase Inhibition
Patricia M.R. Pereira, Jalen Norfleet, Jason S. Lewis, and Freddy E. Escorcia
Department of Radiology, Memorial Sloan Kettering Cancer Center, New York, New York

Molecular Imaging: PARP-1 and Beyond
Laura N. Puentes, Mehran Makvandi, and Robert H. Mach
Department of Systems Pharmacology and Translational Therapeutics, University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania

Optoacoustic Imaging of Glucagon-like Peptide-1 Receptor with a Near-Infrared Exendin-4 Analog
Sheryl Roberts, Eshita Khera, Crystal Choi, Tejas Navaratna, Jan Grimm, Greg M. Thurer, and Thomas Reiner
Department of Radiology, Memorial Sloan Kettering Cancer Center, New York, New York

(*contributed equally)
Impact of ⁶⁸Ga-FAPI PET/CT Imaging on the Therapeutic Management of Primary and Recurrent Pancreatic Ductal Adenocarcinomas
Manuel Röhrich, Patrick Naumann, Frederik L. Giesel, Peter L. Choyke, Fabian Staudinger, Annika Wefers, Dawn P. Liew, Clemens Kratochwil, Hendrik Rathke, Jakob Liermann, Klaus Herfarth, Dirk Jäger, Jürgen Debus, Uwe Haberkorn, Matthias Lang, and Stefan A. Koerber
Department of Nuclear Medicine, Heidelberg University Hospital, Heidelberg, Germany

Dopaminergic Nigrostriatal Connectivity in Early Parkinson Disease: In Vivo Neuroimaging Study of ¹³C-DTBZ PET Combined with Correlational Tractography
Carlos A. Sanchez-Catasus, Nicolaas I. Bohnen, Fang-Cheng Yeh, Nicholas D’Cruz, Prabesh Kanel, and Martijn L.T.M. Müller
Division of Nuclear Medicine, Department of Radiology, University of Michigan Health System, Ann Arbor, Michigan
*J Nucl Med 2021; 62:545–552*

Head-to-Head Comparison of ⁶⁸Ga-Prostate-Specific Membrane Antigen PET/CT and Ferumoxtran-10–Enhanced MRI for the Diagnosis of Lymph Node Metastases in Prostate Cancer Patients
Melline G.M. Schilham, Patrik Zamecnik, Bastiaan M. Privé, Bas Israel, Mark Rijpkema, Tom Scheenen, Jelle O. Barentsz, James Nagarajah, and Martin Gotthardt
Department of Medical Imaging, Nuclear Medicine, Radboud University Medical Centre, Nijmegen, The Netherlands
*J Nucl Med 2021; 62:1258–1263*

Minimal Extrathyroidal Extension in Papillary Thyroid Microcarcinoma Is an Independent Risk Factor for Relapse Through Lymph Node and Distant Metastases
Robert Seifert, Michael Schäfers, Barbara Heitplatz, Laura Kerschke, Burkhard Riemann, and Benjamin Noto
Department of Nuclear Medicine, University Hospital Münster, Münster, Germany
*J Nucl Med 2021; 62:1702–1709*

Fluorescence-Guided Visualization of Soft-Tissue Sarcomas by Targeting Vascular Endothelial Growth Factor A: A Phase 1 Single-Center Clinical Trial
Pieter J. Steinkamp, Bobby K. Pranger, Mei-Fang Li, Matthijs D. Linssen, Floris J. Voskuil, Lukas B. Been, Barbara L. van Leeuwen, Albert J.H. Suurmeijer, Wouter B. Nagengast, Schelto Kruijff, Robert J. van Ginkel, and Gooitzen M. van Dam
Department of Surgery, University Medical Center Groningen, University of Groningen, Groningen, The Netherlands

Mesothelin/CD3 Half-Life–Extended Bispecific T-Cell Engager Molecule Shows Specific Tumor Uptake and Distributes to Mesothelin and CD3-Expressing Tissues
Frans V. Suurs, Grit Lorenczewski, Julie M. Baillis, Sabine Stienen, Matthias Friedrich, Fei Lee, Bert van der Vegt, Elisabeth G.E. de Vries, Derk Jan A. de Groot, and Marjolijn N. Lub-de Hooge
Department of Medical Oncology, University Medical Center Groningen, Groningen, The Netherlands
*J Nucl Med 2021; 62:1797–1804*

Relationship Between Tau and Cognition in the Evolution of Alzheimer’s Disease: New Insights from Tau PET
Jeremy A. Tanner and Gil D. Rabinovici
Memory and Aging Center, Department of Neurology, University of California San Francisco, San Francisco, California
*J Nucl Med 2021; 62:612–613*

Voxelwise and Patientwise Correlation of ¹⁸F-FDOPA PET, Relative Cerebral Blood Volume, and Apparent Diffusion Coefficient in Treatment-Naïve Diffuse Gliomas with Different Molecular Subtypes
UCLA Brain Tumor Imaging Laboratory, Center for Computer Vision and Imaging Biomarkers, David Geffen School of Medicine, UCLA, Los Angeles, California

Determining Amyloid-β Positivity Using ¹⁸F-AZD4694 PET Imaging
Translational Neuroimaging Laboratory, McGill University Research Centre for Studies in Aging, Douglas Hospital, McGill University, Montreal, Quebec, Canada

Liver Enzyme Elevation After ¹⁷⁷Lu-PSMA Radioligand Therapy for Metastasized Castration-Resistant Prostate Cancer
Hannes Treiber, Alexander König, Albrecht Neesse, Annika Richter, Carsten Oliver Sahlimann, and Arne Strauss
Department of Hematology and Medical Oncology, University Medical Center Göttingen, Göttingen, Germany
Surveillance of Clinically Complete Responders Using Serial 18F-FDG PET/CT Scans in Patients with Esophageal Cancer After Neoadjuvant Chemoradiotherapy
Maria J. Valkema, Berend J. van der Wilk, Ben M. Eyck, Bas P.L. Wijnhoven, Manon C.W. Spaander, Michail Doukas, Sjoerd M. Lagarde, Wendy M.J. Schreurs, Mark J. Roef, J. Jan B. van Lanschot, and Roelf Valkema
Department of Surgery, Erasmus University Medical Center, Rotterdam, The Netherlands

Assessment of Bone Lesions with 18F-FDG PET Compared with 99mTc Bone Scintigraphy Leads to Clinically Relevant Differences in Metastatic Breast Cancer Management
Department of Medical Oncology, University Medical Center Groningen, University of Groningen, Groningen, The Netherlands

A Model System to Explore the Detection Limits of Antibody-Based Immuno-SPECT Imaging of Exclusively Intranuclear Epitopes
Mathew Veal, Gemma Dias, Veerle Kersemans, Deborah Sneddon, Stephen Faulkner, and Bart Cornelissen
Medical Research Council Oxford Institute for Radiation Oncology, Department of Oncology, University of Oxford, Oxford, United Kingdom

First-in-Humans Study of 68Ga-DOTA-Siglec-9, a PET Ligand Targeting Vascular Adhesion Protein 1
Riikka Viitanen, Olli Moisio, Petteri Lankinen, Xianguo Li, Mikko Koivumäki, Sami Saalamo, Tuula Tolvanen, Kirsi Taimen, Markku Mali, Ilpo Koskivirta, Vesa Oikonen, Helena Virtanen, Kristiina Santalahhti, Anu Autio, Antti Saraste, Laura Pirilä, Pirjo Nuutila, Juhani Knutti, Sirpa Jalkanen, and Anne Roivainen
Turku PET Centre, University of Turku, Turku, Finland
J Nucl Med 2021; 62:577–583

Kinetic Modeling of 18F-(2S, 4R)-4-Fluoroglutamine in Mouse Models of Breast Cancer to Estimate Glutamine Pool Size as an Indicator of Tumor Glutamine Metabolism
Varsha Viswanath, Rong Zhou, Hsiaoju Lee, Shihong Li, Abigail Cragin, Robert K. Doot, David A. Mankoff, and Austin R. Pantel
Department of Radiology, University of Pennsylvania, Philadelphia, Pennsylvania

Metallofluorocarbon Nanoemulsion for Inflammatory Macrophage Detection via PET and MRI
Chao Wang, Benjamin I. Leach, Deanne Lister, Stephen R. Adams, Hongyan Xu, Carl Hoh, Patrick McConville, Jing Zhang, Karen Messer, and Eric T. Ahrens
Department of Radiology, University of California San Diego, La Jolla, California

PSMA-Ligand PET for Early Castration-Resistant Prostate Cancer: A Retrospective Single-Center Study
Manuel Weber, Claudia Kurek, Francesco Barbato, Matthias Eiber, Tobias Maurer, Michael Nader, Boris Hadachik, Viktor Grünwald, Ken Herrmann, Axel Wetter, and Wolfgang P. Fendler
Department of Nuclear Medicine, University of Duisburg–Essen, and German Cancer Consortium–University Hospital Essen, Essen, Germany

Bowel Obstruction as a Complication of Peptide Receptor Radionuclide Therapy
Christopher E. Wee, Ayca Dundar, Rachel A. Eiring, Mohamed Badawy, Timothy J. Hobday, A. Tuba Kendi, Annie T. Packard, and Thorvandur R. Halfdanarson
Mayo Clinic, Rochester, Minnesota

Lymph Node Staging with a Combined Protocol of 18F-FDG PET/MRI and Sentinel Node SPECT/CT: A Prospective Study in Patients with FIGO I/II Cervical Carcinoma
Matthias Weissinger, Florin-Andrei Taran, Sergios Gatisidis, Stefan Kimmoss, Konstantin Nikolaou, Samine Sahbai, Christian la Fougeré, Sara Yvonne Brucker, and Helmut Dittmann
Department of Nuclear Medicine and Clinical Molecular Imaging, University Hospital Tuebingen, Tuebingen, Germany

High Interobserver Agreement for the Standardized Reporting System SSTR-RADS 1.0 on Somatostatin Receptor PET/CT
Rudolf A. Werner, Thorsten Derlin, Steven P. Rowe, Lena Bundschuh, Gabriel T. Sheikh, Martin G. Pomper, Sebastian Schulz, Takahiro Higuchi, Andreas K. Buck, Frank M. Bengel, Ralph A. Bundschuh, and Constantin Lapa
Department of Nuclear Medicine, Hannover Medical School, Hannover, Germany
2022 Alavi–Mandell Awards FOR JNM ARTICLES PUBLISHED IN 2021

Assessment and Comparison of $^{18}$F-Fluorocholine PET and $^{99m}$Tc-Sestamibi Scans in Identifying Parathyroid Adenomas: A Metaanalysis
Julia Whitman, Isabel E. Allen, Emily K. Bergsland, Insoo Suh, and Thomas A. Hope
Division of Hematology/Oncology, Department of Medicine, University of California San Francisco, San Francisco, California

Direct Attenuation Correction Using Deep Learning for Cardiac SPECT: A Feasibility Study
Jaewon Yang, Luyao Shi, Rui Wang, Edward J. Miller, Albert J. Sinusas, Chi Liu, Grant T. Gullberg, and Youngho Seo
Physics Research Laboratory, Department of Radiology and Biomedical Imaging, University of California San Francisco, San Francisco, California

