

Simon R. CHERRY, PhD

Distinguished Research Professor,
Departments of Biomedical Engineering and Radiology
University of California, Davis

Personal Details

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Date of Birth:	13th April 1965
Place of Birth:	Hitchin, Hertfordshire, England
Citizenship:	United States and United Kingdom

Education

<i>Bachelor's Degree:</i> Bachelor of Science, 1st Class with Honors, Physics and Astronomy Department of Physics and Astronomy, University College London, England	1983 - 1986
<i>Doctorate:</i> Ph.D. (Medical Physics, Biophysics & Radiobiology) Joint Department of Physics, Institute of Cancer Research and The Royal Marsden Hospital, Sutton, England.	1986 - 1989

Employment

<i>Postdoctoral Scholar</i> Division of Nuclear Medicine & Biophysics, UCLA School of Medicine, Los Angeles, California	1990 - 1991
<i>Visiting Assistant Professor</i> Division of Nuclear Medicine & Biophysics, UCLA School of Medicine, Los Angeles, California	1992
<i>Assistant Professor</i> Department of Medical and Molecular Pharmacology, UCLA School of Medicine, Los Angeles, California	1993 - 1997
<i>Associate Professor</i> Department of Medical and Molecular Pharmacology, UCLA School of Medicine, Los Angeles, California	1997 - 2001
<i>Associate Director</i> Crump Institute for Molecular Imaging, UCLA School of Medicine, Los Angeles, California	1998 - 2001
<i>Professor</i> Department of Biomedical Engineering, College of Engineering, UC Davis, Davis, California	2001 - 2013
<i>Director</i> Center for Molecular and Genomic Imaging, UC Davis, Davis, California	2004 - 2016
<i>Chairman</i> Department of Biomedical Engineering, College of Engineering, UC Davis, Davis, California	2007 - 2009
<i>Professor</i> Department of Radiology, School of Medicine, UC Davis, Davis, California	2010 - 2013
<i>Distinguished Professor</i> Department of Biomedical Engineering and Department of Radiology, UC Davis, Davis, California	2013 - 2023
<i>Distinguished Research Professor</i> Department of Biomedical Engineering and Department of Radiology, UC Davis, Davis, California	2023 - present

Selected Awards and Honors

1992	Computer and Instrumentation Council Young Investigator of the Year Award, Society of Nuclear Medicine
1998	Early Achievement Award, Nuclear & Plasma Sciences Society, Institute of Electrical & Electronics Engineers

- 2004 Elected Fellow of the Institute of Physics (FInstP), UK
 - 2005 Society of Nuclear Medicine, Computer & Instrumentation Council, Edward J. Hoffman Award Memorial Award
 - 2006 Henry Wagner Lectureship, Society for Nuclear Medicine, June 2006.
 - 2007 Academy of Molecular Imaging, Distinguished Basic Science Award
 - 2008 Elected Fellow, Institute for Electrical and Electronics Engineers (IEEE)
 - 2008 Outstanding Mid-Career Faculty Research Award, College of Engineering, UC Davis
 - 2008 Elected Fellow, American Institute for Medical and Biological Engineering (AIMBE)
 - 2009 Distinguished Scientist Award, Western Regional Society of Nuclear Medicine
 - 2010 Elected Fellow, Biomedical Engineering Society (BMES)
 - 2011 Imaging Achievement Award, Society of Molecular Imaging (SMI)
 - 2011 Elected Fellow, Institute of Physics and Engineering in Medicine (IPEM)
 - 2012 Edward J. Hoffman Medical Imaging Scientist Award, Institute for Electrical & Electronics Engineers (IEEE)
 - 2014 Taplin Memorial Lectureship, Western Regional Society of Nuclear Medicine
 - 2015 NIH/National Cancer Institute Outstanding Investigator Award
 - 2016 Marie Sklodowska-Curie Award, Institute for Electrical and Electronics Engineers (IEEE)
 - 2016 Elected Member, National Academy of Engineering (NAE)
 - 2016 Elected Fellow, World Molecular Imaging Society
 - 2016 Gold Medal, World Molecular Imaging Society
 - 2017 Elected Fellow, American Association for the Advancement of Science (AAAS)
 - 2017 Elected Fellow, National Academy of Inventors
 - 2018 Aebersold Award, Society for Nuclear Medicine and Molecular Imaging
 - 2018 EXPLORER listed as one of top 10 Physics Breakthroughs of the Year, Institute of Physics
 - 2020 Peter Valk Memorial Award, Society of Nuclear Medicine and Molecular Imaging
 - 2020 Marie Curie Lectureship, European Association of Nuclear Medicine
 - 2021 Wolfgang Becker Lectureship, German Society of Nuclear Medicine
 - 2021 Chancellor's Innovation Award, UC Davis
 - 2022 Cassen Award, Society for Nuclear Medicine and Molecular Imaging
 - 2023 Chancellor's Lifetime Award in Innovation, UC Davis
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Patents

- 1998 U.S. Patent # 5,719,400 "High Resolution Detector Array for Gamma Ray Imaging"
 - 2003 U.S. Patent # 6,552,348 "Apparatus and Method for Breast Cancer Imaging"
 - 2010 U.S. Patent # 7,835,782 "Integrated PET-MRI Scanner"
 - 2017 U.S. Patent # 9,632,187 "Modular Positron Emission Tomography Kit"
 - 2020 U.S. Patent Application US17/619,471 "Ultrafast Tracer Imaging for Positron Emission Tomography"
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Research Grants

Selected Current Research Grants:

NEUROEXPLORER: ULTRA-HIGH PERFORMANCE HUMAN BRAIN PET IMAGER FOR HIGHLY RESOLVED IN VIVO IMAGING OF NEUROCHEMISTRY

U01 EB029811 *National Institutes of Health/NIBIB*
Role on Project: Investigator (PI: Richard Carson, Yale University)
Dates: 09/12/2020 – 08/31/2025
Amount: \$10,155,363 (including Indirect Costs):

TOF-PET WITH HIGH EFFICIENCY TICI CRYSTALS

R01 EB034062 *National Institutes of Health/NIBIB*
 Role on Project: Investigator (PI: Gerard Ariño-Estrada, Researcher in Cherry Lab)
 Dates: 04/01/2023 - 03/31/2027
 Amount: \$3,217,255 (including Indirect Costs)

SINGLE TRACER MULTIPARAMETRIC PET IMAGING

R01 EB033435 *National Institutes of Health/NIBIB*
 Role on Project: Investigator (PI: Guobao Wang)
 Dates: 09/19/2022 – 6/30/2026
 Amount: \$2,457,434 (including Indirect Costs)

RECONSTRUCTION-FREE THREE DIMENSIONAL POSITRON EMISSION IMAGING

R01 EB033536 *National Institutes of Health/NIBIB*
 Role on Project: Investigator (PI: Sun Il Kwon)
 Dates: 09/01/2022 - 06/30/2026
 Amount: \$2,418,944 (including Indirect Costs)

HIGH-PERFORMANCE AND COST-EFFECTIVE DETECTOR MODULES BASED ON ULTRA-DENSE AND FAST CERAMIC SCINTILLATOR FOR LONG AXIAL FIELD-OF-VIEW POSITRON EMISSION TOMOGRAPHY

