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:

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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.

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.

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. 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.

2021 Recipient
Steven M. Larson, MD, FACNM – Chief, Nuclear Medicine Service, Memorial Sloan-Kettering Cancer Center, New York, NY
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.
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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Bital 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; Alexandra 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, FSNMMSI-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 technology technicians 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
Lori Smith
Bridgette Asuquo
Jackie Stevens
Anna Beam
Eileen Tang
Brandon Nielsen
Khalil Webb
Harmun Sehmby
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

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

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 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 Chareonthaitawee, 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*

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**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*

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**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*

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**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*

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**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*

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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

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

**PET 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

**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

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

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 89Zr-Antibody PET Studies up to 30 Days After Injection

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 89Zr-Antibody PET Studies up to 30 Days After Injection
Publication Awards

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 Crespiigny, and Sandra Sanabria Bohorquez
Genentech, Inc., South San Francisco, California
FOR: Optimization of $^{89}$Zr PET Imaging for Improved Multisite Quantification and Lesion Detection Using an Anthropomorphic Phantom

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

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: $^{90}$Y-Labeled Resin Microsphere Spills: A Pilot Study to Determine Efficient Cleanup Practices

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

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
SNMMI ANNUAL GRANTS AND AWARDS RECOGNITION

2021 Alavi–Mandell Awards
FOR JNM ARTICLES PUBLISHED IN 2020

The Impact of Radiobiologically Informed Dose Prescription on the Clinical Benefit of 90 Y 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 68 Ga-DOTATOC PET/MRI with Diffusion-Weighted Imaging to Assess Imaging Markers for Gastroenteropancreatic Neuroendocrine Tumors: Preliminary Results
Lisa C. Adams*, Keno K. Bressem*, 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 18 F-FDG Imaging of PSMA-Suppressed Tumors
Martin K. Bakht, Jessica M. Lovnicki, Janice Tubman, Keith F. Stringer, Jonathan Chiaramonte, Michael R. Reynolds, Iulian Derecichei, Rosa-Maria Ferriau, 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

11 C-Methionine PET Identifies Astroglia Involvement in Heart–Brain Inflammation Networking After Acute Myocardial Infarction
Pablo Bascuñana, Annika Hess, Tobias Borchert, Yong Wang, Kai C. Wollert, Frank M. Bengal, and James T. Thackeray

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

Predictive Value of 18 F-Floretapir and 18 F-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

4Cu-DOTATATE PET/CT and Prediction of Overall and Progression-Free Survival in Patients with Neuroendocrine Neoplasms
Esben 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
Lukas M. Carter, Kelly E. Henry, Andre Platzman, and Jason S. Lewis

Combination Strategies to Improve Targeted Radiouclide Therapy
Tiffany G. Chan, Edward O’Neill, Christine Habjan, and Bart Cornelissen

18 F-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 68 Ga-PSMA-11 PET–Positive Osseous Lesions in Prostate Cancer
Le Wen Chiu, Courtney Lawlh-Heath, Spencer C. Behr, Roxanna Juarez, Paola M. Perez, Iryna Lobach, Matthew D. Bucknor, Thomas A. Hope, and Robert R. Flavell

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

(*contributed equally)
Intraoperative $^{68}$Ga-PSMA Cerenkov Luminescence Imaging for Surgical Margins in Radical Prostatectomy: A Feasibility Study
Christopher Darr*, Nina N. Harke*, Jan Philipp Radtke, Leubet Yirga, Claudia Kesch, Maarten R. Grootendorst, Wolfgang P. Fendler, Pedro Fragoso Costa, Christoph Rischpler, Christine Praus, Johannes Haubold, Henning Reis, Thomas Hager, Ken Herrmann, Ina Binse*, and Boris Hadaschik*

$^{68}$Ga-PSMA–Guided Bone Biopsies for Molecular Diagnostics in Patients with Metastatic Prostate Cancer
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. Lokkema, Niven Mehra, Marcel Segberst, and Astrid A.M. van der Veldt

Back-Table Fluorescence-Guided Imaging for Circumferential Resection Margin Evaluation Using Bevacizumab-800CW in Patients with Locally Advanced Rectal Cancer

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, Gilles N. Stormezand, Rudi A.J.O. Dierckx, Peter Jan van Laar, and Anouk van der Hoon

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
Andrea Farolfi, Harun Ilhan, Andrei Gafita, Jeremie Calais, Francesco Barbato, Manuel Weber, Ali Afshar-Oromieh, Fabian Spohn, Axel Wetter, Christoph Rischpler, Boris Hadaschik, Davide Pianori, Stefano Fanti, Uwe Haberkorn, Matthias Eiber, Ken Herrmann*, and Wolfgang Peter Fendler*

Clinical Translation of a $^{68}$Ga-Labeled Integrin αvβ6–Targeting Cyclic Radiotracer for PET Imaging of Pancreatic Cancer
Xun Feng, Yanpu Wang, Dehua Lu, Xiaoxia Xu, Xin Zhou, Huiyuan Zhang, Ting Zhang, Hua Zhu, Zhi Yang, Fan Wang, Nan Li, and Zhaofei Liu

Alteration of Cellular Reduction Potential Will Change $^{64}$Cu-ATSM Signal With or Without Hypoxia
John M. Floberg, Lingjue Wang, Nilantha Bandara, Ramachandran Rashmi, Cedric Mpyo, Joel R. Garbow, Buck E. Rogers, Gary J. Patti, and Julie K. Schwarz

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

Multimodality Imaging of Inflammation and Ventricular Remodeling in Pressure-Overload Heart Failure
Aylina Glasenapp, Katja Derlin, Yong Wang, Marion Bankstahl, Martin Meier, Kai C. Wollert, Frank M. Bengel, and James T. Thackeray

High-Throughput PET/CT Imaging Using a Multiple-Mouse Imaging System
Hannah E. Greenwood, Zoltan Nyitrai, Gabor Mocsai, Sandor Hobor, and Timothy H. Nitney

Pharmacokinetic Assessment of $^{18}$F-$(2S,4R)$-4-Fluoroglutamine in Patients with Cancer
Milan Grkovski, Reema Goel, Simone Krebs, Kevin D. Staton, James J. Harding, Ingo K. Mellinghoff, John L. Humm, and Mark P.S. Dunphy

Demarcation of Sepsis-Induced Peripheral and Central Acidosis with pH (Low) Insertion Cycle Peptide
Kelly E. Henry, Aisling M. Chaney, Veronica L. Nagle, Haley C. Cropper, Saghar Mozaffari, Gregory Slabaugh, Keykavous Parang, Oleg A. Andreev, Yana K. Reshetnyak, Michelle L. James, and Jason S. Lewis

Hybrid Tracers Based on Cyanine Backbones Targeting Prostate-Specific Membrane Antigen: Tuning Pharmacokinetic Properties and Exploring Dye–Protein Interaction
Albertus W. Hensbergen, Tessa Buckle, Danny M. van Willigen, Margret Schottelius, Mick M. Welling, Felicia A. van der Wijk, Tobias Maurer, Henk G. van der Poel, Gabri van der Pluijm, Wytske M. van Weerden, Hans-Jürgen Wester, and Fijs W.B. van Leeuwen

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

(*contributed equally)
Tumor-to-Blood Ratio for Assessment of Somatostatin Receptor Density in Neuroendocrine Tumors Using $^{68}$Ga-DOTATOC and $^{68}$Ga-DOTATATE

Ezgi Ilan, Irina Velikyan, Mattias Sandström, Anders Sundin*, and Mark Lubberink*

Folate Receptor β–Targeted PET Imaging of Macrophages in Autoimmune Myocarditis

Aaghavan Jahandideh, Sauli Uotila, Mia Ståhle, 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 Knuutila, Anne Roivainen, and Antti Saraste

Neuroinflammation PET Imaging: Current Opinion and Future Directions

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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 Srblijn, 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

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Pulmonary Lymphangitic Carcinomatosis: Diagnostic Performance of High-Resolution CT and $^{18}$F-FDG PET/CT in Correlation with Clinical Pathologic Outcome

Mario Jreige*, Vincent Dunet*, Igor Letovanec, John O. Prior, Reto A. Meuli, Catherine Beigelman-Aubry, and Niklaus Schaefer

Imaging Inflammation in Atherosclerosis with CXCR4-Directed $^{68}$Ga-Pentixafor PET/CT: Correlation with $^{18}$F-FDG PET/CT

Malte Kircher, Johannes Tran-Gia, Luisa Kemmer, Xiaoli Zhang, Andreas Schirbel, Rudolf A. Werner, Andreas K. Buck, Hans-Jürgen Wester, Marcus Hacker, Constantin Lapa*, and Xiang Li*

Light-Induced Radiosynthesis of $^{89}$Zr-DFO-Azepin-Onartuzumab for Imaging the Hepatocyte Growth Factor Receptor

Simon Klingler, Rachael Fay, and Jason P. Holland

Performance of Digital PET Compared with High-Resolution Conventional PET in Patients with Cancer

Daniëlle Koopman, Jorn. A. van Dalen, Henk Stevens, Cornelis H. Slump, Siert Knollema, and Pieter L. Jager

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

Markus Kroenke, Alexander Wurzer, Kristina Schwamborn, Lena Ulbrich, Lena Jooß, Tobias Maurer, Thomas Horn, Isabel Rauscher, Bernhard HALLER, Michael Herz, Hans-Jürgen Wester, Wolfgang A. Weber, and Matthias Eiber

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

Benedikt Kranzbühler, Julian Müller, Anton S. Becker, Helena I. García Schuler, Urs Muehlmatten, Christian D. Fankhauser, Sarah Kedzia, Matthias Guckenberger, Philipp A. Kaufmann, Daniel Eberli, and Irene A. Burger

Recent Advances in Imaging Steroid Hormone Receptors in Breast Cancer

Manoj Kumar, Kelley Salem, Amye J. Tevaarwerk, Roberta M. Strigel, and Amy M. Fowler

Head-to-Head Comparison of $^{68}$Ga-PSMA-11 with $^{18}$F-PSMA-1007 PET/CT in Staging Prostate Cancer Using Histopathology and Immunohistochemical Analysis as a Reference Standard

Jonathan Kuten, Ibrahim Fahoum, Ziv Savin, Ofer Shamin, Gilad Gitstein, Dov Herschkovitz, Nicola J. Mabjeesh, Ofer Yossapowitch, Eyal Mishani, and Einat Even-Sapir

Immune Checkpoint Imaging in Oncology: A Game Changer Toward Personalized Immunotherapy?

Susanne Lütje, Georg Feldmann, Markus Essler, Peter Brossart, and Ralph A. Bundschuh

High-Resolution Depth-Encoding PET Detector Module with Prismatoid Light-Guide Array

Andy LaBella, Xinjie Cao, Eric Petersen, Rick Lubinsky, Anat Biegon, Wei Zhao, and Amir H. Golden

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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FOR JNM ARTICLES PUBLISHED IN 2020

**Multiparametric $^{18}$F-FDG PET/MRI of the Breast: Are There Differences in Imaging Biomarkers of Contralateral Healthy Tissue Between Patients With and Without Breast Cancer?**

**$^{18}$F-FDG PET/CT Identifies Predictors of Survival in Patients with Locally Advanced Cervical Carcinoma and Paraaortic Lymph Node Involvement to Allow Intensification of Treatment**
Hélène Leray, Erwan Gabiache, Frédéric Courbon, Isabelle Brenot-Rossi, Hélène Collineaux, Benoît Lepage, Eric Lambaudie, Alejandra Martinez, Marie Voglimacci, Ariane Weyl, Marion Deslandres, Anne Ducassou, Stéphanie Motton, Charlotte Vaysse, and Elodie Chantalat

**Dose-Dependent Growth Delay of Breast Cancer Xenografts in the Bone Marrow of Mice Treated with $^{223}$Ra: The Role of Bystander Effects and Their Potential for Therapy**
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**The Roach Equation: Value of Old Clinical Tools in the Era of New Molecular Imaging**
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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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**$^{68}$Ga-PSMA PET/CT Combined with PET/Ultrasound-Guided Prostate Biopsy Can Diagnose Clinically Significant Prostate Cancer in Men with Previous Negative Biopsy Results**
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**A Clinical Feasibility Study to Image Angiogenesis in Patients with Arteriovenous Malformations Using $^{68}$Ga-RGD PET/CT**

**$^{177}$Lu-Lilotomab Satetraxetan Has the Potential to Counteract Resistance to Rituximab in Non-Hodgkin Lymphoma**
Marion M. Malenge, Sebastian Patzke, Anne H. Ree, Trond Stokke, Peter Ceuppens, Brian Middleton, Jostein Dahle, and Ada H.V. Repetto-Llamazares

**Confirmation of $^{123}$I-FP-CIT SPECT Quantification Methods in Dementia with Lewy Bodies and Other Neurodegenerative Disorders**

**Characterization of 3 PET Tracers for Quantification of Mitochondrial and Dynaptic Function in Healthy Human Brain: $^{18}$F-BCPP-EF, $^{11}$C-SA-4503, and $^{11}$C-UCB-J**
Ayla Mansur, Eugenii A. Rabiner, Robert A. Comley, Yvonne Lewis, Lefkos T. Middleton, Mickael Huiban, Jan Passchier, Hideo Tsukada, and Roger N. Gunn for the MIND-MAPS Consortium

**PET/MRI Versus PET/CT for Whole-Body Staging: Results from a Single-Center Observational Study on 1,003 Sequential Examinations**
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**An $^{89}$Zr-HDL PET Tracer Monitors Response to a CSF1R Inhibitor**

**Standardization of Preclinical PET/CT Imaging to Improve Quantitative Accuracy, Precision, and Reproducibility: A Multicenter Study**
Wendy McDougald, Christian Vanhove, Adrienne Lehnert, Barbara Lewellen, John Wright, Marco Mingarelli, Carlos Alcaide Corral, Jurgen E. Schneider, Sven Plein, David E. Newby, Andy Welch, Robert Miyaoaka, Stefaan Vandenberghe, and Adriana Alexandre S. Tavares

**Can Intraoperative Fluorescence Imaging Identify All Lesions While the Road Map Created by Preoperative Nuclear Imaging Is Masked?**
Phillipa Meershoek, Tessa Buckle, Matthias N. van Oosterom, Gijs H. KleinJan, Henk G. van der Poel, and Fijs W.B. van Leeuwen

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Repurposing Molecular Imaging and Sensing for Cancer Image–Guided Surgery
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Imaging Responses to Immunotherapy with Novel PET Tracers
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Quantitative and Qualitative Analyses of Biodistribution and PET Image Quality of a Novel Radiohybrid PSMA, $^{18}$F-rhPSMA-7, in Patients with Prostate Cancer

$^{18}$F-DCFPyL PET/CT in Patients with Subclinical Recurrence of Prostate Cancer: Effect of Lesion Size, Smoothing Filter, and Partial-Volume Correction on PROMISE Criteria
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Inflammation-Based Index and $^{68}$Ga-DOTATOC PET–Derived Uptake and Volumetric Parameters Predict Outcome in Neuroendocrine Tumor Patients Treated with $^{90}$Y-DOTATOC
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PET/CT Imaging with an $^{18}$F-Labeled Galactodendritic Unit in a Galectin-1–Overexpressing Orthotopic Bladder Cancer Model
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Optical Imaging Modalities: Principles and Applications in Preclinical Research and Clinical Settings
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Nuclear Imaging of Bacterial Infection: The State of the Art and Future Directions
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Kelsey L. Pomykala, Johannes Czernin, Tristan R. Grogan, Wesley R. Armstrong, John Williams, and Jeremie Calais

First-Line Selective Internal Radiation Therapy in Patients with Uveal Melanoma Metastatic to the Liver
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Synthesis of the PET Tracer $^{124}$I-Trametinib for MAPK/ERK Kinase Distribution and Resistance Monitoring
Edwin C. Pratt, Elizabeth Isaac, Evan P. Stater, Guangbin Yang, Ouathek Ouwerfelli, Nagarakashore Pillarsetty, and Jan Grimm

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Response Prediction of $^{177}$Lu-PSMA-617 Radioligand Therapy Using Prostate-Specific Antigen, Chromogranin A, and Lactate Dehydrogenase
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Matched-Pair Comparison of $^{68}$Ga-PSMA-11 and $^{18}$F-PSMA-1007 PET/CT: Frequency of Pitfalls and Detection Efficacy in Biochemical Recurrence After Radical Prostatectomy
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Can the Injected Dose Be Reduced in $^{68}$Ga-PSMA-11 PET/CT While Maintaining High Image Quality for Lesion Detection?
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Preclinical PERCIST and 25% of SUVmax Threshold: Precision Imaging of Response to Therapy in Co-clinical $^{18}$F-FDG PET Imaging of Triple-Negative Breast Cancer Patient–Derived Tumor Xenografts
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Additional Local Therapy for Liver Metastases in Patients with Metastatic Castration-Resistant Prostate Cancer Receiving Systemic PSMA-Targeted Therapy
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Semiautomatically Quantified Tumor Volume Using $^{68}$Ga-PSMA-11 PET as a Biomarker for Survival in Patients with Advanced Prostate Cancer
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PET Imaging of the Natural Killer Cell Activation Receptor NKp30
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Promise of Fully Integrated PET/MRI: Noninvasive Clinical Quantification of Cerebral Glucose Metabolism
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$^{18}$F-FDG PET/CT in Left-Ventricular Assist Device Infection: Initial Results Supporting the Usefulness of Image-Guided Therapy
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Prospective Evaluation of 18F-DCFPyL PET/CT in Biochemically Recurrent Prostate Cancer in an Academic Center: A Focus on Disease Localization and Changes in Management
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Molecular Imaging of PD-L1 Expression and Dynamics with the Adnectin-Based PET Tracer 18F-BMS-986192

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Targeting Fibroblast Activation Protein: Radiosynthesis and Preclinical Evaluation of an 18F-Labeled FAP Inhibitor
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ABCG2- and ABCB1 Inhibition Using Supratherapeutic Doses of Erlotinib: Clinical Implications in the Treatment of Central Nervous System Metastases
Eveline A. van de Stradt, Maqsood Yaqub, Idris Bahce, and N.H. Hendrikse

Development and Evaluation of Interleukin-2–Derived Radiotracers for PET Imaging of T Cells in Mice
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 Inès F. Antunes

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

TSPO Versus P2X7 as a Target for Neuroinflammation: An In Vitro and In Vivo Study
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Moving Toward Multicenter Therapeutic Trials in Amyotrophic Lateral Sclerosis: Feasibility of Data Pooling Using Different Translocator Protein PET Radioligands

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
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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

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

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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 therapies but also reflected growing global interest in these life-extending treatments:

Long-term outcome of 225Ac-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 18F-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 Radiouclide 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
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
177Lu-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 64Cu-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 18F-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-[5-11C]-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
ImmunPET 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 mGlus 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 Aβ 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 Aβ 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
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 LTCI, 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

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
Early Career Professionals Abstract Award Winners

**CLINICAL:**

1st Place
Role of $^{68}$G-fibroblast activation protein inhibitor (API) PET/CT in the evaluation of peritoneal carcinomatosis and comparison with $^{18}$F-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 $^{68}$Ga-DOTA-FAPI-04 and $^{18}$F-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 $^{18}$F-DCFPyL PET/CT
*Presenting Author: Petra Lovrec, MD; Department of Radiology, University of Wisconsin-Madison, Madison, WI*

**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 $[^{11}C]$ureas from $[^{11}C]$ 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: Woosung Lee; Applied Bioengineering Graduate School of Convergence Science and Technology, Seoul National University; Seoul, Korea, Republic of*
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 99mTc-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
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<thead>
<tr>
<th>Country</th>
<th>Title</th>
<th>Author(s)</th>
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<td>Response monitoring in metastatic breast cancer: a comparison of survival times between FDG-PET/CT and CE-CT</td>
<td>Mohammad Naghavi-Bezhad</td>
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<td>Egypt</td>
<td>Association of robust radiomic features from staging $^{18}$F-FDG PET/CT in lung cancer with EGFR expression and overall survival</td>
<td>Rehab Mostafa</td>
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<td>France</td>
<td>Comparison of stress myocardial Flow Response using regadenoson and dipyridamole in SPECT</td>
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<td>Germany</td>
<td>Test-Retest Reproducibility of Conventional Quantitative Parameters on PSMA-targeted $^{18}$F-DCFPyL PET/CT in Patients with Metastatic Prostate Cancer</td>
<td>Rudolf Werner</td>
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<td>Greece</td>
<td>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</td>
<td>Georgios Papadakis</td>
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<td>Hong Kong</td>
<td>$^{18}$F-FDG-PET/MR Imaging of Brown and Beige Adipose Tissues in Preclinical Model</td>
<td>Kel Tan</td>
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<td>India</td>
<td>Long-term outcome of $^{225}$Ac-DOTATATE Targeted Alpha Therapy in Patients with Metastatic Gastroenteropancreatic Neuroendocrine Tumors</td>
<td>Chandrasekhar Bal</td>
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<tr>
<td>Indonesia</td>
<td>Model Selection Based on Population Fitting at an Example of $^{177}$Lu-PSMA Kinetics in Kidneys with a Low Number of Data</td>
<td>Deni Hardiansyah</td>
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<td>Iran, Islamic Republic of</td>
<td>Prediction of human papillomavirus associated oropharyngeal cancer using multiple machine learning algorithms and PET/CT image radiomics features</td>
<td>Atlas Haddadi Avval</td>
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<td>Ireland</td>
<td>A Simple Adaptive Bandwidth Scheme that Improves Image Quality and Kinetic Quantitation in Dynamic PET Scans</td>
<td>Fengyun Gu</td>
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<td>Israel</td>
<td>Can absorbed radiation doses by organs and tumors after PRRT be estimated from a single SPECT/CT study?</td>
<td>Chicheportiche Alexandre</td>
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<td>Italy</td>
<td>Prediction of Lymph Node Metastasis From $^{18}$F-Fdg Pet/Ct Radiomics of Cervical Cancer</td>
<td>Lavinia Monaco</td>
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<td>Predictive Factors of the Therapeutic Effect of I-131 Therapy for Hyperthyroidism</td>
<td>Haruna Ikeda</td>
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<td>Variation in Delivery Methods of 18F-FDG for Patients: A Single Institution Observation</td>
<td>Sulaiman Alraish</td>
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<td>Macao</td>
<td>Personalized Voxel-S-Value Methods for Monte-Carlo-like Quantitative Y-90 PET Dosimetry</td>
<td>Gefei Chen</td>
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<td>Mexico</td>
<td>Comparative evaluation of castrate resistant metastatic Prostate Cancer with $^{68}$Ga DOTA RGD PET/CT and $^{68}$Ga PSMA: Pilot study</td>
<td>Francisco Garcia Perez</td>
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<td>The usefulness of normalized residual activity (NORA) in the analysis of Tc-99m DTPA diuresis renography</td>
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<td>New Zealand</td>
<td>Lutetium-177: a flexible radionuclide therapeutic options</td>
<td>Madhusudan Vyas</td>
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<td>Norway</td>
<td>Development of the first CDK7 specific PET imaging probe based on a carbon-11 labeled pyrazolotriazine derivative for visualization of glioblastoma</td>
<td>Mathias Kranz</td>
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<td>Philippines</td>
<td>Comparison of Gallium-68 Prostate-Specific Membrane Antigen (Ga-68 PSMA) Normal Tissue Uptake across Tumor Burden Groups among Patients with Prostate Cancer</td>
<td>Mary Stephanie Jo Estrada</td>
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<td>Romania</td>
<td>Preclinical assessment of nanoparticles conjugated with $^{64}$Cu-DOTA-PEG-BBN targeting gastrin-releasing peptide receptors</td>
<td>Dana Niculae</td>
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SNMMI Annual Meeting Awards

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

Spain
Long-term evaluation of amyloid deposition in basal ganglia in patients with mild cognitive impairment by 11C-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
68Ga-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 Alzheimer’s 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
Aysegil 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 18F-PSMA-1007 and Al 18F-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 99mTc-bicisate (Neurolite®) Sterility When Used for Ictal Studies
Jenna Allen

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

18F-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 177Lu-PSMA-617 Therapy Results in Patients with Metastatic Castration-Resistant Prostate Cancer
Antonio Brnjic

Evaluation of the Stability of Various 99mTc-Filtered Sulfur Colloid Unit Dose Configurations Used for Lymphoscintigraphy
Joanna Cala

Effects of Oxygen Exposure on Tc-99m PYP Stability
Nicole Dau
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 Buttable 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-2 pandemic 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

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Gabrielle Smith

Effects of Thyroid Uptake Probe Placement on 123I Capsule Counts
Rebecca Sondrol

Synthesis of 99mTc-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: Andrezza 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

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

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

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

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

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

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

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

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

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

Javier Hernández-Gil
Research Fellow
Memorial Sloan Kettering Cancer Center

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Research Fellow
Memorial Sloan Kettering Cancer Center

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

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

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

Simone Susanne Krebs, MD, MS
Nuclear Medicine Physician,
Assistant Attending, Memorial Sloan
Kettering Cancer Center
SNMMI Ones to Watch 2021

Zhibo Liu, PhD
Tenure Track Assistant Professor
Beijing University

Domnique S. Newallo
Nuclear Medicine Resident
Emory University

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

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

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

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

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

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

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

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

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

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

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

Senthil Selvaraj, MD
Senior Cardiology Fellow
University of Pennsylvania

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

Ning Zhao, PhD
Postdoctoral Fellow
University of California
San Francisco
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