First Clinical Results for PSMA-Targeted $\alpha$-Therapy Using $^{225}$Ac-PSMA-I&T in Advanced-mCRPC Patients
Mathias Johannes Zacherl, Franz Josef Gildehaus, Lena Mittlmeier, Guido Böning, Astrid Gosewisch, Vera Wenter, Marcus Unterrainer, Nina Schmidt-Hegemann, Claus Belka, Alexander Kretschmer, Jozefina Casuscelli, Christian G. Stief, Marcus Unterrainer, Peter Bartenstein, Andrei Todica, and Harun Ilhan
Department of Nuclear Medicine, University Hospital, LMU Munich, Munich, Germany

Ferronostics: Measuring Tumoral Ferrous Iron with PET to Predict Sensitivity to Iron-Targeted Cancer Therapies
Ning Zhao, Yangjie Huang, Yung-hua Wang, Ryan K. Muir, Ying-Chu Chen, Junnian Wei, Nima Hooshdaran, Pavithra Viswanath, Youngho Seo, Davide Ruggero, Adam R. Renslo, and Michael J. Evans
Department of Radiology and Biomedical Imaging, University of California, San Francisco, San Francisco, California

Site-Specific and Residualizing Linker for $^{18}$F Labeling with Enhanced Renal Clearance: Application to an Anti-HER2 Single-Domain Antibody Fragment
Zhengyuan Zhou, Rebecca Meshaw, Michael R. Zalutsky, and Ganesan Vaidyanathan
Department of Radiology, Duke University Medical Center, Durham, North Carolina
SNMMI Annual Meeting Awards

The SNMMI Annual Meeting provides the opportunity to present and publish innovative scientific investigations to a global audience of medical imaging professionals. These awards recognize the top research presented at the SNMMI 2022 Annual Meeting.

Henry N. Wagner, Jr., MD, Best Paper of the Year Award
For research presenting results that not only emphasized the promise and success of targeted α therapies but also reflected growing global interest in these life-extending treatments:

**A Phase II clinical study on 225Ac-DOTATATE Therapy in Advanced Stage Gastroenteropancreatic Neuroendocrine Tumor Patients**
*Journal of Nuclear Medicine* May 2021, 62 (Supplement 1)
Chandrasekhar Bal, Sanjana Ballal, and Madhav Yadav
All India Institute of Medical Sciences (New Delhi)

ERF/SNMMI Best COVID-19 Abstract (Physician/Scientist) Award
A prospective study to investigate the implementation of semiquantitative inflammatory load in post-COVID-19 lung disease (PCLD) to strategize therapy
*Presenting Author: Yogita Khandelwal*
SGPGIMS, Lucknow, India

ERF/SNMMI-TS Best COVID-19 Abstract (Technologist)
Developed a model for remote installation of Radiochemistry Synthesiser; Trasis – AllInOne: One Step forward to beat Covid-19 pandemic
*Presenting Author: Madhusudan Vyas, NMT*
Unitec Institute of Technology, New Zealand

Posters
1st, 2nd and 3rd place winners are determined from the top 10 candidates from each scientific track based on the visual appearance/quality of their poster, quality of content and the original scientific contribution of their poster or ePoster:

**Cardiovascular**

1st Place
Cardiac Molecular PET-Imaging of Fibroblast Activation in Patients with Aortic Stenosis Undergoing Transcatheter Aortic Valve Implantation (TAVI)
*Presenting Author: Johanna Diekmann*

2nd Place
Early Cardiac Gated Blood Pool Imaging with “Hotspot” Agent Provides Simultaneous Assessment of Left Ventricular Function in an Ischemia-Reperfusion Model
*Presenting Author: Stephanie Thorn*

3rd Place
Development and External Validation of Ischemia Risk Scores
*Presenting Author: Robert Miller*

**Educational Exhibits**

1st Place
18F-FDG PET/CT imaging features of parotid lesions; Case based pictorial review and its multi-modality correlation
*Presenting Author: Pokhraj Suthar*

2nd Place
Cue up the video: Visual learning for efficient orientation of trainees to their nuclear medicine rotations
*Presenting Author: Harry Schroeder*

3rd Place
Renal scintigraphy following kidney transplantation – ATN, Rejection, and More
*Presenting Author: Hamideh Ale Ali*

**General Clinical Specialties**

1st Place
Liver and Brain Levels of 11β-hydroxysteroid Dehydrogenase Type 1 Enzyme in Obesity: Preliminary Results from PET Imaging Studies
*Presenting Author: Jason Bini*

2nd Place
Quantitative Analysis of 18F-NaF-PET/CT Imaging: Evaluation of Denosumab Treatment in Fibrous Dysplasia
*Presenting Author: Sriram Paravastu*

3rd Place
99mTc-Macroaggregated Albumin (MAA) stability when used in the SNMMI Procedure Guideline for Adult Solid-Meal Gastric-Emptying scintigraphy
*Presenting Author: Jennifer Lawrence*

**Molecular Targeting Probes-Radioactive & Nonradioactive**

1st Place
Radiopharmaceutical Production of [Pb-203]VMT-α-NET for Clinical Use
*Presenting Author: Dirk Mueller*

2nd Place
Development and preliminary evaluations of novel PET tracers for imaging TARP γ-8 receptors
*Presenting Author: Qingzhen Yu*

3rd Place
Development of a novel LAT1-selective PET probe for improved tumor retention
*Presenting Author: Sadahiro Naka*

**Neurosciences**

1st Place
Cellular specificity assessment and longitudinal PET study in a transgenic mouse model of a 18F-labelled Sulforhodamine 101 in astrocytosis processes in Alzheimer’s Disease
*Presenting Author: Kevin Zirbesegger*

2nd Place
Small brain nuclei identification using helmet-type positron emission tomography in healthy volunteers
*Presenting Author: Miwako Takahashi*
Young Investigator Awards

Each year the SNMMI sponsors the Young Investigator Award symposium and competition in association with several SNMMI Councils and Centers of Excellence for the best scientific abstracts in various specialties within the field of nuclear medicine. The following winners were selected for their excellence in oral presentations:

**Brain Imaging Council Young Investigator Awards**

1st Place
**Evaluation of Tau Radiotracers in Chronic Traumatic Encephalopathy**
*Presenting Author: Cassis Varlow, B. Sc.*
*University of Toronto, ON Canada*

2nd Place
Investigating brain astrocyte status during abstinence in alcohol use disorder: a study using the positron emission tomography radiotracer for monoamine oxidase B, [C-11]SL25.1188
*Presenting Author: Laura Best*

3rd Place
Evaluation of longitudinal changes in reference region uptake and extracerebral signal of [18F]MK-6240 PET
*Presenting Author: Masatoshi Hotta*

**Cardiovascular Council Young Investigator Award Winners**

**BASIC SCIENCE/PRECLINICAL:**

1st Place
**Evaluation of 68Ga-MHLL2 as a novel compound to assess fibroblast activation after myocardial infarction in mice**
*Presenting Author: Maday Fernandez Mayola*
*Hannover Medical School, NI Germany*

1st Place
Impact of Acute Myocardial Infarction on Neuroinflammation and Alzheimer's Disease Pathology in a Transgenic Mouse Model
*Presenting Author: Kelsey Lolatte*
*Hannover Medical School, NI Germany*

**Cardiovascular Council Young Investigator Award Winners**

**CLINICAL:**

1st Place
Risk stratification and therapy response values of 11C-PIB positron emission tomography for amyloid light-chain amyloidosis
*Presenting Author: Xuezhu Wang, MD*
*Peking Union Medical College Hospital, Beijing, China*

**Physics, Instrumentation, and Data Sciences Council Young Investigator Awards**

1st Place
Radiomic decision maps reveal patterns discriminating between glioma progression and radiation-induced necrosis in static and dual time [18F]-FDOPA PET
*Presenting Author: Thibault Escobar*
*Translational Imaging Laboratory in Oncology (U1288), Paris, France*
SNMMI Annual Meeting Awards

Physics, Instrumentation, and Data Sciences Council Young Investigator Awards

2nd Place
High Resolution TOF-DOI Prism-PET Brain Scanner: Experimental Results From The First Prototype Scanner
Presenting Author: Xinjie Zeng
Stony Brook University, NY United States

3rd Place
DuDoSS: Deep-Learning-Based Dual-Domain Sinogram Synthesis from Sparsely Sampled Projections of Cardiac SPECT
Presenting Author: Xiongchao Chen
Yale-New Haven Medical Center, CT United States

Radiopharmaceutical Sciences Council Young Investigator Awards

1st Place
Cyclotron produced radio-manganese as a potential radiotracer for identifying neuroinflammation in inflammatory pain
Presenting Author: Kendall Barrett
University of Wisconsin-Madison, WI United States

2nd Place
Quinazoline-2-carboxamides as Selective Matrix Metalloproteinase-13 Radiotracers for Imaging Atherosclerosis
Presenting Author: Ariel Buchler
University of Ottawa Heart Institute, ON Canada

3rd Place
Assessment of the two enantiomers of a metabolically stable radiotracer for imaging synaptic vesicle protein 2A in rat and monkey brains
Presenting Author: Chao Zheng
Yale School of Medicine, CT United States

CIC Walter Wolf Young Investigator Award

This award recognizes a young investigator for originality, scientific methodology, and overall contribution to molecular imaging or therapy through original research showing the importance and value of correlative imaging in all fields of medicine. The SNMMI Correlative Imaging Council established the Walter Wolf Young Investigator Award in 2006 in honor of Walter Wolf, PhD, past president of the Correlative Imaging Council and leader in the field of pharmacokinetic imaging and drug development.

Abstract: Total-body PET/CT using half-dose 18F-FDG in pediatric malignancies
Wanqi Chen

PIC Majd-Gilday Young Investigator Award

This award is given to young scientists for outstanding research contributions to the field of pediatric nuclear medicine. The PIC Majd-Gilday YIA award was developed to recognize two pioneers in the pediatric imaging field who have made enormous scientific contributions to our subspecialty of pediatric nuclear medicine: Dr. Massoud Majd and Dr. David Gilday.

Abstract: Feasibility of Reduced Count Acquisition of Whole Body 18F-FDG PET in Children and Young Adults Imaged with a Digital PET Scanner
Vinicius Alves, MD

Center for Molecular Imaging Innovation and Translation Young Investigator Awards

1st Place
A humanized anti-benzyl-DOTA single chain variable fragment for in vivo tracking of CD19 CART cells
Presenting Author: Laura Eibler

2nd Place
Preclinical evaluation of [11C]ROCK201 for imaging rho-associated protein kinase 2 in brain
Presenting Author: Chao Zheng
Yale School of Medicine, CT United States

3rd Place
PET imaging of a modified anti-PD-L1 probe 68Ga-BMS-986192 in immunocompetent mice and non-human primates
Presenting Author: Huimin Zhou
Wuhan Tongji Hospital, Wuhan, China

Therapy Center of Excellence Young Investigator Awards

1st Place
Time-savings analysis of total tumor burden quantification on 68Ga-PSMA-11 PET/CT with deep learning auto-segmentation of organs for automatic physiological uptake removal in men with metastatic castration-resistant prostate cancer (mCRPC)
Presenting Author: James Patrick Buteau
Peter MacCallum Cancer Center, Victoria, Australia

2nd Place
The effect of long-acting somatostatin analogues on the uptake of [177Lu]Lu-HA-DOTATATE
Presenting Author: Else Aalbersberg
Netherlands Cancer Institute, Amsterdam, Netherlands

3rd Place
Clinical experience with 225Ac-PSMA-617 TAT provided on an individual patient basis: a retrospective single-center multi-ethnic analysis of 233 patients
Presenting Author: Hendrick Rathke, MD
Inselspital Bern, Bern, Switzerland
Early Career Professionals Abstract Award Winners

BASIC SCIENCE:

1st Place
A humanized anti-benzyl-DOTA single chain variable fragment for in vivo tracking of CD19 CART cells
Presenting Author: Laura Eibler
Memorial Sloan Kettering Cancer Center, NY United States

2nd Place
Quinazoline-2-carboxamides as Selective Matrix Metalloproteinase-13 Radiotracers for Imaging Atherosclerosis
Presenting Author: Ariel Buchler
University of Ottawa Heart Institute, ON Canada

3rd Place
Cyclotron produced radio-manganese as a potential radiotracer for identifying neuroinflammation in inflammatory pain
Presenting Author: Kendall Barrett
University of Wisconsin-Madison, WI United States

Early Career Professionals Abstract Award Winners

CLINICAL:

1st Place
Assessing synaptic density in amyotrophic lateral sclerosis with 18F-SynVesT-1 positron emission tomography imaging
Presenting Author: Yongxing Tang
Department of Nuclear Medicine, Xiangya Hospital, Central South University, Hunan, China

2nd Place
Prospective phase II trial of prognostication by [68Ga]Ga-NODAGA-[E[c(RGDyK)]2 PET/CT for integrin alpha v beta 3 imaging in patients with neuroendocrine neoplasms
Presenting Author: Esben Carlsen
Rigshospitalet, Copenhagen, Denmark

3rd Place
An investigation of the "brain-GI" relationships in Parkinson's disease by imaging dopamine transporter in dynamic 11C-CFT total-body PET/CT
Presenting Author: Mei Xin
Renji Hospital, School of Medicine, Shanghai Jiao Tong University, Shanghai, China

3rd Place
A prospective study to investigate the implementation of semiquantitative inflammatory load in post-COVID-19 lung disease (PCLD) to strategize therapy
Presenting Author: Yogita Khandelwal
Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow, India

Technologist Abstract and Poster Awards

Technologist Best Abstract Award Winners

1st Place
Compounding of [177Lu]Lu-PSMA-I&T using USP grade solvents in the radiopharmacy: experience in Quebec City
Presenting Author: Nancy Lafreniere, CNMT
Chu de Quebec, Canada

2nd Place
Whole Body and SPECT/CT Imaging for Dosimetry of 177Lu-labeled Radiopharmaceutical Therapies: A Technologist's Perspective
Presenting Author: Natalie Jung; Physician (AMA), Canada

3rd Place
Reducing PET Technologists Radiation Exposure One Autoinjector at a Time
Presenting Author: Nadine Colpo, RTNM, PET; BC Cancer - Vancouver, Canada

SNMNI-TS/Cardiovascular Council Best Poster Awards

1st Place
Quantitative Perfusion SPECT (QPS) Analysis Using Both Male and Female Normal Databases in an Obese Male Patient: A Case Study
Presenting Author: Sarah A. Frye, MBA, CNMT, PET, CCRP
Saint Louis University, Saint Louis, MO

2nd Place
The application of compressed sensing reconstruction for myocardial perfusion image shortens the acquisition time: a simulation study
Presenting Author: Mitsuha Fukami; Kyushu University, Japan

SNMNI-TS/PET CoE Technologist Best PET Abstract Award
Deep learning denoising technique enables low-injected-dose whole-body 18F-FDG PET/CT on lymphoma patients - A feasibility study Average
Presenting Author: Runze Wu, PhD; Tsinghua University, China

SNMNI-TS/Therapy CoE Technologist Best Therapy Abstract Award
Administration of Lutetium 177 PSMA therapy in an outpatient nuclear medicine department, a technologist's perspective
Presenting Author: Crystal Botkin, PhD, MPH, CNMT, PET, FSNMNI-TS
Saint Louis University, Festus, MO

SNMNI-TS Technologist Poster Awards

1st Place
Digital PET/CT images can be reconstructed more efficiently using a network designed with deep learning
Presenting Author: Yuya Shirakawa; Kyorin University Hospital, Japan

2nd Place
Quantitative evaluation of cardiac amyloidosis with 99mTc-pyrophosphate scintigraphy
Presenting Author: Noritake Matsuda; Tokushima University, Japan

3rd Place
Image characteristics of brain perfusion SPECT/CT using a new multi-focal collimator: Comparison with conventional SPECT with LEHR collimator
Presenting Author: Takayuki Shibutani; Kanazawa University, Japan
Technologist Student Abstract Award Winners

1st Place
Analysis of Prostate Cancer Imaging Agents: F-18 Fluciclovine vs. F-18 PSMA
Presenting Author: Jonathon Garrett; Vanderbilt University Medical Center, Brentwood, TN

2nd Place
A more clinically relevant assessment of spatial resolution of a PET-CT system
Presenting Author: Kimberly Cornejo; Northwestern Memorial Hospital - School of Nuclear Medicine, Chicago, IL

3rd Place
Tagging Efficiency of Radiolabeled Eggs with Technetium 99m Macroaggregated Albumin Compare to Technetium 99m Sulfur Colloid for Gastric Emptying Studies
Presenting Author: Hayley Bergner; University of Oklahoma Health Sciences Center, Adair, OK

Technologist Student Abstract Award Winners
The difference in tagging efficiency of unfiltered Tc99m-sulfur colloid and filtered Tc99m-sulfur colloid to egg beaters.
Presenting Author: Kori Wright; Student (Non-Credit), Shirley, IN

International Best Abstract Award Winners
The International Best Abstract Award is given to the highest scoring accepted abstract from each country:

Australia
Real-World Lesion and Renal Dosimetry for Peptide Receptor Radionuclide Therapy (PRRT)
Price Jackson

Austria
Predictive value and accuracy of PET modified response criteria for immunotherapy in patients with advanced melanoma
Mohsen Beheshti

Azerbaijan
Head to head comparison of 68Ga-FAPI-46 PET/CT and 18-FDG PET/CT in breast carcinoma staging: a clinical trial update from Azerbaijan
Fuad Novruzov

Belgium
Preclinical endoradiotherapy using a radiolabeled single-domain antibody targeting Fibroblast Activation Protein
Matthias D’Huyvetter

Brazil
Radionuclides used in Nuclear Therapeutic Medicine: a brief history, properties and main relevant studies of radionuclides with mass number less than 100
Nathalia Minozzo

Canada
Effects of replacing Glu in the PSMA-targeting Lys-urea-Glu pharmacophore of [68Ga]Ga-HTK03041 with a close derivative on the uptake of tumor xenograft, kidneys and salivary glands
Kuo-Shyan Lin

China
Non-invasive Visualization of Liver Fibrosis with Gallium-68-labeled Fibroblast Activation Protein Inhibitor
Yangmeihui Song

Denmark
Prospective phase II trial of prognostication by [68Ga]Ga-NODAGA-E[c(RGDyK)]2 PET/CT for integrin alpha v beta 3 imaging in patients with neuroendocrine neoplasms
Esben Carlsen

Egypt
The value of 18F-FDG PET/CT in detection of osteomyelitis in patients with stage IV pressure ulcers
HATEM NASR

France
Phase III study of [18F]F-PSMA-1007 versus [18F]F-fluorocholine PET to compare the detection rate of prostate cancer lesions in patients with biochemical recurrence after previous definitive treatment for localized prostate cancer
Mathieu Gauthe

Germany
Multi-cycle dosimetry of [177Lu]Lu-PSMA-617 for the treatment of metastatic castration-resistant prostate cancer: results from the VISION trial sub-study
Ken Herrmann

Greece
The role of Lymphoscintigraphy in Breast Cancer Recurrence
John Koutsikos

Hong Kong
Choice of Tyrosine Kinase Inhibitor (TKI) or Immune Check-point Inhibitor guided by dual-tracer (11C-acetate and 18F-FDG) PET/CT improves the progression-free survival in patients with advanced or metastatic HCC
Garrett Ho

India
A Phase II clinical study on 225Ac-DOTATATE Therapy in Advanced Stage Gastroenteropancreatic Neuroendocrine Tumor Patients
Chandrasekhar Bal

Iran
In vivo assessment of CXCR4 receptor expression in High-grade Glioma using [68 Ga] Ga-Pentixafor PET/CT
Hessamoddin Roustaei
Ireland
Feasibility of standard and generalized Patlak Models for dynamic imaging of multiple organs using the uEXPLORER PET scanner
Fengyun Gu

Israel
Can absorbed doses by organs and tumors after PRRT be predicted from the pre-therapeutic 68Ga-DOTATATE PET/CT study?
CHICHEPORTICHE ALEXANDRE

Italy
Imaging parameters and Machine Learning models to evaluate the prognostic role of 18F-FDG PET in staging Endometrial Cancer patients
Carolina Bezzi

Japan
Chemically evolutionary screening of cyclic peptides for PET imaging of PD-L1 protein in tumors
Kuan Hu

Jordan
Effect of Degenerative Lumbar Changes on Trabecular Bone Score (TBS) in Patients Assessed for Osteoporosis in Routine Clinical Practice
Malik Juweid

Kenya
Comparison of two methods of semi-quantitative analysis of FDG PET brain scans
Lionel Munemo

Macao
Voxel-S-Value based treatment planning methods using Tc-99m-MAA SPECT/CT for liver radioembolization
CHEN GEFEI

Mexico
Vaccine-associated hypermetabolic lymphadenopathy on 18F-FDG PET/CT: Experience from a single center in Mexico
David Cardoza-Ochoa

Netherlands
18F FDG PET Radiomics features result in more accurate prediction of outcome for DLBCL patients than currently used IPI score
Jakoba Eertink

Norway
Quantitative imaging of Pb-212
Monika Kvassheim

Pakistan
Rising Frequency of Differentiated Thyroid Cancer in Younger Population
Aniqa Jabeen

Philippines
Cost-effectiveness of F-18 FDG PET/CT in lung and colorectal cancer: a systematic review and narrative synthesis
Thomas Neil Pascual

Poland
18F-FET-PET/MR-guided biopsies of contrast-enhancing gliomas: a prospective study
Bogdan Malkowski

Romania
Innovative theranostic agents for colon cancers, based on peptide-functionalized iron oxide nanoparticles - preclinical evaluation
Dana Niculăe

Serbia
The Diagnostic Value of F-18 FDG-PET/CT Imaging in Detection of Recurrent and Metastatic Breast Cancer
Jasna Mihailovic

Singapore
Long-Term Efficacy, Survival, and Toxicity of Peptide Receptor Radionuclide Therapy in Patients with Refractory Meningioma
Jingjing Zhang

South Africa
Initial Experience of Lung Metastases Response to 225Ac-PSMA-617 Therapy in Metastatic Prostate Adenocarcinoma
Letjie Maserumule

South Korea
Distinct subtypes of spatial brain metabolism patterns in Alzheimer's disease identified by deep learning-based FDG PET clusters
Hyun Gee Ryoo

Spain
Predictive value of dose metrics from 99mTc-MAA compared to 90Y SPECT/CT in Dosimetry-Guided Personalized SIRT of Hepatocellular Carcinoma
Mercedes Riveira

Sri Lanka
Impact of Time-of-Flight (TOF) reconstruction on 40-segmented brain volumes of (+/-) AD patients with short-lived 11C-Pittsburgh compound-B PET/MR Imaging
Dilani Wimalarathne

Sweden
Evaluation of DOTA as a marker for myocardial blood flow using 68Ga-DOTA and 150-water PET
Mark Lubberink

Switzerland
Cross-site PET Image Harmonization by Using Unsupervised Deep Generative Adversarial Network for Improving Quantitative Indices Reproducibility
Isaac Shiri

Taiwan
A novel 177Lu-labeled Dual CA9-targeted Probe as a Potential Theranostic radiopharmaceutical for Hypoxic Colorectal Cancer Diagnosis and Therapy
Siao-Syun Guan
SNMMI Annual Meeting Awards

Thailand
Multi-modal neuroimaging studies in default mode network areas in predicting a progressive neurocognitive decline in patients with mild cognitive impairment (MCI)
Tanyaluck Thientunyakit

United Kingdom
Software Compatibility Analysis for Quantitative Measures of [18F] flutemetamol Amyloid PET Burden
Hugh Pemberton

Uruguay
Cellular specificity assessment and longitudinal PET study in a transgenic mice model of a 18F-labelled Sulforhodamine 101 in astrocytosis processes in Alzheimer’s Disease
Kevin Zirbesegger

Yemen
FDG PET/ CT is more likely to detect the primary source of the Cancer of unknown primary when presented with cervical lymph nodes metastasis
GALAL ALOBTHANI

2022 ERF SNMMI-TS Technologist & Student Professional Development Grant Awards

Supports the travel to, registration for the onsite or virtual meeting (or categorical) attendance of nuclear medicine technologists (NMTs) or students who have had abstracts accepted to present at the SNMMI Annual Meeting.

Digital PET: What a technologist needs to know
Shelley Acuff

The Utility of an Injection Monitoring System in Diagnostic Imaging and Therapy: A Technologist perspective
Shelley Acuff

Very small target detectability in 18F phantom studies: Effects of very small reconstruction voxel size and different reconstruction algorithms on contrast to noise ratio
Marcus Barilar

TAGGING EFFICIENCY OF RADIOLABELED EGGS WITH TECHNETIUM 99M MACRAAGGREGATED ALBUMIN COMPARED TO TECHNETIUM 99M SULFUR COLLOID FOR GASTRIC EMPTYING STUDIES
Hayle Bergner

Administration of Lutetium 177 PSMA therapy in an outpatient nuclear medicine department, a technologist’s perspective
Crystal Botkin

Is SPECT/CT beneficial to the interpretation of DaT scans?
Christopher Caravella

Time Dependent Radiation Exposures of Patients with Prostate Cancer and Breast cancer Injected with Technetium-99m-MDP (99mTc-MDP) for Bone Scan
Ravi Chauhan

Reducing PET Technologists Radiation Exposure One Autoinjector at a Time
Nadine Colpo

Results of the FWHM measurements are provided in Table 1. FWHM resolution measurements
Kimberly Cornejo

Evaluating Lead Contamination in Nuclear Medicine and PET departments
Danya Dehnel

Can Plant-Based Burgers Be a Better Alternative for Allergy and Diet Restrictive Patients in a Nuclear Medicine Gastric Emptying Study?
Kylie Duarte-Speroff

Optimization of Image quality and noise reduction by regulating beta penalty function of BSREM reconstruction algorithm
Pooja Dwivedi

Frequency of Blood Contamination with Preparing an UltraTag RBC Kit to Radiolabel Red Blood Cells
Heather Edmonds

“Candy Cane Stripe” Sinogram Artifact on DSPECT images
Mike Feldkamp

Quantitative Perfusion SPECT (QPS) Analysis Using Both Male and Female Normal Databases in an Obese Male Patient: A Case Study
Sarah Frye

The application of compressed sensing reconstruction for myocardial perfusion image shortens the acquisition time: a simulation study
Mitsuha Fukami

Analysis of Prostate Cancer Imaging Agents: F-18 Fluciclovine vs. F-18 PSMA
Jonathon Garrett

Comparison of lesion detectability of dedicated breast PET and whole-body PET/CT
Kohei Hanaoka

Optimization of parameters for quantitative analysis of 131I-6-biodemethyl-norcholesterol SPECT/CT images
Daisuke Horikawa

Adsorption of In-111 solution on phantom walls: Effect of concentration and pH
Takumi Inagaki

Whole Body and SPECT/CT Imaging for Dosimetry of 177Lu-labeled Radiopharmaceutical Therapies: A Technologist’s Perspective
Natalie Jung

Evaluation of standardized uptake values and washout rates of representative abdominal organs in indium-111 pentetreotide single-photon emission tomography/ computed tomography: comparison to renal function
Takashi Kamiya
SNMMI ANNUAL MEETING AWARDS

Establishment of Radiation Safety Protocol for the Theranostics Practice in Nuclear Medicine
Matthew King

Navigating product shortages by utilizing quality control verification of fractionated radiopharmaceuticals
Sarah Knight

FDG PET quality in hyperglycemic patients: Is routine rescheduling necessary?
Allison Knuth

Compounding of [177Lu]Lu-PSMA-I&T using USP grade solvents in the radiopharmacy: experience in Quebec City
Nancy Lafreniere

An Alternative Radiopharmaceutical for Gastric/Small Bowel Emptying Due to Supply Chain Disruption
Scott Le

Inpatient PET Scans: Why We Should Screen Orders
Anna Mangiore

Quantitative evaluation of cardiac amyloidosis with 99mTc-pyrophosphate scintigraphy
Noritake Matsuda

Quantitative Image Evaluation by Changing Uptake Time in the Same Patient in PET/CT Test
Amon Ohsawa

PET/CT Imaging of B.1.617.2 (Delta) Variant of SARS-CoV-2 Infection to Native C57BL/6 Mice via Novel Molecular Probe 64Cu-NOTA-EK1
Tukang Peng

Lu-177 Lutetium Dotatate Infusion Safety: Infiltration or Extravasation?
Heather Peterson

Analyzing the implementation of 18F-Pylarify PET/CT imaging in Nuclear Medicine
Marissa Podlasek

Analysis of DCFPYL PET reconstruction artifacts vs bladder SUV measurements
Sydney Roberts

Explore the Functions of Super Iterative Reconstruction Technology on 68Ga-FAPI PET/MR Imaging
Weiwei Ruan

Evaluation of the effects of injection dose on image quality in patients who receive multiple FDG-PET/CT examinations
Hiroyuki Sagara

Binding Affinity of Sulfur Colloid to Egg Whites in Nuclear Medicine Gastric Emptying Study
Desiree Santos

Effectiveness of various syringe shields in minimizing radiation exposure
Alex Scharpen

PET quantifies target engagement of MAGL therapeutics for Alzheimer's disease
Tuo Shao

Image characteristics of brain perfusion SPECT/CT using a new multi-focal collimator: Comparison with conventional SPECT with LEHR collimator
Takayuki Shibutani

Digital PET/CT images can be reconstructed more efficiently using a network designed with deep learning
Yuya Shirakawa

Considerations and Options When Renovating Hot Labs
Ed Sims

Partial injection technique for real time infiltration assessment
Kristen Smith

Clinical Workflow Differences in Ga-68 Dotatate vs Cu-64 Dotatate
Kristen Smith

Comparing the relationship between lymph node uptake and the length of time after receiving the COVID-19 vaccine in 18F-FDG scans.
Madi Stelton

The Implementation of Lutathera® Therapy
Gift Suison

Analyzing the correlation between SPECT/CT and biopsy rates for Cardiac Technetium 99m Pyrophosphate studies in the diagnosis of amyloid plaque.
Max Sundby

Repeatability of PET/CT image quality using the ACR PET phantom and the SNMMI phantom analysis toolkit.
Douglass Vines

Stability matters: A study to evaluate In-vitro stability of Lu-177-PSMA-I&T
Madhusudan Vyas

18F-FDG Production and Quality Control (QC) Parameters Comparison in three different Automatic Synthesis Modules: An Experience of Commercial Centre
Madhusudan Vyas

NET Imaging: Past, Present and Future
Madhusudan Vyas

Developed a model for remote installation of Radiochemistry Synthesiser, Trasis – AllInOne: One Step forward to beat Covid-19 pandemic
Madhusudan Vyas

Developed and validated script for 18F – PSMA -1007 Synthesis in IBA – Synthera version-01
Madhusudan Vyas

The difference in tagging efficiency of unfiltered 99mTc-sulfur colloid and filtered 99mTc-sulfur colloid to eggbeaters
Kori Wright

Deep learning denoising technique enables low-injected-dose whole-body 18F-FDG PET/CT on lymphoma patients - A feasibility study
Runze Wu

In vivo ultrasensitive detection of lymph nodes metastasis of ESCC
Jianzhong Xian

Comparison between the μ-maps of different PET tracers: 18F-FDG and 18F-flutemetamol, generated by the attenuation correction method without external radiation source
Takahiro Yamada
Professional Development Awards

SNMMI provides various opportunities for early career professionals to get more engaged with the Society through fellowships, an internship program, leadership academies, and our annual “Ones to Watch” selection. These programs are designed to nurture future leaders of the SNMMI and recognize the new wave of talent within this exciting specialty.

Bradley-Alavi Student Fellowships
Designed to stimulate students’ interest in molecular imaging/nuclear medicine by supporting their full-time participation in clinical and basic research activities for three months (or less). The Bradley-Alavi Fellowships are named by the donors - Drs. Jane and Abass Alavi - in honor of Dr. Stanley E. Bradley, a professor of Medicine at Columbia University College of Physicians and Surgeons until 1978 and a prominent researcher in the fields of renal physiology and liver disease.

2022 Recipients

Vibha Balaji
University of Massachusetts Lowell

Abhijit Bhattaru
University of Pennsylvania

Robert E. Henkin, MD, Government Relations Fellowship
The Robert E. Henkin Fellowship provides early-career professionals in nuclear medicine and molecular imaging direct personal exposure to government relations activities of the SNMMI as well as the state and federal legislative and regulatory process.

2022 Recipient

Angela Weiler, CNMT

*Coming again in 2022-2023:
• Ursula Mary Kocemba-Slosky, PhD Professional Relations Fellowship
• SNMMI Future Leaders Academy
• SNMMI-TS Leadership Academy

Radiopharmaceutical Therapy Fellowship
This program will develop clinical research competencies in radiopharmaceutical therapies including designing and helping conduct a clinical therapy trial. Fellow will participate in all clinical trial procedures including but not limited to attending all sponsored study meetings (study initiation, etc.), consenting patients for research protocols, interacting with the IRB (or equivalent), and conducting study procedures with study participants including histories, physicals and safety testing. Fellow will interface with academic and corporate sponsors of therapy trials and attend NCI cancer cooperative group meetings for their host institution’s group. Scientific writing skills with preparation of scientific abstracts and manuscripts will be emphasized. Clinical skills in radiopharmaceutical therapy will be honed, so that at the conclusion of the program, the fellow will be very familiar with diagnostic imaging procedures guiding therapies, patient assessment (including collecting relevant medical history, performing physical exams), patient selection, integration of other cancer therapies, and appropriate care pathways for FDA-approved molecular radiopharmaceutical therapies, and other investigational radioisotopes and molecules.

2022 Recipients
Sophia O’Brien, MD and Ashwin Singh Parihar, MBBS, MD