R01 EB030538 *National Institutes of Health/NIBIB*
 Role on Project: Investigator (PI: Sun Il Kwon)
 Dates: 09/01/2021 – 05/31/2025
 Amount: \$2,478,829 (including indirect costs)

A 0.5 MM RESOLUTION TOTAL-BODY SMALL-ANIMAL PET

R01 EB031961 *National Institutes of Health/NIBIB*
 Role on Project: Investigator (PI: Junwei Du, Researcher in Cherry Lab)
 Dates: 04/01/2022 – 12/31/2025
 Amount: \$2,583,451 (including indirect costs)

REAL-TIME IN VIVO PROTON RANGE VERIFICATION IN PROTON THERAPY WITH THALLIUM BROMIDE

R01 EB029533 *National Institutes of Health/NIBIB*
 Role on Project: Investigator (PI: Gerard Ariño-Estrada, Researcher in Cherry Lab)
 Dates: 04/15/2021 – 12/31/2024
 Amount: \$2,260,164 (including indirect costs)

MAXIMIZING SENSITIVITY FOR ULTRALOW DOSE PET IMAGING

R01 EB028806 *National Institutes of Health/NIBIB*
 Role on Project: Investigator (PI: Junwei Du, Project Scientist in Cherry Lab)
 Dates: 07/01/20 – 03/31/25
 Amounts: Direct: \$ 1,509,820 Total (direct + indirect): \$ 2,357,565

TIME-OF-FLIGHT POSITRON EMISSION TOMOGRAPHY USING CERENKOV LUMINESCENCE IN BGO

R01 EB029633 *National Institutes of Health/NIBIB*
 Role on Project: Investigator (PI: Sun Il Kwon)
 Dates: 05/01/20 – 01/31/25
 Amounts: Direct: \$ 1,109,103 Total (direct + indirect): 1,475,929

Selected Completed Grants:

HIGH PERFORMANCE PET DETECTOR MODULE FOR HUMAN BRAIN IMAGING

R01 EB028337 *National Institutes of Health/NIBIB*
 Role on Project: Principal Investigator on Subcontract (PI: Peng Peng, Canon Medical)
 Dates: 07/01/19 – 06/30/23
 Amounts: Direct: \$ 642,361 Total (direct + indirect): \$ 781,457

NOVEL ULTRA-FAST PHOTODETECTORS FOR NEAR RECONSTRUCTION-LESS TOF-PET

R21 EB028398 *National Institutes of Health/NIBIB*
 Role on Project: Investigator (PI: Gerard Ariño-Estrada, Project Scientist in Cherry Lab)
 Dates: 07/01/19 – 03/31/23
 Amounts: Direct: \$ 400,000 Total (direct + indirect): \$ 610,125

RESEARCH AT THE INTERFACE OF OPTICAL AND IONIZING RADIATION FOR INNOVATIVE CANCER IMAGING AND THERAPY

R35 CA197608 *NIH/NCI Outstanding Investigator Award*
 Role on Project: *Principal Investigator*
 Dates: 08/01/15 – 02/28/23
 Amounts: Direct: \$ 3,175,697 Total (direct + indirect): \$ 4,983,762

DEVELOPMENT OF PET IMAGING BIOMARKERS TO PREDICT ENHANCED GLIOBLASTOMA RADIOTHERAPY BY A NOVEL H-NOX OXYGEN CARRIER

R01 CA204723 *National Institutes of Health/NCI*
 Role on Project: *Investigator on Subcontract (PI: Ana Krtolica, Omnix)*
 Dates: 05/01/17 – 04/30/22
 Amounts: Direct: \$ 2,648,779 Total (direct + indirect): \$ 2,806,602

EXPLORER: CHANGING THE MOLECULAR IMAGING PARADIGM WITH TOTAL BODY PET

R01 CA206187 *NIH Transformative R01 – NIH High-Risk, High-Reward Program*
 Role on Project: *Principal Investigator (with Ramsey Badawi)*
 Dates: 09/25/15 – 08/31/22
 Amounts: Direct: \$ 13,913,310 Total (direct + indirect): \$ 15,514,269

INNOVATIVE SILICON PHOTOMULTIPLIER TECHNOLOGIES FOR SMALL-ANIMAL PET

R01 EB019439 *National Institutes of Health/NIBIB*
 Role on Project: *Principal Investigator*
 Dates: 07/01/15 – 06/30/19
 Amounts: Direct: \$ 900,000 Total (direct + indirect): \$ 1,411,875

A COST-EFFECTIVE HIGH-PERFORMANCE CERAMIC GARNET SCINTILLATOR FOR PET

R01EB014895 *National Institutes of Health/NIBIB*
 Role on Project: *Principal Investigator*
 Dates: 09/30/12 – 09/30/17
 Amounts: Direct: \$ 900,000 Total (direct + indirect): \$ 1,721,275

QUANTITATIVE EVALUATION OF CERENKOV LUMINESCENCE FOR IMAGING AND THERAPY

R01EB015471 *National Institutes of Health/NIBIB*
 Role on Project: *Principal Investigator*
 Dates: 07/01/12 – 04/30/18
 Amounts: Direct: \$ 900,000 Total (direct + indirect): \$ 1,360,166

PHOTODYNAMIC THERAPY MEDIATED BY CERENKOV LIGHT EMITTED FROM RADIOPHARMACEUTICALS

R21 EB018750 *National Institutes of Health/NIBIB*
 Role on Project: *Principal Investigator*
 Dates: 05/01/14 – 04/30/17
 Amounts: Direct: \$ 302,219 Total (direct + indirect): \$ 435,250

CENTER FOR TRANSLATIONAL MOLECULAR IMAGING

RISE *UC Davis Intramural Funding*
 Role on Project: *Principal Investigator*
 Dates: 09/01/12 – 08/31/16
 Amounts: Direct: \$866,000 Total (direct + indirect): \$866,000

MULTIMODAL μ PET and μ MRI IMAGING INSTRUMENTATION

R01 EB000993 *National Institutes of Health/ NIBIB Bioengineering Research Partnership*
 Role on Project: *Principal Investigator (with Russell Jacobs, Ph.D. and Angelique Louie, Ph.D.)*
 Dates: 8/1/09 - 7/31/15
 Amounts: Direct: \$ 4,614,015 Total (direct + indirect): \$ 5,652,623

DEVELOPMENT OF A SMALL ANIMAL PET SCANNER USING SOLID STATE PHOTOMULTIPLIERS

R01 CA134632 *National Institutes of Health/NCI*
 Role on Project: *Principal Investigator*
 Dates: 09/15/08-08/31/14
 Amounts: Direct: \$1,886,627 Total (direct + indirect): 2,215,704

THE CENTER FOR TRANSLATIONAL GENOMIC PHENOTYPING

U01 CA141582*National Institutes of Health/NCI*Role on Project: *Principal Investigator, joint with Robert Cardiff*

Dates: 07/01/09 – 06/30/15

Amounts: Direct: \$ 2,426,717 Total (direct + indirect): \$ 3,717,754

A HIGH RESOLUTION AND HIGH SENSITIVITY DEDICATED MOUSE BRAIN PET SCANNER

R01 EB006109*National Institutes of Health/NIBIB*Role on Project: *Investigator (PI: Yongfeng Yang, Project Scientist in Cherry Lab)*

Dates:

08/01/10-06/30/14

Amounts: Direct: \$ 1,111,910 Total (direct + indirect): 1,575,181

X-RAY LUMINESCENCE OPTICAL TOMOGRAPHY FOR SMALL ANIMAL IMAGING

R21 EB013828*National Institutes of Health/NIBIB*Role on Project: *Investigator (PI: Changqing Li, Project Scientist in Cherry Lab)*

Dates:

07/01/11-06/30/13

Amounts: Direct: \$ 275,000 Total (direct + indirect): \$ 397,480

HIGH SENSITIVITY SPECT FOR SMALL ANIMALS AND PLANTS

DE-SC0005311*Department of Energy*Role on Project: *Investigator (PI: Gregory Mitchell, Project Scientist in Cherry Lab)*

Dates:

09/01/10-08/31/13

Amounts: Direct: \$ 503,681 Total (direct + indirect): \$ 749,836

SMALL-ANIMAL OPTICAL IMAGING SYSTEM

S10OD010642*National Institutes of Health/Office of the Director*Role on Project: *Principal Investigator*

Dates: 05/08/12 – 05/07/13

Amounts: Direct: \$ 407,472 Total (direct + indirect): \$ 407,472

MR-PET FOR A SMALL ANIMAL IMAGING CENTER

RC2 CA148971*National Institutes of Health Grand Opportunity Grant*Role on Project: *Principal Investigator on Subcontract (PI: Jason Koutcher, MSKCC)*

Dates: 9/30/09 - 8/31/13

Amounts: Direct: \$ 623,455 Total (direct + indirect): \$ 843,045 (subcontract only)

TOMOGRAPHIC X-RAY MICROSCOPE SYSTEM

S10OD010347*National Institutes of Health/Office of the Director*Role on Project: *Principal Investigator*

Dates: 04/15/12 – 04/14/13

Amounts: Direct: \$ 593,693 Total (direct + indirect): \$ 593,693

HIGH RESOLUTION PET WITH 250µm LSO DETECTORS AND ADAPTIVE ZOOM

DE-FG02-08ER64677*Department of Energy*Role on Project: *Principal Investigator (with Jinyi Qi, Ph.D.)*

Dates:

09/15/08-08/31/10

Amounts: Direct: \$491,000 Total (direct + indirect): \$715,000

A SIMULTANEOUS PET AND FLUORESCENCE OPTICAL TOMOGRAPHY IMAGING SYSTEM FOR SMALL ANIMALS

DE-SC0002294*Department of Energy*Role on Project: *Principal Investigator (with Jinyi Qi, Ph.D.)*

Dates:

09/15/09-08/31/11

Amounts: Direct: \$426,571 Total (direct + indirect): \$600,000

IN VIVO OPTICAL IMAGING OF BETA-EMITTING RADIONUCLIDES USING CERENKOV RADIATION

R21 CA143098*National Institutes of Health*Role on Project: *Principal Investigator*

Dates: 12/01/09 - 11/30/11

Amounts: Direct: \$ 239,250 Total (direct + indirect): \$ 366,271

HYPERSPECTRAL OPTICAL TOMOGRAPHY FOR MOLECULAR IMAGING

R01 CA121783 *National Institutes of Health/NCI*

Role on Project: *Principal Investigator*

Dates:

05/18/06-04/30/10

Amounts: Direct: \$ 1,936,973 Total (direct + indirect): \$ 2,301,463

POSITION SENSITIVE APD DETECTORS FOR SMALL ANIMAL PET

R01 EB006109 *National Institutes of Health/NIBIB*

Role on Project: *Investigator (PI: Yongfeng Yang)*

Dates:

04/01/06-01/31/10

Amounts: Direct: \$ 1,000,000 Total (direct + indirect): \$ 1,450,000

UC DAVIS MOUSE CANCER IMAGING PROGRAM

R24 CA110804 *National Institutes of Health*

Role on Project: *Principal Investigator*

Dates:

8/1/04-7/31/10

Amounts: Direct: \$ 2,987,857 Total (direct + indirect): \$ 4,163,273

MULTIMODAL μ PET and μ MRI IMAGING INSTRUMENTATION

R01 EB000993 *National Institutes of Health/ NIBIB Bioengineering Research Partnership*

Role on Project: *Principal Investigator on UC Davis Subcontract*

Dates:

7/1/04 - 6/30/09

Amounts: Direct: \$ 786,297 Total (direct + indirect): \$ 1,100,625

HIGH RESOLUTION PET DETECTORS FOR COMBINED PET-MR SMALL ANIMAL IMAGING

R44 NS055377 *National Institutes of Health*

Role on Project: *Principal Investigator on UC Davis Subcontract*

Dates:

08/01/07 - 07/31/09

Amounts: Direct: \$ 167,540 Total (direct + indirect): \$ 250,000

A MICRO CT/PET SCANNER FOR IN VIVO SCREENING IN MICE

R01 EB00230 *National Institutes of Health/ NIBIB*

Role on Project: *Principal Investigator*

Dates:

1/15/03 - 12/30/07

Amounts: Direct: \$ 1,000,000 Total (direct + indirect): \$ 1,455,900

HIGH RESOLUTION PET IMAGING OF MOUSE MODELS OF CANCER

R01 EB00561 *National Institutes of Health/ NIBIB*

Role on Project: *Principal Investigator*

Dates:

9/1/02 - 8/30/05

Amounts: Direct: \$ 675,000 Total (direct + indirect): \$ 978,371

HIGH RESOLUTION PET IMAGING OF SMALL ANIMALS

R01 CA069370 *National Institutes of Health / NCI*

Role on Project: *Principal Investigator*

Dates:

September 1st 1996 - August 31st 2002

Amounts: Direct: \$1,281,970 Total (direct+indirect): \$1,825,682

DEVELOPMENT OF A MR-COMPATIBLE PET SCANNER

R01 CA074036 *National Institutes of Health / NCI*

Role on Project: *Principal Investigator*

Dates:

June 1st 1997 - May 31st 2000

Amounts: Direct: \$537,099 Total (direct+indirect): \$764,371

APD BASED PET DETECTOR MODULES FOR BREAST IMAGING

R21 CA096537 *National Institutes of Health/ NCI*

Role on Project: *Principal Investigator*

Dates:

4/15/02- 3/31/04

Amounts: Direct: \$ 200,000 Total (direct + indirect): \$ 296,875

DEVELOPMENT OF TECHNOLOGY AND METHODS FOR SMALL ANIMAL IMAGING IN VIVO

DE-FC03-87-ER60615 Department of Energy

Role on Project: Sub-project Principal Investigator

Dates: 7/01/02 - 6/31/05

Amounts: Direct: \$ 329,986 Total (direct + indirect): \$ 389,760

Invited Talks and Lectures

- Jan 1992 Society of Nuclear Medicine Instrumentation Meeting, Dallas, TX
"3-D Positron Emission Tomography using Multi-Slice Scanners"
- Nov 1992 IEEE Medical Imaging Conference - Round Table on 3-D Reconstruction, Orlando, FL
"Fully 3-D Reconstruction in Positron Emission Tomography"
- Nov 1993 3rd London Conference on Position Sensitive Detectors, London, UK
"Recent Advances in Instrumentation for Positron Emission Tomography"
- Apr 1994 Symposium on Imaging Higher Cerebral Function: Nobel Forum, Stockholm, Sweden
Keynote Address: "Activation Studies using 3-D Positron Emission Tomography"
- Jun 1996 Montreal Neurological Institute, Annual Young Investigator Lecture
"PET Methodology for the 21st Century: A Prospective Review"
- May 1996 APS/AAPT Symposium, Indianapolis, IN
"Instrumentation for Positron Emission Tomography: Past, Present and Future"
- Oct 1996 Fermilab Colloquium, Batavia, IL
"Instrumentation for Positron Emission Tomography: Past, Present and Future"
- Dec 1996 International Conference on Imaging and Image Processing Technology, Santa Barbara, CA
"Simultaneous PET and MR Imaging: Is it Possible?"
- Dec 1997 Mallinckrodt Radiology, University of Washington, St. Louis, MO
"MicroPET - A High Resolution LSO Scanner for Animal Imaging"
- Jan 1998 Brain Mapping Division, Department of Neurology, UCLA
"Progress Towards Simultaneous PET and MR Imaging"
- Jan 1998 Nuclear Medicine Clinic, UCLA School of Medicine, Los Angeles
"Developing a Combined PET/MR Scanner"
- Mar 1998 Nuclear Medicine, Memorial Sloan Kettering Cancer Center, New York
"High Resolution Imaging of Laboratory Animals with MicroPET"
- Mar 1998 Symposium on Animal Experiments in Medical Research, University of Groningen, The Netherlands
"High Resolution Imaging of Small Animals with PET"
- Mar 1998 Department of Nuclear Medicine, Vrije Universiteit, Amsterdam, The Netherlands
"High Resolution Imaging of Small Animals with microPET"
- May 1998 Symposium on Isotope and Radiation Applications, Institute of Nuclear Energy Research, Taiwan
"MicroPET - A High Resolution LSO Scanner for Animal Imaging"
- Jun 1998 Brain Imaging in Development of Medications for Drug Abuse, College of Problems in Drug Dependence and the Society for Nuclear Imaging and Drug Development, Scottsdale, AZ
"MicroPET - A High Resolution PET Scanner for Animal Studies"
- Jun 1998 Society of Nuclear Medicine Annual Meeting, Toronto, CA, Continuing Education Course
"Nuclear Medicine Detectors for the 21st Century"
- Aug 1998 Department of Radiology, University of Arizona, Tucson, AZ.
"Development of High Resolution PET Technology for Animal Imaging"
- Nov 1998 Workshop on Multi-Modality Imaging, IEEE Medical Imaging Conference, Toronto, CA
"Simultaneous PET/MR Imaging"
- Feb 1999 Life Sciences Division Seminar, UC Berkeley, Berkeley, CA
"Biological Imaging in Small Animals Using Positron Emission Tomography"
- Feb 1999 Merck Pharmaceuticals, West Point, PA

- "microPET - High Resolution PET Imaging of Small Animals"*
- Feb 1999 Society of Nuclear Medicine, Mid-Winter Symposium, Fort Lauderdale, FL
"High Resolution Instrumentation for Small Animal Imaging"
- Mar 1999 NIH Workshop on Small Animal Imaging, Gaithersburg, MD
"microPET – A High Resolution Animal PET Scanner"
- Mar 1999 Future Directions in Nuclear Medicine Physics & Engineering, University of Chicago, IL
"Small Animal PET"
- Mar 1999 Brain Mapping Seminar, Dept. of Neurology, UCLA School of Medicine
"MicroPET: A New Tool for Biological Imaging"
- Apr 1999 Brookhaven National Lab, Department of Chemistry Seminar, Upton, NY
"microPET - High Resolution PET Imaging of Small Animals"
- Apr 1999 Physics Department, Departmental Seminar, UCLA
"High Resolution Gamma Ray Detector Technology for PET"
- May 1999 Department of Neurology, Emory University, Atlanta, GA
"microPET - High Resolution PET Imaging of Small Animals"
- Jun 1999 NASA/NCI workshop on Sensors for Biomolecular Signatures, Caltech, Pasadena, CA
"MicroPET: High Resolution Molecular Imaging In Vivo with Positron Emission Tomography"
- Jun 1999 SNIDD Symposium: "Promises and Pitfalls of SPECT Receptor Imaging with ¹²³I and ^{99m}Tc-labeled Compounds: Applications in Drug Development." at 13th International Symposium on Radiopharmaceutical Chemistry, St. Louis, MO
"Physics and Instrumentation of PET and SPECT: Relative Advantages and Disadvantages for Drug Development Studies"
- Aug 1999 Seminar, Department of Radiology, University of Pittsburgh, PA
"microPET - High Resolution PET Imaging of Small Animals"
- Oct 1999 Institute for Clinical PET, 11th International Conference, Vancouver, Canada
"MicroPET and Breast PET Imaging"
- Nov 1999 American Association of Pharmaceutical Scientists, 1999 Annual Meeting, Symposium: "Application of Surrogate Pharmacodynamic Markers in Drug Discovery", New Orleans, LA
"Molecular Imaging in Small Animals to Measure Pharmacodynamic Effect"
- Nov 1999 Alzheimers Affinity Group, UCLA
"microPET: High Resolution PET Imaging in Laboratory Animals"
- Dec 1999 Parke-Davis Pharmaceuticals, Ann Arbor, MI
"High Resolution Molecular Imaging with PET"
- Dec 1999 RSNA, Special Focus Workshop, Chicago, IL
"Mouse Genomics and Phenotypic Imaging: PET"
- Dec 1999 3rd Cologne PET Symposium, Introducing the PET Generation for the Next Century, Cologne, Germany
"Animal PET and PET/MR Hybrids"
- Jan 2000 SmithKline Beecham: In Vivo Imaging – Enhancing Drug Discovery and Development: MRI Techniques, Upper Merion, PA
"Simultaneous PET/MR Techniques"
- Jan 2000 Nuclear Medicine Clinic Journal Club, UCLA School of Medicine
"maxPET – A Compact PET Scanner for Breast and Axillary Node Imaging"
- Feb 2000 8th International Conference: Peace through Mind/Brain Science. Photonics in the Imaging of Gene Expression, Hamamatsu, Japan.
"Development of PET Technology for Imaging Gene Expression in the Mouse"
- Feb 2000 Osaka City University, Osaka, Japan.
"microPET and Beyond: High Resolution PET Technology for Small Animal Imaging"
- Mar 2000 Food and Drug Administration Subclinical Pharmaceutical Sciences Subcommittee, Rockville, MD
"Experiences with microPET, a High Resolution Small Animal PET Scanner"
- Mar 2000 Proctor & Gamble, Cincinnati, OH

- "MicroPET: Applications in Drug Development?"*
- Mar 2000 Functional Imaging and Scintigraphy in Clinical Pharmacology, Cincinnati, OH
American College of Clinical Pharmacology
"Fundamental of PET" and "Applications for PET in Pre-Clinical Drug Development"
- Apr 2000 Small Animal Imaging Symposium, UC Davis, Davis, CA
"microPET-A High Resolution PET Scanner for Imaging Small Laboratory Animals"
- May 2000 Division of Biomedical Engineering Seminar, UC Davis, Davis, CA
"High Resolution Molecular Imaging in Small Animals with PET"
- Jun 2000 UCLA Medical Alumni Reunion 2000, Westwood, CA
"PET Imaging: A Way to Watch the Biology Of Disease"
- Jul 2000 World Congress on Medical Physics and Biomedical Engineering, Chicago, IL
Symposium on Emerging Technologies in Bioengineering
"High Resolution Molecular Imaging with Positron Emission Tomography"
- Sep 2000 Eli Lilly & Co, Indianapolis, IN
Positron Emission Tomography: A New Tool for Animal Research?
- Oct 2000 Department of Human Genetics, UCLA
In Vivo Imaging in the Mouse with Positron Emission Tomography
- Oct 2000 Experimental Imaging Workshop, St. Jude Children's Research Hospital, Memphis, TN
PET Technology for Small Animal Imaging
- Nov 2000 Symposium on Advanced Imaging Technology and Applications in Biomedical Research
American Association for Laboratory Animal Science Annual Meeting, San Diego, CA
PET Imaging in Small Animals
- Feb 2001 Duke University, Seminar in Departments of Radiology and Biomedical Engineering
MicroPET and Beyond: New Technology for Small Animal Imaging
- Feb 2001 Medical Imaging Seminar, UC Irvine, CA
MicroPET and Beyond: New Technology for Small Animal Imaging
- Feb 2001 Society for Whole-Body Autoradiography, 2001 Annual Meeting, New Orleans, LA
The Emerging Use of Positron Emission Tomography for Studying Small Animal Models
- Mar 2001 Society of Toxicology Annual Meeting, San Francisco, CA
Positron Emission Tomography in Toxicology
- May 2001 Imaging in Medicine and Neuroscience, Institute of Pure and Applied Mathematics, UCLA
Radiology Meets Biology: High Resolution Imaging Technologies for the Mouse
- May 2001 Applications of Bio-Imaging Modalities to Drug Discovery and Exploratory Development,
Bristol Myers Squibb, Princeton, NJ
MicroPET: Positron Emission Tomography for Studying Small Animal Models of Disease
- Aug 2001 Imaging Life: From Cells to Whole Animals, Microscopy and Microanalysis, Microscopy Society of
America, Long Beach, CA
Imaging Whole Animals with microPET
- Aug 2001 Uppsala University PET Center 10th Anniversary Symposium, Uppsala, Sweden
Small Animal PET Technology: A View of the Future
- Aug 2001 UC Neurotrauma 2nd Annual Meeting, Ojai, CA
New Technologies for Small Animal Imaging
- Sep 2001 HiRes2001, NCI Animal Handling Session, Rockville, MD
Animal Handling Issues in PET and SPECT
- Oct 2001 Imaging in 2020, Jackson Hole, WY
Molecular Imaging with PET: A Technological Perspective
- Oct 2001 7th Annual Cancer Research Symposium, UC Davis Cancer Center, Sacramento, CA
Small Animal PET Imaging: A New Tool for Cancer Biologists?
- Oct 2001 Department of Biomedical Engineering Seminar Series, UC Davis, Davis, CA
Positron Emission Tomography

- Nov 2001 Genentech, South San Francisco, CA
MicroPET: Positron Emission Tomography for Studying Small Animal Models of Disease
- Feb 2002 Department of Human Physiology Seminar Series, UC Davis, CA
Positron Emission Tomography: A New Tool for Biologists?
- Feb 2002 Richard Mazess Lecture, Department of Medical Physics, University of Wisconsin, Madison, WI
Positron Emission Tomography: From Man to Mouse
- Mar 2002 Colloquium, Instituto de Fisica, UNAM, Mexico City, Mexico
Recent Advances in Instrumentation for Positron Emission Tomography
- Mar 2002 6th Mexican Symposium on Medical Physics, CINVESTA, Mexico City, Mexico
Positron Emission Tomography: Molecular Imaging in Medicine and Biology
- May 2002 Department of Radiology, UC San Francisco, CA
MicroPET: A PET Scanner for High Resolution Molecular Imaging in Small Animals
- May 2002 Primate Center, UC Davis
Non-invasive Molecular Imaging with Positron Emission Tomography
- Jun 2002 Molecular Imaging Technology: Basic Science in Medical Applications Conference, Society of Nuclear Medicine and Department of Energy, Los Angeles
Advances in Nuclear Medicine Technology for Small Animal Imaging
- Jun 2002 Seminar, Center for Molecular Imaging, Harvard Medical School, Cambridge, MA
Towards In Vivo Nuclear Microscopy: Challenges and Opportunities
- Jun 2002 Roche Seminar Series, Palo Alto, CA
PET: In Vivo Imaging of Biology
- Jul 2002 Office of National Drug Control Policy /Counterdrug Technology Assessment Center and NIDA Technology Symposium, Cambridge, MA
Positron Emission Tomography: A Tool for Drugs of Abuse Research in Animal Models?
- Jul 2002 American Society for Nuclear Cardiology, Invitational Meeting, Lake Tahoe, CA
MicroPET in Cardiac Molecular Imaging
- Aug 2002 Center for Comparative Medicine, UC Davis
Molecular Imaging in the Mouse with Positron Emission Tomography
- Aug 2002 MDRU Symposium on Genetics/Profile Technology, UC Davis
Non-invasive Imaging of Gene Expression with Positron Emission Tomography
- Aug 2002 Society for Molecular Imaging Annual Meeting, Boston, MA
Positron Emission Tomography: Towards 1 mm and Beyond
- Sep 2002 Western Regional Society of Nuclear Medicine, Sacramento, CA
Advances in Nuclear Medicine Technology for Small Animal Imaging
- Oct 2002 NIH Workshop on Developments in Molecular Imaging, Bethesda, MD
Opportunities and Challenges for Nuclear Imaging Instrumentation
- Nov 2002 IEEE Nuclear Science Symposium and Medical Imaging Conference, Norfolk, VA
Short Course on Multimodality Imaging
Multi-Modality Small-Animal Imaging
- Feb 2003 SPIE International Symposium: Physics of Medical Imaging, San Diego, CA
Keynote Address
In Vivo Imaging with Light, X rays and Gamma Rays for Biological Applications
- Feb 2003 Workshop on Receptor Binding Radiotracers, La Jolla, CA
High Resolution PET Imaging
- May 2003 American Society for Neurochemistry, 34th Annual Meeting, Newport Beach, CA
Integrating Positron Emission Tomography and Magnetic Resonance Imaging
- May 2003 Cancer Therapeutics Meeting, UC Davis Cancer Center, Davis, CA
Progress and Developments in Small-Animal PET Imaging at UC Davis
- May 2003 Center for Molecular Medicine/ICMIC Seminar, UCLA, Los Angeles, CA
Progress and Developments in Small-Animal PET Imaging

- Jun 2003 Brain Tumor Research Symposium, UC Davis Cancer Center, Davis, CA
In Vivo Imaging of Animal Models of Cancer with Positron Emission Tomography
- Jul 2003 American Association for Cancer Research Annual Meeting, Washington D.C.
In Vivo Imaging Technologies for Studying Mouse Models of Cancer
- Aug 2003 Frank L. Moore Symposium, LSU Health Sciences Center, Shreveport, LA
Technology for In Vivo Molecular Imaging
- Aug 2003 Society for Molecular Imaging, Annual Meeting, San Francisco, CA
Molecular Imaging Systems Development
- Aug 2003 American Association of Medical Physics, Annual Meeting, San Diego, CA
Imaging Breast Cancer with Positron Emission Tomography
- Oct 2003 American Association for Cancer Research, International Conference on Frontiers in Cancer Prevention Research, Phoenix, AZ
Instrumentation for Molecular Imaging in Small Animals
- Nov 2003 24th Congress of the International Association for Breast Cancer Research, Sacramento, CA. *Imaging Mouse Models of Breast Cancer with Positron Emission Tomography*
- Nov 2003 24th Congress of the International Association for Breast Cancer Research, Sacramento, CA.
Positron Emission Tomography & X-ray Computed Tomography: Tools for Mouse Phenotyping?
- Nov 2003 Gladstone Institute Seminar Series, San Francisco, CA
In Vivo Imaging with Positron Emission Tomography
- Dec 2003 Addressing the 3 R's (Refinement, Replacement and Reduction): Noninvasive Imaging University Club, UC Davis, CA.
In Vivo Imaging with Positron Emission Tomography
- Dec 2003 Center for Advanced Biotechnology and Medicine, Rutgers University, Piscataway, NJ.
Technologies for In Vivo Molecular Imaging of Mouse Models of Cancer
- Jan 2004 NCI/NIH Mouse Models of Human Cancers Consortium Meeting, Los Angeles, CA.
Technologies for Non-Invasive Imaging in Small Animals
- Jan 2004 Department of Radiology, Grand Rounds, UC Davis Medical Center, Sacramento, CA.
Molecular Imaging in Animal Models Using Positron Emission Tomography
- Feb 2004 Astra-Zeneca Neuroscience Advisory Board meeting, Key West, FL.
In Vivo Animal Imaging with microPET
- Mar 2004 4th International PET Symposium, Köln, Germany.
Performance and Applications of microPET II
- Mar 2004 American Chemical Society, Workshop on Molecular Imaging, Anaheim, CA.
Technologies for In Vivo Imaging of Targeted Contrast Agents
- June 2004 Scripps Research Institute Seminar, La Jolla, CA.
In Vivo Imaging with Positron Emission Tomography
- June 2004 Modern Imaging Technology: Recent Advances. Society of Nuclear Medicine Annual Meeting, Philadelphia, PA.
Can Instrumentation Lead to Further Improvements in Small Animal PET
- Aug 2004 5th UC Neurotrauma Meeting, Quail Lodge, Carmel, CA.
In Vivo Molecular Imaging of Animal Models: Advances in Technology and Methods
- Aug 2004 Molecular Imaging Program at Stanford Seminar Series, Stanford University, CA.
New Molecular Imaging Systems and Technologies
- Sept 2004 Society for Molecular Imaging, Plenary Lecture, St. Louis, MO.
From Radioactive Decay to Molecular Imaging
- Oct 2004 Plenary Lecture, DOE Workshop on Nuclear Medicine Instrumentation, Boston, MA
Nuclear Medicine Instrumentation: Back to the Future
- Nov 2004 3rd Annual Gene Therapy Symposium for Heart, Lung and Blood, Sonoma, CA
Practical Strategies: SPECT and PET

- Dec 2004 Small Animal Imaging Symposium, Center for Advanced Biotechnology in Medicine, United Medical and Dental Schools of New Jersey (UMDNJ)
In Vivo Imaging with Positron Emission Tomography
- Dec 2004 Orthopedics Research Laboratory Seminar, UC Davis, Davis, CA
In Vivo Molecular Imaging
- Mar 2005 Grand Rounds, Department of Radiology, University of Pennsylvania, Philadelphia, PA
In Vivo Molecular Imaging of Animal Models of Disease
- Mar 2005 Department of Physics and Astronomy, University of British Columbia, Vancouver, CA
High Resolution Gamma Ray Detectors for Biological Imaging with PET
- Apr 2005 Department of Physiology Seminar, UC Davis, Davis, CA
Non-Invasive Imaging to Study Animal Models of Human Disease
- May 2005 Radiation Detection Center Seminar, Lawrence Livermore Natl Lab, Livermore, CA
High Resolution Gamma Ray Detectors for In Vivo Imaging
- Oct 2005 Imaging in 2020, Jackson Hole, WY
Panel Presentation and Discussion on Future Challenges for Imaging Instrumentation
- Oct 2005 Varian Inc, Palo Alto, CA
Positron Emission Tomography: Physics, Instrumentation and Scanners
- Nov 2005 Forbeck Foundation Symposium, Hilton Head, SC
Advanced Technologies for In Vivo Imaging of Cancer
- Dec 2005 Life Sciences Division Retreat, Lawrence Berkeley Natl Lab, Berkeley, CA
Presentations in Cancer Panel and Instrumentation Panel
- Jan 2006 Department of Biology Seminar, Santa Clara University, Santa Clara, CA
In Vivo Molecular Imaging
- Feb 2006 Cancer Biology Seminar, UC Davis Cancer Center, Sacramento, CA
Technologies for In Vivo Molecular Imaging of Cancer
- Mar 2006 Keynote Speaker, 2nd Small Animal SPECT Workshop, University of Arizona
Exploring the Resolution Limits of PET: Imaging at 1 mm and Beyond
- Apr 2006 Workshop: Quantifying Your Images, Experimental Biology 2006, San Francisco, CA
Quantitation of PET/CT and PET/MRI Images
- Apr 2006 Frontiers in Bioengineering Seminar, Beckman Institute, University of Illinois Urbana-Champaign
Advances in Technologies for Molecular Imaging
- Apr 2006 Medical Physics Seminar, Department of Radiology, University of Chicago
Advances in Technologies for Molecular Imaging
- Jun 2006 Society of Nuclear Medicine Annual Meeting, Henry Wagner Lectureship (Plenary Talk), San Diego, CA
Of Mice and Men and Positrons
- Jun 2006 Beckman Institute, California Institute of Technology
Technological Advances for In Vivo Molecular Imaging
- Sep 2006 NIBIB Council Meeting, Bethesda, MD
Advances in PET Imaging Technology: Past, Present and Future
- Sep 2006 University of Tübingen, Opening Ceremony for Preclinical Imaging Center, Keynote Address
Preclinical Imaging: New Tools for New Science
- Oct 2006 UC Davis Cancer Center Symposium
Translational Molecular Imaging: Past Achievements and Future Opportunities
- Nov 2006 University of Texas Southwestern Medical Center, 6th In Vivo Cancer Cellular and Molecular Imaging Symposium, Dallas, TX
Advances in Preclinical PET Imaging
- Nov 2006 UCLA Department of Molecular and Medical Pharmacology, Annual Retreat, Newport Beach, CA
In Vivo Imaging of Animal Models of Human Disease: New Technology for New Science
- Jan 2007 COBRA – Community of Bay-Area Radionuclide Imaging Meeting
Simultaneous PET and MR Imaging

- Feb 2007 University of Pennsylvania, Department of Biomedical Engineering, Seminar
In vivo Molecular Imaging with Positron Emission Tomography
- Mar 2007 University of California, Irvine, Department of Radiology, Seminar
High Resolution PET and PET/MRI for Preclinical Imaging
- Mar 2007 University of California, San Francisco, Molecular Imaging Program/Radiology, Seminar
New Technologies for In vivo Molecular Imaging with Positron Emission Tomography
- May 2007 International Society for Magnetic Resonance in Medicine, Annual Meeting, Berlin, Germany
Plenary Lecture: The Integration of PET and SPECT with MRI: How, Where and Why?
- Jun 2007 John S. Laughlin Lecture, Dept. of Medical Physics, Memorial Sloan Kettering Cancer Center, New York
Molecular Imaging with Positron Emission Tomography: Challenges and Opportunities
- Jun 2007 Sunnybrook Center for Health Sciences, Department of Medical Biophysics, Seminar, Toronto, CA
Advances in Preclinical PET and PET/MRI for Molecular Imaging.
- Sep 2007 Siemens Preclinical User's Meeting, Providence, RI
An Introduction to Quantitation in PET
- Sep 2007 Joint Molecular Imaging Conference – Pre-Conference Symposium – Molecular Medicine, Providence, RI
Simultaneous PET and MRI: A New Tool for Molecular Imaging?
- Sep 2007 Joint Molecular Imaging Conference – Pre-Conference Symposium – Clinical PET/CT, Providence, RI
A Dedicated PET/CT Scanner for Breast Imaging
- Nov 2007 Biophysics and Biophotonics Colloquium, UC Davis
Advanced Technology for In Vivo Molecular Imaging
- Jan 2008 Imaging: Pushing the Limits in Biomedical Research, ETH Zurich, Switzerland
Simultaneous PET and MRI: A New Tool for Biomedical Research?
- Feb 2008 2nd International Symposium on Animal Molecular Imaging, Chang Gung Hospital, Taiwan
Simultaneous PET and MRI: A New Tool for Molecular Imaging?
- Feb 2008 Memorial Sloan Kettering Cancer Center, New York, NY
In Vivo Molecular Imaging Technologies: New Tools for New Science
- Mar 2008 NCI Small Animal Imaging Resource Program Meeting, Washington University, St. Louis, MO
Simultaneous PET and MRI: New Opportunities for Cancer Imaging in Small Animals?
- Mar 2008 Clinical and Translational Science Center – Technologies Informational Workshop
The Center for Molecular and Genomic Imaging
- Apr 2008 Distinguished Seminar Speaker, Biomedical Engineering, University of Virginia, Charlottesville, VA
Integration of PET and MRI: Twice the Power or Double the Trouble?
- Jun 2008 Seminar, Functional Imaging Laboratory, University College London Institute of Neurology, London, UK
Simultaneous PET and MRI: A New Tool for Neuroimaging?
- Sep 2008 World Molecular Imaging Congress, Nice, France – Educational Workshop
An Introduction to PET/MRI
- Nov 2008 Keynote Address, 25th Anniversary, Department of Nuclear Medicine, Albert Einstein College of Medicine and Montefiore Medical Center, NY.
In Vivo Molecular Imaging in Basic and Preclinical Research: New Tools for New Science
- Jan 2009 Seminar, Cancer Imaging Program, UCLA Cancer Center, Los Angeles, CA
Multimodality Imaging of Cancer In Vivo
- Apr 2009 International Society for Magnetic Resonance in Medicine, Annual Meeting, Honolulu, Hawaii
Plenary Lecture: MR-PET: The Potential for Combined Modalities
- May 2009 Keynote Speaker, Research Symposium, Biomedical Physics Interdepartmental Graduate Program, UCLA, Los Angeles, CA
The Integration of PET and MRI - A New Tool for Biomedical Imaging
- Jun 2009 Frontiers of Biomedical Imaging, Vanderbilt University, Nashville, TN
Advances in Instrumentation for PET and PET/MRI

- Jun 2009 Engineering Conferences International: Advances in Optics for Biotechnology, Medicine and Surgery XI, Burlington, VT
In Vivo Optical Imaging of Cerenkov Radiation from β -emitting Radionuclides
- Aug 2009 Seminar, Department of Physics, Royal Marsden Hospital and Institute for Cancer Research, Sutton, UK.
Emerging Technology for Multimodality Imaging of Cancer
- Aug 2009 Seminar, Imaging Sciences Division, Radiology, St. Thomas' Hospital, Kings College London
Emerging Technologies for Molecular Imaging
- Oct 2009 Western Regional Society of Nuclear Medicine Annual Meeting, Monterey, CA
Imaging Technologies for Tracking Stem Cells
- Oct 2009 Western Regional Society of Nuclear Medicine Annual Meeting, Monterey, CA
Advances in PET Instrumentation
- Nov 2009 Center for Information Technology Research in the Interest of Society, Davis, CA
Integrated MRI and PET: A New Tool for Biomedical Imaging?
- Jan 2010 Seminar, Department of Biomedical Engineering, UC Davis, Davis, CA
Advances in Positron Emission Tomography for Preclinical Studies
- Mar 2010 Department of Medical Physics Seminar, University of Wisconsin, Madison, WI
In Vivo Optical Imaging of Cerenkov Radiation from β -Emitting Radionuclides
- Apr 2010 Distinguished Speaker Series, Department of Biomedical Engineering, UC Irvine, Irvine, CA
Optical Imaging of Radiotracers Using Cerenkov Luminescence
- May 2010 Benjamin Highman Symposium, Department of Pathology and Laboratory Medicine, UC Davis, Davis, CA
Translational Multimodality Imaging with PET/CT and PET/MR
- Jun 2010 Categorical Seminar, Society of Nuclear Medicine Annual Meeting, Salt Lake City, UT
Small Animal PET/MRI: A New Tool for Biomedical Imaging?
- Aug 2010 Institute of Bioengineering, Imperial College London, UK
From Radioactivity to Light: Imaging of Positron-Emitting Radionuclides In Vivo
- Sep 2010 Optics within Life Sciences, Quebec City, Canada
Cerenkov Luminescence Imaging: Foundations, Opportunities and Challenges.
- Nov 2010 Workshop on PET/MR, IEEE Medical Imaging Conference, Knoxville, TN, Invited Talk
The Birth and Rebirth of PET/MRI
- Nov 2010 Royal Society Meeting on Biomedical Optics, Kavli Centre, UK, Plenary Lecture
In Vivo Optical Molecular Imaging: Trends, Opportunities and Challenges
- Jan 2011 International Conference on PET/MRI, Osaka, Japan, Plenary Lecture
PET/MRI: Historical Perspectives and Future Opportunities.
- Jan 2011 SPIE Biomedical Optics, Photonics West, San Francisco, SF, Invited Talk
Preclinical Multimodal Optical and Radionuclide Imaging
- Mar 2011 GE Medical Advisory Board, Chicago, IL
PET/MR: Where Have We Been and Where Are We Going?
- Mar 2011 Department of Imaging Physics, MD Anderson Cancer Center, Houston, TX
In Vivo Imaging at the Interface of Nuclear and Optical Imaging
- Mar 2011 Bruce Hasegawa Memorial Lecture, Department of Radiology, UC San Francisco, CA
New Directions in Multimodal Nuclear Imaging
- Apr 2011 27th Southern Biomedical Engineering Conference, Univ. of Texas, Arlington, Keynote Dinner Speech
Seeing the Light – In Vivo Molecular Imaging
- Jun 2011 Categorical Seminar, Society of Nuclear Medicine Annual Meeting, San Antonio, TX
Cerenkov Luminescence Imaging – A New Tool for Molecular Imaging?
- Jun 2011 Emerging Technologies, Society of Nuclear Medicine Annual Meeting, San Antonio, TX
Cerenkov Luminescence Imaging – Introduction to Basic Principles
- Jul 2011 Institute of Physics Optical Group, Optical Techniques in Clinical Practice, London, UK
In Vivo Optical Molecular Imaging

- Sep 2011 Caliper Owners Group Meeting, San Diego, CA
Cerenkov Luminescence Imaging: Finding Its Niche
- Sep 2011 Imaging in 2020, Jackson Hole, WY
Cerenkov Luminescence Imaging: Imaging Faster than the Speed of Light
- Sep 2011 GE Healthcare, Waukesha, WI
PET/MRI: Where have we been and where are we going?
- Nov 2011 Philips Healthcare, San Jose, CA
Pushing the Spatial Resolution Limits for PET and PET/MRI
- Dec 2011 Redington Memorial Lecture, Duke University, Durham, NC
New Technologies for Advancing In Vivo Imaging of Cancer
- Jan 2012 Oncologic Imaging Seminar, Siteman Cancer Center, Washington University, St. Louis, MO
Advances in Cancer Imaging
- Feb 2012 Life Sciences Division Seminar, Lawrence Berkeley National Laboratory, Berkeley, CA
Faster than the Speed of Light – In Vivo Imaging using Cerenkov Radiation
- Apr 2012 Plenary Lecture, Australia & New Zealand Society of Nuclear Medicine Conference, Melbourne, Australia
New Advances and Instrumentation for Molecular Imaging
- Apr 2012 Physics Special Interest Group, PET/MRI Mini-Symposium, Australia and New Zealand Society of Nuclear Medicine Annual Conference, Melbourne, Australia
The Birth and Rebirth of PET/MRI
- Apr 2012 Siemens Breakfast Session, Australia and New Zealand Society of Nuclear Medicine Annual Conference, Melbourne, Australia
Preclinical PET/MRI: Systems and Early Applications
- May 2012 Keynote Address, Molecular Imaging Symposium, University of Sydney, Australia
Molecular Imaging: A Platform Technology for Molecular Medicine
- May 2012 Australia and New Zealand Society of Nuclear Medicine, New South Wales Branch Meeting, Sydney
PET/MRI: Build It and They will Come?
- May 2012 Plenary Talk, SORMA West 2012, Oakland, CA
Small-Animal PET: A Breeding Ground for Innovative Radiation Detection Development
- May 2012 Invited Lecture, PET/MR & SPECT/MR: New Paradigms for Combined Modalities in Molecular Imaging, Elba, Italy
Hybrid PET/MRI Technology: Quo Vadis?
- Jun 2012 Sacramento Area Regional Technology Alliance Meeting, Sacramento, CA
Advances in Molecular Imaging Instruments and Methods
- Jun 2012 Categorical Seminar, Society of Nuclear Medicine Annual Meeting, Miami, FL
PET/MRI Systems: Basic Aspects and Preclinical Development
- Jun 2012 IEEE/EMBS Summer School on Biomedical Imaging, Berder, France
Molecular Imaging (6 hours of lectures)
- Oct 2012 Department of Biomedical Engineering, Arizona State University, Tempe, AZ
Hybrid PET/MRI: Development, Applications and Advances
- Oct 2012 Edmund Kim Lectureship, Seoul National University, Seoul, Korea
Simultaneous PET/MRI: Development, Applications and Advances
- Oct 2012 Department of Electrical Engineering-Systems, University of Southern California, Los Angeles, CA
Hybrid PET/MRI: Development, Applications and Advances
- Jan 2013 Department of Radiation Oncology Medical Physics Grand Rounds, UCDCM, Sacramento, CA
Biomedical Engineering and the Center for Molecular and Genomic Imaging
- Feb 2013 State-of-the-Art Molecular Imaging in Cancer Biology and Therapy, AACR-SNMMI, San Diego, CA
Cerenkov Luminescence Imaging: A New Tool for Molecular Imaging?
- Mar 2013 Orthopedics Research Laboratory, UC Davis School of Medicine, Sacramento, CA
Imaging as a Translational Tool in Biomedical Research
- Apr 2013 Plenary Talk, International Symposium on Biomedical Imaging: From Nano to Macro. San Francisco, CA

- Nuclear Molecular Imaging: Breaking the Resolution and Sensitivity Barriers*
- Apr 2013 Photons Across Medicine – Optical Society of America Topical Meeting, Waikoloa, Hawaii
Molecular Imaging at the Interface of Optical Imaging and Nuclear Medicine
- May 2013 Keynote Address: PET/MR and SPECT/MR, PSMR13, Aachen, Germany
PET/MRI: Trends, Needs and Challenges,
- May 2013 Philips Healthcare, Digital Silicon Photomultiplier Division, Aachen, Germany
Nuclear Molecular Imaging: Breaking the Resolution and Sensitivity Barriers
- May 2013 BrainPET 13, Shanghai, China
Novel Instrumentation Strategies for Neuroimaging with PET
- May 2013 Department of Biomedical Engineering, Zhejiang University, Hangzhou, China
Nuclear Molecular Imaging: Breaking the Resolution and Sensitivity Barriers
- Jun 2013 Molecular Imaging Seminar Series, Oregon Health Sciences University, Portland, OR
Hybrid PET/MRI: Development, Advances and Applications
- Jun 2013 Society of Nuclear Medicine and Molecular Imaging Annual Meeting, Vancouver, CA
Introduction to PET/MRI
- Jun 2013 Society of Nuclear Medicine and Molecular Imaging Annual Meeting, Vancouver, CA
PET/MRI for Preclinical Research
- Sep 2013 International Congress on Medical Physics, Brighton, UK
Hybrid PET/MRI: Quo Vadis?
- Sep 2013 International Congress on Medical Physics, Brighton, UK
Cerenkov Luminescence from Radionuclides: A New Tool for Imaging and Therapy?
- Sep 2013 Keynote Talk, Stanford University Department of Radiology Retreat, Asilomar, CA
Of Mice and Men: Delivering Molecular Imaging Technology to Advance Biomedical Research
- Nov 2013 Mouse Metabolic Phenotyping Center Imaging Symposium, