



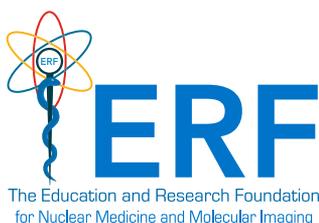
SNMMI Annual Grants & Awards Recognition 2021 Recipients

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 2021. We invite you to learn more about these recipients through this comprehensive guide of SNMMI honors, including:

- 3 **2021 Highlights**
- 5 **Service Awards**
- 9 **Research, Grants, and Scholarships**
- 10 **Council and Center Recognition**
- 13 **Publication Awards**
- 23 **SNMMI 2021 Annual Meeting Awards**
- 29 **Professional Development Awards**

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.



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.

2021 Sponsor Acknowledgement:

Additional supporters of the 2020-2021 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

2021 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.

2021 Henry N. Wagner, Jr., MD, Lectureship: "From Molecules to the Universe: Brain PET and SPECT"

Satoshi Minoshima, MD, PhD, FSNMMI – Professor and Chairman, University of Utah, Salt Lake City, UT

Hal Anger Memorial Lectureship

The Anger Lectureship was established in 2006 to memorialize the groundbreaking work of Hal Anger who introduced the Anger Camera over sixty years ago. The lectureship celebrates the advances in instrumentation and the application of that technology in the advancement of patient care.

2021 Hal Anger Lectureship: "The Transformative Power of Artificial Intelligence in the Practice of Nuclear Medicine"

Irène Buvat, PhD – Head of the "Laboratory of Translational Imaging in Oncology" Research Lab, Institut Curie Research Center, Orsay, France

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.

2021 Recipient

Thomas J. Ruth, PhD – Emeritus Senior Research Scientist, TRIUMF Nuclear Medicine Division, Vancouver, BC, Canada

Paul C. Aegersold, PhD, Award

First presented in 1973, The Aegersold Award is named for Paul C. Aegersold—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.

2021 Recipient

Steven M. Larson, MD, FACNM – Chief, Nuclear Medicine Service, Memorial Sloan-Kettering Cancer Center, New York, NY

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.

2021 Recipient

Frances L. Neagley, BA, CNMT, FSNMMI-TS – Fran has been a staple within the SNMMI-TS and has served on the NCOR for decades in a variety of positions. She also served as Editor to the Journal of Nuclear Medicine Technology where she successfully embarked on several improvements to the journal, including reducing article turnaround time from submission to publication, publishing procedure guidelines, adding case studies and invited commentaries, and encouraging submissions from chapter presidents.



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.

2021 Recipients

Tricia L. Peters, BS, CNMT, PET, RT(CT) – Director, Nuclear Medicine, Ridley-Tree Cancer Center at Sansum Clinic, Santa Barbara, CA

Dmitry D. Beyder, MPA, CNMT – Nuclear Medicine Clinical Supervisor, Barnes-Jewish Hospital, St. Louis, MO

Ensured that technologists were recognized as front-line workers and advocated on behalf of the SNMMI for the FIND Act in Congress.



SNMMI-TS Outstanding Technologist

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

2021 Recipient

Sarah R. Gibbons, MBA, CNMT, NMTCB(CT) – Nuclear Medicine Technologist, Indiana University Health Bedford, Bedford, IN

Worked effortlessly over the last several years at the chapter and national level to encourage students and technologists to join the Technologist Section and to get involved.



SNMMI-TS 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, President of the Technologist Section from 2010-2011.

2021 Recipient

Jennifer L. Prekeges, MS, CNMT, FSNMMI-TS – Program Chair, Nuclear Medicine Technology, Bellevue College, Bellevue, WA

Converted Educators Forum and Student Review Course to virtual programming in 2020.



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 2021



Anca Avram, MD, FACNM, FSNMMI
Central Chapter
Member Since 2003



David Mankoff, MD, PhD, FSNMMI
Greater New York Chapter
Member Since 1986



Twyla Bartel, DO, MBA, FACNM, FSNMMI
Southwestern Chapter
Member Since 2002



Darlene Metter, MD, FACR, FACNM, FSNMMI
Southwestern Chapter
Member Since 1992



Wengen Chen, MD, PhD, FSNMMI
Mid-Eastern Chapter
Member Since 2009



Helen Nadel, MD, FRCPC, FSNMMI
Northern California Chapter
Member Since 1983



Cathy Sue Cutler, PhD, FSNMMI
Greater New York Chapter
Member Since 1998



Alan Packard, PhD, FSNMMI
New England Chapter
Member Since 1985



Eric Frey, PhD, FSNMMI
Mid-Eastern Chapter
Member Since 1993



Julie Price, PhD, FSNMMI
New England Chapter
Member Since 1989



Roger Howell, PhD, FSNMMI
Greater New York Chapter
Member Since 1985



Buck Rogers, PhD, FSNMMI
Missouri Valley Chapter
Member Since 1996



Robert Mach, PhD, FSNMMI
Greater New York Chapter
Member Since 1985



Heiko Schöder, MD, MBA, FSNMMI
Greater New York Chapter
Member Since 2006

SNMMI Fellows Class of 2021



Peter Scott, PhD, FSNMMI
Central Chapter
Member Since 2007



Neil Vasdev, PhD, FSNMMI
Eastern Great Lakes Chapter
Member Since 2006



**Jian Yu, MD, FRCPC,
FACNM, FSNMMI**
Greater New York Chapter
Member Since 2001

SNMMI President Distinguished Educator

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

2021 Recipient



Hyewon Hyun, MD

For innovation in nuclear medicine education and outreach to medical students, residents and early career professionals and excellence in leadership as the Chair of the SNMMI Diversity, Equity, and Inclusion Task Force.

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 Alan B. Packard, PhD, FSNMMI. The individuals being recognized this year have been instrumental to SNMMI's virtual education efforts.

2021 Recipients

SNMMI Scientific Program Committee Cabinet:

For significant contributions to the field of nuclear medicine and molecular imaging and extraordinary leadership in the planning and execution of the 2020 and 2021 SNMMI Virtual Annual Meetings.



**Umar Mahmood, MD,
PhD, FSNMMI**



Giuseppe Esposito, MD, MBA



Heather Jacene, MD



David M. Schuster, MD, FACR



Donna J. Cross, PhD



Kathleen M. Krisak, BS, CNMT, FSNMMI-TS

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 Alan B. Packard, PhD, FSNMMI. The individuals being recognized this year have been instrumental to SNMMI's virtual education efforts.

2021 Recipients

SNMMI Annual Meeting Staff:

For contributions to the SNMMI and extraordinary efforts in the planning and execution of the 2020 and 2021 SNMMI Virtual Annual Meetings.



Ann Latham



Delicia Hurdle



Amy Schull



Jane Kamm



Lisa Dickinson



Brandi Eden



Caroline Krystek



Catherine Lamb

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 2021



**Barbara J. Grabher, BS, CNMT,
RT(N), NCT, FSNMMI-TS**
Greater New York Chapter
Member Since 1986



**Leesa Ann Ross, MA, CNMT, PET,
RT(N), RT(CT), FSNMMI-TS**
Southeastern Chapter
Member Since 1995



Cheryl Rickley, CNMT, FSNMMI-TS
Greater New York Chapter
Member Since 1989

SNMMI-TS Presidential Distinguished Service Award

The 2021 Presidential Distinguished Service Award winners are given to individuals who made a significant impact during the presidential tenure of Tina Buehner, PhD, CNMT, FSNMMI-TS. The individuals being recognized this year have shown exceptional leadership and have provided strategic guidance in the areas of education and research.

2021 Recipients

For their outstanding contributions on the SNMMI-TS Educators Committee and, more specifically, for the development of the career pathways document and revisions to the entry level curriculum.



Norman E. Bolus,
MSPH, CNMT, FSNMMI-TS



C. David Gilmore,
EdD, CNMT, FSNMMI-TS



Crystal Botkin,
PhD, MPH, CNMT, PET, FSNMMI-TS



Cybil J. Nielsen,
MBA, CNMT, FSNMMI-TS



Bitat Savir-Baruch, MD

For her research mentorship as I worked through my PhD thesis and for her friendship and guidance over the past year as I served as President.



Mark H. Crosthwaite, MEd, CNMT, PET, FSNMMI-TS

For his leadership as SNMMI-TS President last year as we transitioned 100% virtual, and his leadership as chair of the SNMMI-TS COVID-19 Task Force which worked tirelessly to provide additional resources for our members to ensure that they were protected front line workers in all aspects of their jobs.

Research, Grants, and Scholarships

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.

Min-Jeong Kim, MD, PhD

SNMMI-TS Career Advancement Grant
Supports nuclear medicine technologists pursuing additional educational opportunities to advance their professional career.

Nickie Beaulieu, CNMT; Samar El Khatib, CNMT; Sarah Frye, MBA, CNMT, PET, CCRP; Derrick Gillan, ARRT(N)(MR)(CT), PET; Jeremy Heinrich, CNMT, NMTCB(CT), RT; Clifford Liguori, CNMT; Marcy McCarty, MBA, RT(R)(N); Patricia O'Neal, CNMT, NMT; Alexandria Pleshek, CNMT; Diane Soulek, CNMT, NCT, PET, RT(N); Sara Vandehey, MBA CNMT RT(N)(CT); Cheyenne Waters, CNMT

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.

Yesh Datar, Shadab Ahamed, Bryan Fraser, Vishnu Murthy, Temitope Agabalogun, Kevin Cheng, Kevin Leung, David Gao, Abhijit Bhattaru, Nathan Wright

2021-2023 ERF SNMMI Postdoctoral Molecular Imaging Scholar Grant

Supports a two-year research endeavor that promotes integration of molecular imaging into the career of the trainee.

Ashwin Parihar, MBBS, MD

2021 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).

Elizabeth Dibble, MD; Amir Iravani, MD, FRACP; Courtney Lawhn-Heath, MD; Charles Marcus, MD; Erik Mittra, MD, PhD; Daniel Lee, MD

2021-2023 ERF SNMMI Molecular Imaging Research Grant for Junior Academic Faculty Award

Supports one junior faculty member in an academic/research setting, and to enable them to engage in molecular imaging research related to diagnostic or therapeutic applications.

Courtney Lawhn-Heath, MD

2021 Scholarships Awarded

Susan C. Weiss Clinical Advancement Scholarship

In honor of Susan C. Weiss, SNMMI-TS past president and former executive director of the Education and Research Foundation for SNMMI, this scholarship serves to support a certified nuclear medicine technologist member who is pursuing clinical advancement through a didactic educational program.

*Sarah Frye, MBA, CNMT, PET, CCRP
Nicholas Heath, CNMT*

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.

Ann Apo; Ricky Huang

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.

Mary Beth Farrell, MS, CNMT, NCT, FSNMMI-TS

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.

Derrick Gillan, ARRT(N)(MR)(CT), PET

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 Gibbons, MBA, CNMT, NMTCB(CT)

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.

*Fatimah Almuallim
Bridgette Asuquo
Anna Beam
Brandon Nielson
Harmun Sehmy*

*Lori Smith
Jackie Stevens
Eileen Tang
Khalil Webb
Madelyn Zimmer*

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

Tom Miller Memorial Lecture

Created to recognize the late Tom Miller, MD, PhD. This Annual Meeting lecture has a theme related to education as Dr. Miller served as one of SNMMI's Scientific Program Committee Chairs for many years.



Paige Bennett, MD

Academic Council Distinguished Service 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.



Twyla Bartel, DO, MBA, FACNM

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.



Julie Price, PhD, FSNMMI

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.



Robert DeKemp, PhD

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.



Panithaya Chareonthitawee, MD

General Clinical Nuclear Medicine Council

General Clinical Nuclear Medicine Council Lecture Award

Recognizes a speaker who will present insights on the value of general clinical nuclear medicine in clinical practice as procedures, which remain bread-&-butter studies in many departments, paved the way for today's targeted imaging and therapy and many of today's nuclear medicine practitioners owe their careers to these procedures.



Philip Wells, MD, FRCPC, MSc

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.



Harvey Ziessman, MD, FSNMMI

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.



Ramsey Badawi, PhD

Pediatric Imaging Council

Conway-Treves Senior Investigator Award

Given to senior scientists and physician-scientists who have contributed greatly to our subspecialty of pediatric nuclear medicine as a scientist, teacher, mentor and leader, or who have contributed substantially to the work of the Society of Nuclear Medicine and Molecular Imaging or the Pediatric Imaging Council.



Helen Nadel, MD, FRCPC

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.



Shiva Abbaszadeh, PhD

Correlative Imaging Council

Barry Siegel Lecture

Honors an individual who has 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.



Ora Israel, Sr., MD, FSNMMI

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.



Ashley Cherie Knight, M.Sc

— Specialty Councils & Centers of Excellence Recognition

Radiopharmaceutical Sciences Council

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.



Victor William Pike, PhD

Michael J. Welch Postdoctoral Grant

Awarded to a post-doctoral individual who has demonstrated a novel approach to radiochemistry.



Jimmy Jakobsson, MD

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.



Eric Krenning, MD, PhD, FRCP

Center for Molecular Imaging Innovation and Translation

ERF 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.



Carmen Azevedo



Anna Fisher, BS, CNMT, NMTCB(CT), PET

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.



Rodney J. Hicks, MD

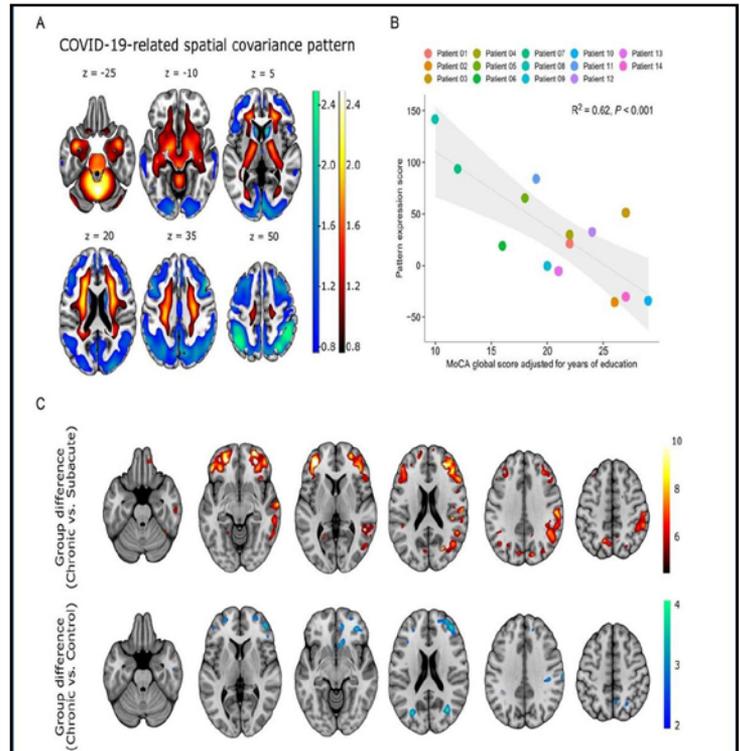
Publication Awards

2021 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.

Altered Regional Cerebral Function and Its Association With Cognitive Impairment In COVID-19: A Prospective FDG PET Study

First Author: Ganna Blazhenets, M. Sc.



The Journal of Nuclear Medicine Best Papers

EDITORS' CHOICE AWARD — FOR THE BEST CLINICAL ARTICLE IN 2020

PRESENTED TO: *Clemens Kratochwil, Frederik L. Giesel, Claus-Peter Heussel, Daniel Kazdal, Volker Endris, Cathleen Nientiedt, Frank Bruchertseifer, Maximilian Kippenberger, Hendrik Rathke, Jonas Leichsenring, Markus Hohenfellner, Alfred Morgenstern, Uwe Haberkorn, Stefan Duensing, and Albrecht Stenzinger*

Department of Nuclear Medicine, Heidelberg University Hospital, Heidelberg, Germany

FOR: Patients Resistant Against PSMA-Targeting α -Radiation Therapy Often Harbor Mutations in DNA Damage-Repair-Associated Genes

J Nucl Med. 2020; 61:683–688

EDITORS' CHOICE AWARD — FOR THE BEST BASIC SCIENCE ARTICLE IN 2020

PRESENTED TO: *Eric Berg, Herman Gill, Jan Marik, Annie Ogasawara, Simon Williams, Guus van Dongen, Daniëlle Vugts, Simon R. Cherry, and Alice F. Tarantal*

Department of Biomedical Engineering, University of California–Davis, Davis, California

FOR: Total-Body PET and Highly Stable Chelators Together Enable Meaningful ^{89}Zr -Antibody PET Studies up to 30 Days After Injection

J Nucl Med. 2020; 61:453–460

EDITORS' CHOICE AWARD — FOR THE OVERALL BEST ARTICLE IN 2020

PRESENTED TO: *Eric Berg, Herman Gill, Jan Marik, Annie Ogasawara, Simon Williams, Guus van Dongen, Daniëlle Vugts, Simon R. Cherry, and Alice F. Tarantal*

Department of Biomedical Engineering, University of California–Davis, Davis, California

FOR: Total-Body PET and Highly Stable Chelators Together Enable Meaningful ^{89}Zr -Antibody PET Studies up to 30 Days After Injection

J Nucl Med. 2020; 61:453–460

Journal of Nuclear Medicine Technology Best Papers

EDITORS' CHOICE AWARD — FOR 1ST PLACE ARTICLE IN 2020

PRESENTED TO: *Paul E. Christian, Simon-Peter Williams, Lance Burrell, Paulo Castaneda, Justin Albiani, Nicholas Sandella, Andrei Iagaru, John M. Hoffman, Alex de Crespigny, and Sandra Sanabria Bohorquez*
Genentech, Inc., South San Francisco, California

FOR: Optimization of ⁸⁹Zr PET Imaging for Improved Multisite Quantification and Lesion Detection Using an Anthropomorphic Phantom

J. Nucl. Med. Technol. 2020; 48:54–57

EDITORS' CHOICE AWARD — FOR 2ND PLACE ARTICLE IN 2020

PRESENTED TO: *Shirin Hatami, Sarah Frye, Anna McMunn, Crystal Botkin, Razi Muzaffar, Kara Christopher, and Medhat Osman*

Doisy College of Health Sciences, Saint Louis University, St. Louis, Missouri

FOR: Added Value of Digital over Analog PET/CT: More Significant as Image Field of View and Body Mass Index Increase

J. Nucl. Med. Technol. 2020; 48:354–360

EDITORS' CHOICE AWARD — FOR 3RD PLACE ARTICLE IN 2020

PRESENTED TO: *Krista Wolfe, Jonathan Baldwin, Vesper Grantham, and Wendy Galbraith*

College of Allied Health, University of Oklahoma Health Sciences Center, Oklahoma City, Oklahoma

FOR: ⁹⁰Y-Labeled Resin Microsphere Spills: A Pilot Study to Determine Efficient Cleanup Practices

J. Nucl. Med. Technol. 2020; 48:274–277

EDITORS' CHOICE AWARD — FOR BEST CONTINUING EDUCATION ARTICLE IN 2020

PRESENTED TO: *Barbara J. Grabher*

Grabher Consulting and Specialty Services, Forest Hill, Maryland

FOR: Breast Cancer: Evaluating Tumor Estrogen Receptor Status with Molecular Imaging to Increase Response to Therapy and Improve Patient Outcomes

J. Nucl. Med. Technol. 2020; 48:191–201

EDITORS' CHOICE AWARD — FOR BEST EDUCATORS' FORUM ARTICLE IN 2020

PRESENTED TO: *Gail A. McFarland, Richard G. Hoylman, Jennifer L. Prekeges, and Vanessa R. Bennett*

Nuclear Medicine Technology Program, Bellevue College, Bellevue, Washington

FOR: Teaching Professional Behavior

J. Nucl. Med. Technol. 2020; 48:317–325

2021 Alavi–Mandell Awards

FOR JNM ARTICLES PUBLISHED IN 2020

The Impact of Radiobiologically Informed Dose Prescription on the Clinical Benefit of ⁹⁰Y SIRT in Colorectal Cancer Patients

Elliot M. Abbott, Nadia Falzone*, Boon Q. Lee, Christiana Kartsonaki, Helen Winter, Tessa A. Greenhalgh, Daniel R. McGowan, Nigar Syed, Ana M. Denis-Bacelar, Philip Boardman, Ricky A. Sharma, and Katherine A. Vallis*

Quantitative 3D Assessment of ⁶⁸Ga-DOTATOC PET/MRI with Diffusion-Weighted Imaging to Assess Imaging Markers for Gastroenteropancreatic Neuroendocrine Tumors: Preliminary Results

Lisa C. Adams, Keno K. Bressemer*, Julia Brangsch, Carolin Reimann, Kristin Nowak, Winfried Brenner, and Marcus R. Makowski*

Cerenkov Luminescence Imaging for Surgical Margins in Radical Prostatectomy: A Surgical Perspective

Dominic Bagguley, Marcus Cumberbatch, Nathan Lawrentschuk, and Declan G. Murphy

Differential Expression of Glucose Transporters and Hexokinases in Prostate Cancer with a Neuroendocrine Gene Signature: A Mechanistic Perspective for ¹⁸F-FDG Imaging of PSMA-Suppressed Tumors

Martin K. Bakht, Jessica M. Lovnicki, Janice Tubman, Keith F. Stringer, Jonathan Chiramonte, Michael R. Reynolds, Iulian Derecichei, Rosa-Maria Ferraiuolo, Bre-Anne Fifield, Dorota Lubanska, So Won Oh, Gi Jeong Cheon, Cheol Kwak, Chang Wook Jeong, Keon Wook Kang, John F. Trant, Colm Morrissey, Ilsa M. Coleman, Yuzhuo Wang, Hojjat Ahmadzadehfar, Xuesen Dong, and Lisa A. Porter

Imaging the Distribution of Gastrin-Releasing Peptide Receptors in Cancer

Lucia Baratto, Heying Duan, Helmut Mäcke, and Andrei Iagaru

¹¹C-Methionine PET Identifies Astroglia Involvement in Heart–Brain Inflammation Networking After Acute Myocardial Infarction

Pablo Bascañana, Annika Hess, Tobias Borchert, Yong Wang, Kai C. Wollert, Frank M. Bengel, and James T. Thackeray

First Evidence for a Dose–Response Relationship in Patients Treated with ¹⁶⁶Ho Radioembolization: A Prospective Study

Remco Bastiaannet, Caren van Roekel, Maarten L.J. Smits, Sjoerd G. Elias, Wouter A.C. van Amsterdam, Dan Doan, Jip F. Prince, Rutger C.G. Bruijnen, Hugo W.A.M. de Jong, and Marnix G.E.H. Lam

Predictive Value of ¹⁸F-Florbetapir and ¹⁸F-FDG PET for Conversion from Mild Cognitive Impairment to Alzheimer Dementia

Ganna Blazhenets, Yilong Ma, Arnd Sörensen, Florian Schiller, Gerta Rücker, David Eidelberg, Lars Frings, and Philipp T. Meyer for the Alzheimer Disease Neuroimaging Initiative

Targeted Optical Imaging of the Glucagonlike Peptide 1 Receptor Using Exendin-4-IRDye 800CW

Marti Boss, Desiree Bos, Cathelijne Frielink, Gerwin Sandker, Selen Ekim, Camille Marciniak, Francois Pattou, Go van Dam, Sanne van Lith, Maarten Brom, Martin Gotthardt, and Mijke Buitinga

Receptor-Targeted Photodynamic Therapy of Glucagon-Like Peptide 1 Receptor–Positive Lesions

Marti Boss, Desiree Bos, Cathelijne Frielink, Gerwin Sandker, Patricia Bronkhorst, Sanne A.M. van Lith, Maarten Brom, Mijke Buitinga, and Martin Gotthardt

Evaluation of an Automated Module Synthesis and a Sterile Cold Kit–Based Preparation of ⁶⁸Ga-PSMA-11 in Patients with Prostate Cancer

Letizia Calderoni, Andrea Farolfi, Davide Pianori, Elisa Maietti, Veronica Cabitza, Alessandro Lambertini, Giacomo Ricci, Silvi Telo, Filippo Lodi, Paolo Castellucci, and Stefano Fanti

⁶⁴Cu-DOTATATE PET/CT and Prediction of Overall and Progression-Free Survival in Patients with Neuroendocrine Neoplasms

Esbén Andreas Carlsen, Camilla Bardram Johnbeck, Tina Binderup, Mathias Loft, Andreas Pfeifer, Jann Mortensen, Peter Oturai, Annika Loft, Anne Kiil Berthelsen, Seppo W. Langer, Ulrich Knigge, and Andreas Kjaer

3D-Printable Platform for High-Throughput Small-Animal Imaging

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Combination Strategies to Improve Targeted Radionuclide Therapy

Tiffany G. Chan, Edward O'Neill, Christine Habjan, and Bart Cornelissen

¹⁸F-FAC PET Visualizes Brain-Infiltrating Leukocytes in a Mouse Model of Multiple Sclerosis

Bao Ying Chen, Chiara Ghezzi, Brendon Villegas, Andrew Quon, Caius G. Radu, Owen N. Witte, and Peter M. Clark

Factors Predicting Metastatic Disease in ⁶⁸Ga-PSMA-11 PET–Positive Osseous Lesions in Prostate Cancer

Le Wen Chiu, Courtney Lawhn-Heath, Spencer C. Behr, Roxanna Juarez, Paola M. Perez, Iryna Lobach, Matthew D. Bucknor, Thomas A. Hope, and Robert R. Flavell

PET Imaging Quantifying ⁶⁸Ga-PSMA-11 Uptake in Metastatic Colorectal Cancer

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Anouk C. de Jong, Minke Smits*, Job van Riet, Jurgen J. Fütterer, Tessa Brabander, Paul Hamberg, Inge M. van Oort, Ronald de Wit, Martijn P. Lolkema, Niven Mehra, Marcel Segbers†, and Astrid A.M. van der Veldt†*

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Diagnostic Accuracy of PET Tracers for the Differentiation of Tumor Progression from Treatment-Related Changes in High-Grade Glioma: A Systematic Review and Metaanalysis

Paul L. de Zwart, Bart R.J. van Dijken, Gea A. Holtman, Gilles N. Stormezand, Rudi A.J.O. Dierckx, Peter Jan van Laar, and Anouk van der Hoorn

The Spatial-Temporal Ordering of Amyloid Pathology and Opportunities for PET Imaging

Enrico Fantoni, Lyduine Collij*, Isadora Lopes Alves, Christopher Buckley, and Gill Farrar on behalf of the AMYPAD consortium*

Mapping Prostate Cancer Lesions Before and After Unsuccessful Salvage Lymph Node Dissection Using Repeat PSMA PET

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Alteration of Cellular Reduction Potential Will Change ⁶⁴Cu-ATSM Signal With or Without Hypoxia

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Early Prostate-Specific Antigen Changes and Clinical Outcome After ¹⁷⁷Lu-PSMA Radionuclide Treatment in Patients with Metastatic Castration-Resistant Prostate Cancer

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Pharmacokinetic Assessment of ¹⁸F-(2S,4R)-4-Fluoroglutamine in Patients with Cancer

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Demarcation of Sepsis-Induced Peripheral and Central Acidosis with pH (Low) Insertion Cycle Peptide

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Hybrid Tracers Based on Cyanine Backbones Targeting Prostate-Specific Membrane Antigen: Tuning Pharmacokinetic Properties and Exploring Dye–Protein Interaction

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¹⁷⁷Lu-NM600 Targeted Radionuclide Therapy Extends Survival in Syngeneic Murine Models of Triple-Negative Breast Cancer

Reinier Hernandez, Joseph J. Grudzinski, Eduardo Aluicio-Sarduy, Christopher F. Massey, Anatoly N. Pinchuk, Ariana N. Bitton, Ravi Patel, Ray Zhang, Aakarsha V. Rao, Gopal Iyer, Jonathan W. Engle, and Jamey P. Weichert

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Arghavan Jahandideh, Sauli Uotila, Mia Stähle, Jenni Virta, Xiang-Guo Li, Ville Kytö, Päivi Marjamäki, Heidi Liljenbäck, Pekka Taimen, Vesa Oikonen, Jukka Lehtonen, Mikko I. Mäyränpää, Qingshou Chen, Philip S. Low, Juhani Knutu, Anne Roivainen, and Antti Saraste

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Lesion Detection and Interobserver Agreement with Advanced Image Reconstruction for ^{18}F -DCFPyL PET/CT in Patients with Biochemically Recurrent Prostate Cancer

Bernard H.E. Jansen, Robin W. Jansen, Maurits Wondergem, Sandra Srbljin, John M.H. de Klerk, Birgit I. Lissenberg-Witte, André N. Vis, Reindert J.A. van Moorselaar, Ronald Boellaard, Otto S. Hoekstra, and Daniela E. Oprea-Lager

Repeatability of Quantitative ^{18}F -DCFPyL PET/CT Measurements in Metastatic Prostate Cancer

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Histologically Confirmed Diagnostic Efficacy of ^{18}F -rhPSMA-7 PET for N-Staging of Patients with Primary High-Risk Prostate Cancer

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Detection Rate and Localization of Prostate Cancer Recurrence Using ^{68}Ga -PSMA-11 PET/MRI in Patients with Low PSA Values ≤ 0.5 ng/mL

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Recent Advances in Imaging Steroid Hormone Receptors in Breast Cancer

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PARP-1-Targeted Auger Emitters Display High-LET Cytotoxic Properties In Vitro but Show Limited Therapeutic Utility in Solid Tumor Models of Human Neuroblastoma

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The Genetic Duet of BRAF V600E and TERT Promoter Mutations Robustly Predicts Loss of Radioiodine Avidity in Recurrent Papillary Thyroid Cancer

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Characterization of 3 PET Tracers for Quantification of Mitochondrial and Synaptic Function in Healthy Human Brain: ^{18}F -BCPP-EF, ^{11}C -SA-4503, and ^{11}C -UCB-J

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Can Intraoperative Fluorescence Imaging Identify All Lesions While the Road Map Created by Preoperative Nuclear Imaging Is Masked?

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^{11}C -Choline PET/CT in Recurrent Prostate Cancer: Retrospective Analysis in a Large U.S. Patient Series

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Total-Body ^{68}Ga -PSMA-11 PET/CT for Bone Metastasis Detection in Prostate Cancer Patients: Potential Impact on Bone Scan Guidelines

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Preclinical PERCIST and 25% of SUVmax Threshold: Precision Imaging of Response to Therapy in Co-clinical ¹⁸F-FDG PET Imaging of Triple-Negative Breast Cancer Patient-Derived Tumor Xenografts

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Semiautomatically Quantified Tumor Volume Using ⁶⁸Ga-PSMA-11 PET as a Biomarker for Survival in Patients with Advanced Prostate Cancer

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¹⁸F-FDG PET/CT in Left-Ventricular Assist Device Infection: Initial Results Supporting the Usefulness of Image-Guided Therapy

Jan M. Sommerlath Sohns, Hannah Kröhn*, Alexandra Schöde, Thorsten Derlin, Axel Haverich, Jan D. Schmitto*, and Frank M. Bengel**

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Thijs S. Stutvoet, Elly L. van der Veen*, Arjan Kol, Inês F. Antunes, Erik F.J. de Vries, Geke A.P. Hospers, Elisabeth G.E. de Vries, Steven de Jong, and Marjolijn N. Lub-de Hooge*

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Elly L. van der Veen, Frans V. Suurs, Frederik Cleeren, Guy Bormans, Philip H. Elsinga, Geke A.P. Hospers, Marjolijn N. Lub-de Hooge, Elisabeth G.E. de Vries, Erik F.J. de Vries, and Inês F. Antunes

Image Quality and Semiquantitative Measurements on the Biograph Vision PET/CT System: Initial Experiences and Comparison with the Biograph mCT

Joyce van Sluis, Ronald Boellaard, Ananthi Somasundaram, Paul H. van Snick, Ronald J.H. Borra, Rudi A.J.O. Dierckx, Gilles N. Stormezand, Andor W.J.M. Glaudemans, and Walter Noordzij

Image Quality and Activity Optimization in Oncologic ¹⁸F-FDG PET Using the Digital Biograph Vision PET/CT System

Joyce van Sluis, Ronald Boellaard, Rudi A.J.O. Dierckx, Gilles N. Stormezand, Andor W.J.M. Glaudemans, and Walter Noordzij

TSP0 Versus P2X7 as a Target for Neuroinflammation: An In Vitro and In Vivo Study

Donatienne Van Weehaeghe, Evelien Van Schoor, Joke De Vocht, Michel Koole, Bala Attili, Sofie Celen, Lieven Declercq, Dietmar R. Thal, Philip Van Damme, Guy Bormans, and Koen Van Laere

Moving Toward Multicenter Therapeutic Trials in Amyotrophic Lateral Sclerosis: Feasibility of Data Pooling Using Different Translocator Protein PET Radioligands

Donatienne Van Weehaeghe, Suma Babu*, Joke De Vocht, Nicole R. Zürcher, Sheena Chew, Chieh-En J. Tseng, Marco L. Loggia, Michel Koole, Ahmadreza Rezaei, Georg Schramm, Philip Van Damme, Jacob M. Hooker, Koen Van Laere*, and Nazem Atassi**

Management of Patients with Renal Failure Undergoing Dialysis During ¹³¹I Therapy for Thyroid Cancer

Maximilien Vermandel, Pauline Debruyne*, Amandine Beron, Laura Devos, Antoine Talbot, Jean-François Legrand, François Provôt, and Georges Lion*

Diagnostic Value of ⁶⁸Ga-PSMA PET/CT for Detection of Phosphatase and Tensin Homolog Expression in Prostate Cancer: A Pilot Study

BaoJun Wang, Jie Gao*, Qing Zhang*, Yao Fu, Guangxiang Liu, Jiong Shi, Danyan Li, Feng Wang*, and Hongqian Guo*

A Prospective, Comparative Study of Ventilation–Perfusion Planar Imaging and Ventilation–Perfusion SPECT for Chronic Thromboembolic Pulmonary Hypertension

Lei Wang, Meng Wang, Tao Yang, Dayong Wu, Changming Xiong, and Wei Fang**

The Changing Face of Nuclear Cardiology: Guiding Cardiovascular Care Toward Molecular Medicine

Rudolf A. Werner, James T. Thackeray, Johanna Diekmann, Desiree Weiberg, Johann Bauersachs, and Frank M. Bengel

Nationwide Survey on Implementation of 2011 Nuclear Regulatory Commission Policy on Release of Patients After ¹³¹I Therapy for Thyroid Cancer

Di Wu, Cristiane J. Gomes Lima, Gary Bloom, Kenneth D. Burman, Leonard Wartofsky, and Douglas Van Nostrand

2021 Alavi–Mandell Awards FOR JNM ARTICLES PUBLISHED IN 2020

Radiohybrid Ligands: A Novel Tracer Concept Exemplified by ¹⁸F- or ⁶⁸Ga-Labeled rhPSMA Inhibitors

Alexander Wurzer, Daniel Di Carlo, Alexander Schmidt, Roswitha Beck, Matthias Eiber, Markus Schwaiger, and Hans-Jürgen Wester

Predictive Role of Temporal Changes in Intratumoral Metabolic Heterogeneity During Palliative Chemotherapy in Patients with Advanced Pancreatic Cancer: A Prospective Cohort Study

Shin Hye Yoo, Seo Young Kang*, Gi Jeong Cheon, Do-Youn Oh, and Yung-Jue Bang*

Label-Free Visualization of Early Cancer Hepatic Micrometastasis and Intraoperative Image-Guided Surgery by Photoacoustic Imaging

Qian Yu, Shanshan Huang*, Zhiyou Wu, Jiadi Zheng, Xiaoyuan Chen, and Liming Nie*

¹⁷⁷Lu-EB-PSMA Radioligand Therapy with Escalating Doses in Patients with Metastatic Castration-Resistant Prostate Cancer

Jie Zang, Qingxing Liu*, Huimin Sui, Rongxi Wang, Orit Jacobson, Xinrong Fan, Zhaohui Zhu, and Xiaoyuan Chen*

Imaging P-Glycoprotein Induction at the Blood–Brain Barrier of a β -Amyloidosis Mouse Model with ¹¹C-Metoclopramide PET

Viktoria Zoufal, Severin Mairinger, Mirjam Brackhan, Markus Krohn, Thomas Filip, Michael Sauberer, Johann Stanek, Thomas Wanek, Nicolas Tournier, Martin Bauer, Jens Pahnke, and Oliver Langer

FALL APPLICATIONS OPEN SOON!

**Explore SNMMI and
SNMMI-TS Grants
and Awards Listings
for 2021-2022**

WWW.SNMMI.ORG/GRANTS



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 2021 Virtual 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:

Long-term outcome of ^{225}Ac -DOTATATE Targeted Alpha Therapy in Patients with Metastatic Gastroenteropancreatic Neuroendocrine Tumors

Journal of Nuclear Medicine May 2021, 62 (Supplement 1)
Chandrasekhar Bal¹, Sanjana Ballal¹, and Madhav Yadav, All India Institute of Medical Sciences, New Delhi, India

ERF/SNMMI Best COVID-19 Abstract (Physician/Scientist) Award

Quantitative Dynamic ^{18}F -FDG-PET/CT Imaging Revealed Residual Lesions in Discharged COVID-19 Patients

Presenting Author: Jijin Yao, Fifth Affiliated Hospital, Sun Yat-sen University, Zhuhai, China

ERF/SNMMI-TS Best COVID-19 Abstract (Technologist)

Comparison of Four Infusion Methods for Lutathera Peptide Radionuclide Receptor Therapy

Presenting Author: Anne Ellis, Michigan Medicine, Ann Arbor, MI

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:

Oncology, Clinical Diagnosis, and Therapy Poster Award Winners

1st Place

[^{18}F]fluoro-hydroxyphenethylguanidine ([^{18}F]pHPG): A Novel PET Radiotracer for Imaging of Metastatic Paraganglioma in Humans

Presenting Author: Ka Kit Wong, MBBS, University of Michigan Hospital, Ann Arbor, MI

2nd Place

Whole-body dynamic multiparametric PET/CT: temporal stability of standardized uptake values vs. metabolic rates in an oncologic population

Presenting Author: Paul-Robert Derenoncourt, MD, Washington University School of Medicine, St. Louis, MO

3rd Place

^{177}Lu -PSMA-617 versus Cabazitaxel in Metastatic Castration-Resistant Prostate Cancer: a randomised, open-label, phase 2 trial (TheraP)

Presenting Author: Michael S. Hofman, MBBS, Peter MacCallum Cancer and University of Melbourne, Melbourne, Australia

Oncology, Basic Science Poster Award Winners

1st Place

Preoperative PET/CT and fluorescence-guided surgery of prostate cancer with the PSMA-11-derived hybrid molecule PSMA-914: First clinical proof-of-concept

Presenting Author: Ann-Christin Eder, PhD, Department of Nuclear Medicine, University Medical Center Freiburg, Freiburg, Germany

2nd Place

Validation of FAPI PET biodistribution by immunohistochemistry in patients with solid cancers: a prospective exploratory imaging study

Presenting Author: Christine Mona, PhD, UCLA Los Angeles, CA

3rd Place

A radiotheranostic study for strategic treatment of ovarian cancer peritoneal metastases using the all-in-one multimeric radiopeptide ^{64}Cu -cyclam-RAFT-c(-RGDfK)

Presenting Author: Zhao-Hui Jin, Department of Molecular Imaging and Theranostics, National Institutes for Quantum and Radiological Science and Technology, Chiba, Japan

Cardiovascular Poster Award Winners

1st Place

Regional versus global PET function and perfusion computations for detecting cardiac ischemia

Presenting Author: Kenneth J. Nichols, PhD, St. Francis Hospital, Roslyn, NY

2nd Place

Predictive value of the proportion of hibernating myocardium in total perfusion defect on reversing remodeling in patients with ischemic cardiomyopathy and treated by revascularization

Presenting Author: Xiaoli Zhang, MD, PhD, Beijing Anzhen Hospital Capital Medical University, Beijing, China

3rd Place

Two-year change in ^{18}F -sodium fluoride uptake in the carotid arteries of healthy subjects and angina pectoris patients

Presenting Author: Reza Piri, MD, Odense University Hospital, Department of Nuclear Medicine, Odense, Denmark

Molecular Imaging Probes Poster Award Winners

1st Place

Utility of D-[^{11}C]-Glutamine for bacteria targeted PET imaging of infections

Presenting Author: Aditi Mulgaonkar, PhD, University of Texas Southwestern, Dallas, TX

2nd Place

Investigation of Vape Devices as Novel Drug Delivery Systems Using Fluorine-18 Radiolabelling

Presenting Author: George Herbert, MChem, The Department of Biomedical Sciences, University of Hull, Hull, UK

3rd Place

ImmunoPET of CD146 in breast cancer metastatic models

Presenting Author: Lei Kang, MD, PhD, Peking University First Hospital, Beijing, China

Physics, Instrumentation, and Data Science Poster Award Winners

1st Place

The personalized remote radiation tracking (PRRT) vest: experimental results

Presenting Author: Robert Miyaoka, PhD; University of Washington, Seattle, WA

2nd Place

MRI Compatibility Measurements of SIAT aPET

Presenting Author: Ziru Sang; Shenzhen Institutes of Advanced Technology, Shenzhen, China

3rd Place

Using LSO background radiation for CT-less attenuation correction of PET data in long axial FOV PET scanners

Presenting Author: Mohammadreza Teimoorisichani; Siemens Medical Solutions USA Inc., Knoxville, TN

General Clinical Specialties Poster Award Winners

1st Place

Perfusion Only Scans with and without SPECT/CT in the Era of COVID-19

Presenting Author: Ray Rui Zhang; Stanford Hospital and Clinics, Stanford, CA

2nd Place

Clinical Utility of PET/CT Imaging with Peptide Imaging Agent 124I-p5+14 (AT-01) in Patients with Systemic Amyloidosis

Presenting Author: Jonathan Wall, PhD; University of Tennessee Graduate School of Medicine, Knoxville, TN

3rd Place

Chemokine receptor 2 targeted PET imaging in pulmonary fibrosis

Presenting Author: Debbie Sultan; Washington University School of Medicine, Radiological Sciences, St. Louis, MO

Neurosciences Poster Award Winners

1st Place

Monkey, rat, and first in human evaluation of [¹⁸F]PF-06445974, a PET radioligand that preferentially labels phosphodiesterase 4B

Presenting Author: Yuichi Wakabayashi, MD, PhD; National Institute of Mental Health, Molecular Imaging Branch, Bethesda, MD

2nd Place

Exploratory multimodal fusion analysis of resting-state activity and mGlu5 receptor availability in alcohol use disorder

Presenting Author: Kelly Smart, PhD; Yale PET Center, Yale University School of Medicine, New Haven, CT

3rd Place

Influence of A β and neurofibrillary tau deposition on cognition in Down syndrome across the Alzheimer's disease continuum

Presenting Author: Matthew Zammit; University of Wisconsin-Madison, Madison, WI

Educational Exhibits Poster Award Winners

1st Place

Diverse spectrum of uncommon tissue involvement in IgG4-related diseases on ¹⁸F-FDG PET/CT

Presenting Author: Ashwin S. Parihar, MBBS, MD; Nuclear Medicine, Postgraduate Institute of Medical Education and Research, Chandigarh, India

2nd Place

A Review of Common Thoracic Surgical Procedures For The Nuclear Medicine Physician Utilizing Simple Unique Clay Models

Presenting Author: Perry Gerard, MD, MBA; Westchester Medical Center, Valhalla, NY

3rd Place

Clinical Value of PET/CT and PET/MRI for the Assessment of Rheumatic Diseases

Presenting Author: Siavash Mehdizadeh Seraj, MD; Radiology and Biomedical Imaging, Yale University, New Haven, CT

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

In-vivo tau pathology is associated with synaptic loss and altered synaptic function

Presenting Author: Emma M. Coomans; Department of Radiology & Nuclear Medicine, Amsterdam Neuroscience, Vrije Universiteit Amsterdam, Amsterdam UMC, Amsterdam, Netherlands

2nd Place

Neurofibrillary tau emerges in adults with Down syndrome during the earliest stages of A β accumulation

Presenting Author: Matthew Zammit; University of Wisconsin, Madison, WI

3rd Place

Altered regional cerebral function and its association with cognitive impairment in COVID 19: A prospective FDG PET study

Presenting Author: Ganna Blazhenets, M. Sc.; Department of Nuclear Medicine, Medical Center – University of Freiburg, Faculty of Medicine, University of Freiburg, Freiburg, Germany

Cardiovascular Council Young Investigator Award Winners

BASIC SCIENCE/PRECLINICAL:

1st Place

Imaging of mitochondrial function in doxorubicin-induced cardiotoxicity

Presenting Author: Felicitas J. Detmer, PhD; Gordon Center for Medical Imaging, Massachusetts General Hospital, Harvard Medical School, Boston, MA

2nd Place

Myocardial glucose suppression interferes with the detection of inflammatory cells with FDG- PET in a canine model of myocardial infarction

Presenting Author: Benjamin Wilk; Western University, London, Ontario, Canada

3rd Place

Assessment of lower extremities flow using dynamic Rb-82 PET: Acquisition protocols and quantification methods

Presenting Author: Zhao Liu, PhD; Yale University, New Haven, CT

SNMMI Annual Meeting Awards

Cardiovascular Council Young Investigator Award Winners

CLINICAL:

1st Place

Improved risk assessment of myocardial SPECT using deep learning: report from REFINE SPECT registry

Presenting Author: Ananya Singh, MS; Department of Imaging Cedars-Sinai Medical Center, Los Angeles, CA

2nd Place

⁶⁸Ga-DOTATOC PET/CT to detect immune checkpoint inhibitor-related myocarditis

Presenting Author: Sarah Boughdad, MD, PhD; CHUV, Lausanne, Switzerland

3rd Place

Dynamic analysis of ¹¹C-PIB PET/CT in amyloid light-chain cardiac amyloidosis

Presenting Author: Xuezhu Wang; 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

Physics, Instrumentation, and Data Sciences Council Young Investigator Awards

1st Place

Design study of a high-resolution and ultrahigh-sensitivity brain SPECT system for imaging medically intractable epilepsy

Presenting Author: Elena Maria Zannoni; Bioengineering, University of Illinois, Urbana Champaign, Champaign, IL

2nd Place

Data-driven motion compensation using cGAN for total-body [18F] FDG-PET imaging

Presenting Author: Lalith K. Shiyam Sundar; QIMP team, Medical University of Vienna, Vienna, Austria

3rd Place

36-to-1 Multiplexing with Prism-PET for High Resolution TOF-DOI PET

Presenting Author: Andy LaBella; Stony Brook University, Stony Brook, NY

Honorable Mention

Super-resolution in brain PET Using a Real Time Motion Capture System

First author: Yanis Chemli; Gordon Center for Medical Imaging, Boston, MA and LTCl, Telecom Paris, Institut Polytechnique de Paris, Paris, France

Unsupervised background removal by dual-modality PET/CT guidance: application to PSMA imaging of metastases

First author: Ivan S. Klyuzhin; BC Cancer Research Institute, Vancouver, BC Canada, Microsoft, Redmond, WA and University of British Columbia; Vancouver, BC, Canada

Pre-selecting radiomic features based on their robustness to changes in imaging properties of multicentre data: impact on predictive modelling performance compared to ComBat harmonization of all available features

First author: Da-ano Ronrick; LatiM UMR-1101 INSERM, Brest, France

Self-supervised Bone Scan Denoising

First author: Si Young Yie; Interdisciplinary Program in Bioengineering Seoul National University; Seoul, Korea, Republic of

Radiopharmaceutical Sciences Council Young Investigator Awards

1st Place

Radiosynthesis and evaluation of (R)- and (S)-18F-OF-NB1 for imaging the GluN2B subunits of the NMDA receptor in non-human primates

Presenting Author: Ahmed Haider; Department of Radiology, Division of Nuclear Medicine and Molecular Imaging, Massachusetts General Hospital and Harvard Medical School, Boston, MA

2nd Place

Evaluation of CB2 PET Radioligand ¹⁸F RoSMA-18-d6 in Non-Human Primates and Experimental Autoimmune Encephalomyelitis

Presenting Author: Lalith K. Shiyam Sundar; QIMP team, Medical University of Vienna, Vienna, Austria

3rd Place

Synthesis and preclinical characterization of a metabolically stable SV2A PET imaging probe: [¹⁸F]SDM-16

Presenting Author: Chao Zheng; Yale School of Medicine, New Haven, CT

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: Response monitoring in metastatic breast cancer: a comparison of survival times between FDG-PET/CT and CE-CT

Mohammad Naghavi-Behzad, MD, MPH

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: Clinical evaluation of block sequential regularized expectation maximization reconstruction algorithm in pediatric total-body ¹⁸F-FDG PET/CT

Yu-Mo Zhao

Center for Molecular Imaging Innovation and Translation Young Investigator Awards

1st Place

Optimal [18F]-Misonidazole PET threshold to locate SCC7 tumor hypoxia using EPR pO₂ as ground truth

Presenting Author: Inna H. Gertsenshteyn; Radiology, University of Chicago, Chicago, IL

2nd Place

Synthesis and characterization of [¹⁸F]mG2P026 as a high contrast PET imaging ligand for metabotropic glutamate receptor 2

Presenting Author: Gengyang Yuan; Gordon Center for Medical Imaging, Massachusetts General Hospital and Harvard Medical School, Boston, MA

3rd Place

Bispecific INV721 antibody improves specific targeting in neuroblastoma to limit neuropathic pain

Presenting Author: Zachary Rosenkrans; University of Wisconsin-Madison, Madison, WI

Therapy Center of Excellence Young Investigator Awards

1st Place

Progression and toxicity following liver Y90 radioembolization: impact of dose metrics, clinical factors, and biomarkers

Presenting Author: Theresa P. Devasia; University of Michigan, Ann Arbor, MI United States

2nd Place

Metastatic Disease Response and Patterns of Recurrence in Men with High-Risk Prostate Cancer after Neo-Adjuvant Chemohormonal Therapy and Radical Prostatectomy utilizing PSMA-Targeted ¹⁸F-DCFPyL PET/CT

Presenting Author: Petra Lovrec, MD; Department of Radiology University of Wisconsin-Madison, Madison, WI

3rd Place

Safety and efficacy of radioligand therapy with ¹⁷⁷lutetium-PSMA-617 within 3 months after ²²³Radium-dichloride

Presenting Author: Justus Baumgarten, MD; Nuclear Medicine University Hospital Frankfurt, Frankfurt, Germany

Early Career Professionals Abstract Award Winners

BASIC SCIENCE:

1st Place

Validation of FAPi PET biodistribution by immunohistochemistry in patients with solid cancers: a prospective exploratory imaging study

Presenting Author: Christine Mona, PhD; UCLA, Los Angeles, CA

2nd Place

Rapid and mild synthesis of unsymmetrical [¹¹C]ureas from [¹¹C] carbonyl difluoride and amines

Presenting Author: Jimmy E. Jakobsson, PhD; National Institutes of Mental Health, Bethesda, MD

3rd Place

Photodynamic therapy induced by a combination of scintillating liposome & radiolabeled antibody

Presenting Author: Wooseung Lee; Applied Bioengineering Graduate School of Convergence Science and Technology, Seoul National University; Seoul, Korea, Republic of

Early Career Professionals Abstract Award Winners

CLINICAL:

1st Place

Role of ⁶⁸G-fibroblast activation protein inhibitor (API) PET/CT in the evaluation of peritoneal carcinomatosis and comparison with ¹⁸F-FDG PET/CT

Presenting Author: Haojun Chen, MD; Department of Nuclear Medicine, The First Affiliated Hospital of Xiamen University, Xiamen, China

2nd Place

A Head-to-Head Comparison of ⁶⁸Ga-DOTA-FAPI-04 and ¹⁸F-FDG PET/MR in Patients with Nasopharyngeal Carcinoma: A Prospective Study

Presenting Author: Chunxia Qin, MD, PhD; Department of Nuclear Medicine, Union Hospital, Tongji Medical College, Huazhong University of Science and Technology, Wuhan, China

3rd Place

Metastatic Disease Response and Patterns of Recurrence in Men with High-Risk Prostate Cancer after Neo-Adjuvant Chemohormonal Therapy and Radical Prostatectomy utilizing PSMA-Targeted ¹⁸F-DCFPyL PET/CT

Presenting Author: Petra Lovrec, MD; Department of Radiology, University of Wisconsin-Madison, Madison, WI

Technologist Abstract and Poster Awards Technologist Best Abstract Award Winners

1st Place

Blanching defects at the pressure points: a potential pitfall in dynamic Total-Body PET/CT studies

Presenting Author: Kristin McBride; Radiology, University of California, Davis, Sacramento, CA

2nd Place

Comparison of Four Infusion Methods for Lutathera Peptide Radionuclide Receptor Therapy

Presenting Author: Anne Ellis; Michigan Medicine, Ann Arbor, MI

3rd Place

Advanced PET imaging simultaneously improves image noise and patient throughput in ⁶⁸Ga DOTATATE cans

Presenting Author: Katie Moses; Radiology, University of Colorado Hospital, UCHealth, Aurora, CO

SNMMI-TS/PET CoE Technologist Best PET Abstract Award

Blanching defects at the pressure points: a potential pitfall in dynamic Total-Body PET/CT studies

Presenting Author: Kristin McBride; Radiology, University of California Davis, Sacramento, CA

SNMMI-TS/Therapy CoE Technologist Best Therapy Abstract Award

Comparison of Four Infusion Methods for Lutathera Peptide Radionuclide Receptor Therapy

Presenting Author: Anne Ellis; Michigan Medicine, Ann Arbor, MI

SNMMI Annual Meeting Awards

SNMMI-TS Technologist Poster Awards

1st Place

Effects of image matrix on quantitative metrics in ⁶⁸Ga DOTATATE studies: Changes in SUV and signal-to-noise ratio in modern digital PET detectors

Presenting Author: Amer Pierret; Radiology, University of Colorado Hospital, UCHealth, Aurora, CO

2nd Place

Tranquility Scoring to Optimize Pediatric Imaging and Reduce Radiation on Total-Body PET Scanners

Presenting Author: Heather Hunt; UC Davis Medical Center; Sacramento, CA

3rd Place

Co-Teaching in Nuclear Medicine Technology

Presenting Author: C. David Gilmore; Massachusetts College of Pharmacy & Health Sciences University, Boston, MA

SNMMI-TS/Cardiovascular Council Best Poster Awards

1st Place

Synthesis of ^{99m}Tc-labeled Peptide p5+14 for Detection of Cardiac Amyloidosis - Preclinical Studies in a Mouse Model

Presenting Author: Alan Stuckey; University of Tennessee Graduate School of Medicine, Knoxville, TN

2nd Place

Seeing the big picture: The importance of reviewing the entire field of view in Myocardial Perfusion Imaging and the role of the Nuclear Medicine Technologist

Presenting Author: Sarah Frye; Saint Louis University, Saint Louis, MO

3rd Place

Optimization of Injected Dose for Myocardial Flow Quantification in ¹³N ammonia PET with Time of Flight Scanner. Noise Equivalent Count Rate analysis

Presenting Author: Yoko Kaimoto; Tokyo Women's Medical University, Tokyo, Japan

ANZSNM/SNMMI-TS Best Abstract Award 2021

16 vs 8 Bin Evaluation of Left Ventricle Ejection Fraction in Myocardial Perfusion Imaging

Presenting Author: Brylee Thomson; Austin Health, Australia

ANZSNM/SNMMI-TS Best Abstract Award 2020

Interobserver variability in interpretation of Ventilation-Perfusion lung scans (VQ scans)

Presenting Author: Sarah Thomas; Department of Molecular Imaging and Therapy, Austin Health, Australia

Technologist Student Abstract Award Winners

1st Place

Simulating reduced dose PET imaging to determine impacts on diagnostic image quality

Presenting Author: Robin L. Schroeder; Northwestern Memorial Hospital, Chicago, IL

2nd Place

¹⁷⁷Lu-Dotatate therapy for inoperable or metastasized gastroenteropancreatic neuroendocrine tumors: How often do patients discontinue treatment early and why?

Presenting Author: Gabriela Feliciano; Rhode Island Hospital, North Providence, RI

3rd Place

The Effects of Temperature Change on Tc-99m MAA Radiochemical Purity

Presenting Author: Fatimah Almuallim; Indiana University School of Medicine, Indianapolis, IN

International Best Abstract Award Winners

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

Australia

¹⁷⁷Lu-PSMA-617 Versus Cabazitaxel in Metastatic Castration-Resistant Prostate Cancer: A Randomised, Open-Label, Phase 2 Trial (TheraP)

Michael Hofman

Austria

Data-Driven Motion Compensation Using cGAN For Total-Body [¹⁸F] FDG-PET Imaging

Lalith K. Shiyam Sundar

Belgium

⁶⁸Ga-PSMA PET/CT for Response Assessment and Outcome Prediction in Metastatic Prostate Cancer Undergoing Taxane-based Chemotherapy

Qaid Shagera

Brazil

Pre-operative Evaluation of Prostate Cancer by Positron Emission Tomography / Computed Tomography (PET-CT) With PSMA-68GA: Correlation with Prostate Magnetic Resonance And Histopathological Findings

Camila Stasiak

Canada

Hybrid Machine Learning Methods and Ensemble Voting for Identification of Parkinson's Disease Subtypes

Arman Rahmim

Chile

Image Quality with Low Dose ¹⁸F-FDG Digital PET/CT: Preliminary Results in 3 Healthy Volunteers

Ana Hurtado

China

Role of ⁶⁸Ga-fibroblast activation protein inhibitor (FAPI) PET/CT in the evaluation of peritoneal carcinomatosis and comparison with ¹⁸F FDG PET/CT

Haojun Chen

Denmark

Response monitoring in metastatic breast cancer: a comparison of survival times between FDG-PET/CT and CE-CT

Mohammad Naghavi-Behzad

Egypt

Association of robust radiomic features from staging ^{18}F -FDG PET/CT in lung cancer with EGFR expression and overall survival

Rehab Mostafa

France

Comparison of stress myocardial Flow Response using regadenoson and dipyridamole in SPECT

Matthieu Bailly

Germany

Test-Retest Reproducibility of Conventional Quantitative Parameters on PSMA-targeted ^{18}F -DCFPyL PET/CT in Patients with Metastatic Prostate Cancer

Rudolf Werner

Greece

Increased metabolic activity of the adrenal glands assessed by ^{18}F -FDG PET/CT in patients with Erdheim-Chester disease associated with the BRAF V600E disease causing variant

Georgios Papadakis

Hong Kong

^{18}F FDG-PET/MR Imaging of Brown and Beige Adipose Tissues in Preclinical Model

Kel Tan

India

Long-term outcome of ^{225}Ac -DOTATATE Targeted Alpha Therapy in Patients with Metastatic Gastroenteropancreatic Neuroendocrine Tumors

Chandrasekhar Bal

Indonesia

Model Selection Based on Population Fitting at an Example of ^{177}Lu -PSMA Kinetics in Kidneys with a Low Number of Data

Deni Hardiansyah

Iran, Islamic Republic of

Prediction of human papillomavirus associated oropharyngeal cancer using multiple machine learning algorithms and PET/CT image radiomics features

Atlas Haddadi Avval

Ireland

A Simple Adaptive Bandwidth Scheme that Improves Image Quality and Kinetic Quantitation in Dynamic PET Scans

Fengyun Gu

Israel

Can absorbed radiation doses by organs and tumors after PRRT be estimated from a single SPECT/CT study?

Chicheportiche Alexandre

Italy

Prediction of Lymph Node Metastasis From ^{18}F -Fdg Pet/Ct Radiomics of Cervical Cancer

Lavinia Monaco

Japan

Predictive Factors of the Therapeutic Effect of I-131 Therapy for Hyperthyroidism

Haruna Ikeda

Korea, Republic of

Photodynamic therapy induced by a combination of scintillating liposome & radiolabeled antibody

Wooseung Lee

Kuwait

Variation in Delivery Methods of ^{18}F -FDG for Patients: A Single Institution Observation

Sulaiman Alraish

Macao

Personalized Voxel-S-Value Methods for Monte-Carlo-like Quantitative Y-90 PET Dosimetry

Gefei Chen

Mexico

Comparative evaluation of castrate resistant metastatic Prostate Cancer with ^{68}Ga DOTA RGD PET/CT and ^{68}Ga PSMA: Pilot study

Francisco Garcia Perez

Morocco

The usefulness of normalized residual activity (NORA) in the analysis of Tc-99m DTPA diuresis renography

Yassir Benameur

Netherlands

In-vivo tau pathology is associated with synaptic loss and altered synaptic function

Emma Coomans

New Zealand

Lutetium-177: a flexible radionuclide therapeutic options

Madhusudan Vyas

Norway

Development of the first CDK7 specific PET imaging probe based on a carbon-11 labeled pyrazolotriazine derivative for visualization of glioblastoma

Mathias Kranz

Philippines

Comparison of Gallium-68 Prostate-Specific Membrane Antigen (Ga-68 PSMA) Normal Tissue Uptake across Tumor Burden Groups among Patients with Prostate Cancer

Mary Stephanie Jo Estrada

Romania

Preclinical assessment of nanoparticles conjugated with ^{64}Cu -DOTA-PEG-BBN targeting gastrin-releasing peptide receptors

Dana Niculae

SNMMI Annual Meeting Awards

South Africa

PET imaging of arterial inflammation in people living with HIV infection: A comparison between ^{68}Ga -Pentixafor and ^{18}F -FDG
Ismaheel Lawal

Spain

Long-term evaluation of amyloid deposition in basal ganglia in patients with mild cognitive impairment by ^{11}C -PIB PET/CT. Correlation with cortical brain amyloid load and clinical evolution
Julio Jimenez-Bonilla

Sweden

AI-based quantification of PET/CT lesions is associated with survival in lung cancer patients
Pablo Borrelli

Switzerland

^{68}Ga -DOTATOC PET/CT to detect immune checkpoint inhibitor-related myocarditis
Sarah Boughdad

Taiwan

Artificial Intelligence in Nuclear Medicine for Brain Imaging
Shih-Wei Lo

Thailand

Brain amyloid PET scan in Alzheimers disease, mild cognitive impairment and normal aging: The first prospective longitudinal study in Thailand
Tanyaluck Thientunyakit

Turkey

Evaluation of myocardial perfusion scintigraphy SPECT and CT images in patients with a history of COVID-19
Aysegul Aksu

Ukraine

The clinical use of three-phase bone scintigraphy in identifying complications after hip replacement in liquidators of accident at the Chernobyl Nuclear Power Plant with septic and aseptic osteoarthritis
Pavlo Korol

United Kingdom

Investigation of Vape Devices as Novel Drug Delivery Systems Using Fluorine-18 Radiolabelling
George Herbert

Uruguay

Intraindividual Comparison of novel ^{18}F -PSMA-1007 and AI ^{18}F -PSMA-HBED-CC PET/CT in the Prospective Evaluation of Prostate Cancer Patients with Biochemical Relapse: First experience in Uruguay
Gerardo Dos Santos

Vietnam

BIUx2x2
Bui Cong

Yemen

Tonsil is the most frequent primary source of the cancer of unknown primary in the neck by the FDG PET CT
Galal Alobthani

2021 ERF SNMMI-TS Technologist & Student Professional Development Grant Awards

Supports the travel and/or registration expenses for nuclear medicine technologists or students presenting abstracts at onsite or virtual SNMMI Annual Meetings.

Blanching Defects at the Pressure Points: A Potential Pitfall in Dynamic Total-Body PET/CT Studies

Yasser Abdelhafez

Assessment of $^{99\text{m}}\text{Tc}$ -bicisate (Neurolite®) Sterility When Used for Ictal Studies

Jenna Allen

The Effects of Temperature Change on Tc-99m MAA Radiochemical Purity

Fatimah Almuallim

^{18}F -FDG PET/CT Evaluation of Desmoid Fibromatosis

Nicole Winiarczyk

Evaluating the Necessity of Ventilation Lung Imaging, Based on Perfusion Only Imaging During the COVID-19 Pandemic

Lauren Brickley

Promising ^{177}Lu -PSMA-617 Therapy Results in Patients with Metastatic Castration-Resistant Prostate Cancer

Antonio Brnjic

Evaluation of the Stability of Various $^{99\text{m}}\text{Tc}$ -Filtered Sulfur Colloid Unit Dose Configurations Used for Lymphoscintigraphy

Joanna Cala

Effects of Oxygen Exposure on Tc-99m PYP Stability

Nicole Dau

2021 ERF-SNMMI-TS and Student Professional Development Grant Awards

Comparison of Fatty Meal Interventional Agents to CCK for GBEF Studies

Amanda DeBruin

A Case Study Confirming the Reliability of Gated N13 Ammonia PET/CT Over Tc-99m Sestamibi D-SPECT in Diagnosing Cardiovascular Disease

Samar El Khatib

Comparison of Four Infusion Methods for Lutathera Peptide Radionuclide Receptor Therapy

Anne Ellis

The Effects of MRI on RF-Based Contactless Smart Cards

Andrew Bulla

Cerium Oxide Nanoparticles Modulate Cellular Health and Oxidative Stress in Breast Carcinoma Cells

Remo George

Co-Teaching in Nuclear Medicine Technology

C. David Gilmore

Tranquility Scoring to Optimize Pediatric Imaging and Reduce Radiation Exposure on Total-Body PET Scanners

Heather Hunt

Predictive Factors of the Therapeutic Effect of I-131 Therapy for Hyperthyroidism

Haruna Ikeda

Development of High Resolution Modular Four Side Butttable Small Field of View Detectors for Three Dimensional Gamma Imaging

Pushkar Jha

How PET/CT Image Reconstruction Zoom Effects SUV Max and SUV Mean Measurements in Head and Neck Cancers

Natalia Koniecka

The Possibility of the Continuous Bed Motion Method Replacing the Traditional Step-and-Shoot Method by Using a SiPM-PET/CT Scanner

Kodai Kumamoto

Evaluation of Manufacture Specific Reconstruction Algorithms Available PET/CT Imaging of Y-90 Glass Microspheres

Kaye Lesure

Training for Clinical Instructors of Nuclear Medicine

Jessica Long

Importance of Injection Site Image in DaTscans

Ashley Meyer

Comparison of Two Skeletal Segmentation Methods for Measuring BSI in Bone Scan

Kazuki Motegi

Temporal and Axial Quantitative Uniformity Measurements of Total-body PET Systems

Mike Nguyen

Continued evaluation of a complete μ -map generation in PET/MR Breast imaging

Kaylynn Pinder

A Prototype Ultra-High-Resolution Small-Animal PET System

Jiguo Liu

A Student Technologist's Perspective Regarding the Increase in Pharmacological Stress Testing Due to the SARS-CoV-2pandemic in a Large Urban Area

Austin Ritchie

Impacts of Improved TOF Timing Resolutions on Cold Contrast of PET Images

Hideaki Sato

Simulating Reduced Dose PET Imaging to Determine Impacts on Diagnostic Image Quality

Robin Schroeder

Impact of SwiftScan Technique on Quantitative Bone Single Photon Emission Computed Tomography

Takuro Shiiba

Effects of Image Matrix on Quantitative Metrics in ^{68}Ga DOTATATE studies: Changes in SUV and Signal-to-Noise Ratio in Modern Digital PET Detectors

Amber Pierret

Impact of Metastatic Disease on Transit Time in Sentinel Node Lymphoscintigraphy

Gabrielle Smith

Effects of Thyroid Uptake Probe Placement on ^{123}I Capsule Counts

Rebecca Sondrol

Synthesis of $^{99\text{m}}\text{Tc}$ -labeled Peptide p5+14 for Detection of Cardiac Amyloidosis - Preclinical Studies in a Mouse Model

Alan Stuckey

Technologist Based Implementation of Total Metabolic Tumor Volume into Clinical Practice

Jaiden Sullivan

Impact of Implanted Chest Port Utilization for the Administration of F18-FDG in PET/CT Imaging

Jessica Swenson

PET/CT Annual AAPM Quality Control: Practical Implications for Technologists

Douglass Vines

Lutetium-177: A Flexible Radionuclide Therapeutic Options

Madhusudan Vyas

Phase II, Open Label, Multi-Dose Study of 89-Zr-Df-IAB22M2C (CD8 Immuno-PET Tracer): Technical Handling and Injection Instructions for Optimal Tracer Administration

Quinten Sanders

SPECT/CT Pulmonary Perfusion Studies: Searching for a Solution During a Pandemic

Jacob Whipple

A More Clinically Relevant Assessment of PET Spatial Resolution

Madelyn Zimmer

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.

2021 Recipients



Yesh Datar
Boston University



Shanmukha Srinivas
University of California San Diego



Servando Hernandez Vargas
University of Texas Health Science
Center at Houston (UTHealth)

Wagner-Torizuka Fellowship Program

A one or two-year fellowship in the United States and Canada for Japanese physicians in the early stages of their careers, designed to advance research and clinical expertise and equip them to make significant contributions to the field of nuclear medicine and molecular imaging in Japan. The purpose of the program is to provide experience and training in nuclear medicine/molecular imaging modalities in the areas of cardiology, neurology, and oncology.

2021 Recipient



Yoshito Kadoya, MD

Funded by



SNMMI Interns

The SNMMI Council/Center Internship Program provides early career professionals the opportunity to get involved with the Society at the Council and Center level. Each Council/Center, along with the Clinical Trials Network, select an intern for a two-year term as a non-voting member of its Board of Directors. The 2021-2023 SNMMI Interns are:

- Academic Council Intern: **Andreza Dambroz, MS**
- Brain Imaging Council Intern: **Saeed Elojeimy, MD, PhD**
- Cardiovascular Council Intern(s): **Attila Feher, MD and Krishna Patel, MD, MSc**
- Center for Molecular Imaging Innovation & Translation Intern: **Soheil Kooraki, MD**
- Clinical Trials Network Intern: **Patricia Edem, PhD**
- Correlative Imaging Council Intern: **Charles Marcus, MD**
- General Clinical Nuclear Medicine Council Intern: **Ashlee Thomas, CNMT, NMTCB(CT)**
- Pediatric Imaging Council Intern: **Jennifer Gillman, MD, MSCI**
- PET Center of Excellence Intern(s): **Hyesun Park, MD and Andrea Rapp, BS, CNMT, NMTCB (RS), RT (N)(CT)(ARRT)**
- Physics, Instrumentation and Data Sciences Council Intern: **Benjamin Auer, PhD**
- Radiopharmaceutical Sciences Council Intern: **Alexandra Dumond, PhD**
- Therapy Center of Excellence Intern: **Jaleelat Momodu, MBBS, MPH, FCNP, MMED**

SNMMI Ones to Watch 2021

SNMMI is pleased to announce our annual list of 30 early career professionals selected as “Ones to Watch” in 2021. Launched in 2018, SNMMI’s Ones to Watch campaign aims to recognize those with the potential to shape the future of precision medicine across all spectrums of the field. Members can nominate themselves or someone they know whose actions, work, or studies have set them apart as a future thought leader in nuclear medicine and molecular imaging. Recipients are selected with the help of the SNMMI Committee on Councils and Centers and the SNMMI-TS Professional Development Committee. We are proud to showcase rising talent in the field, offering a platform to increase recognition for early career professionals within our specialty. Congratulations to the following honorees!



Olayinka Abiodun-Ojo, MD, MPH
*Research Scientist
Emory University School of Medicine*



Shreya Goel, PhD
Postdoctoral Fellow/Research Investigator, University of Texas MD Anderson Cancer Center, Department of Cancer Systems Imaging



Eduardo Aluicio-Sarduy
*Assistant Scientist
University of Wisconsin, Madison-
Department of Medical Physics*



Junior Gonzales
*Research Associate
Department of Radiology, Memorial Sloan Kettering Cancer Center*



Benjamin Auer, PhD
*Medical Physicist
University of Massachusetts Medical School / Department of Radiology*



Javier Hernández-Gil
*Research Fellow
Memorial Sloan Kettering Cancer Center*



Eric Berg, PhD
*Research Project Scientist
Biomedical Engineering-
University of California, Davis*



Hyung-Jun Im, MD, PhD
*Assistant Professor
Seoul National University, Korea*



Jessica J. Comstock, PharmD, BCNP
Nuclear Pharmacist / Director Quality and Regulatory, PharmaLogic Holdings



Amir Iravani, MD
*Physician attending
Washington University in St. Louis*



Matthew F. Covington, MD
*Assistant Professor of Radiology,
Nuclear Medicine and Breast Imaging Sections, University of Utah and Huntsman Cancer Institute*



Simone Susanne Krebs, MD, MS
*Nuclear Medicine Physician,
Assistant Attending, Memorial Sloan Kettering Cancer Center*



Carolina de Aguiar Ferreira, PhD
*Research Associate
University of Wisconsin-Madison*



Courtney Lawhn-Heath, MD
*Physician
University of California, San Francisco*



Zhibo Liu, PhD
Tenure Track Assistant Professor
Beijing University



Chaitanya Rojulpote, MD
Resident
The Wright Center for Graduate
Medical Education



Domnique S. Newallo
Nuclear Medicine Resident
Emory University



Brian Horacio Santich, PhD
Director of Pretargeted
Radioimmunotherapy Research
Y-mAbs Therapeutics, Inc



Thomas Ng, MD, PhD
Resident physician, Assistant professor,
Attending Radiologist, Harvard Medical
School, Division of Nuclear Medicine and
Molecular Imaging, Department of Radiology,
Massachusetts General Hospital



Lino M. Sawicki, MD, PhD
Radiologist, Hybrid Imaging
Specialist, Heinrich-Heine
University, Düsseldorf, Germany



Negar Omidvari, PhD
Postdoctoral Scholar
EXPLORER Molecular Imaging Center,
UC Davis



Jennifer Anne Schroeder, MD
Assistant Professor of Nuclear
Medicine/Radiology
Wake Forest University/Baptist
Medical Center



Alejandro D. Arroyo Pacheco, PhD
Research Scholar
Memorial Sloan Kettering Cancer Center



Mark A. Sellmyer, MD, PhD
Resident
Assistant Professor
Perelman School of Medicine at the
University of Pennsylvania



Austin Pantel, MD, MSTR
Assistant Professor of Radiology
University of Pennsylvania



Senthil Selvaraj, MD
Senior Cardiology Fellow
University of Pennsylvania



Sonya Youngju Park, MD
Physician (Nuclear medicine)
St. Mary's Hospital, Department of
Nuclear Medicine Seoul, South Korea



Hong Song, MD, PhD
Dual Path NM/DR Resident
Stanford Health Care, Stanford
University



Giacomo Pirovano, PhD
Research Associate
Department of Radiology, Memorial
Sloan Kettering Cancer Center



Ning Zhao, PhD
Postdoctoral Fellow
University of California
San Francisco

JUST ANNOUNCED!

Sam Gambhir Trailblazer Award



The new Sam Gambhir Trailblazer Award honors outstanding achievement and excellence in transformative research (either basic science, translational science, or clinical science) and exceptional mentorship for mid-career professionals. Award recipients will be acknowledged at the SNMMI Annual Meeting during the Wagner Highlights Lecture. This new 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.

Applications Open October 1, 2021.

Sign up to be contacted: www.snmmi.org/GambhirAward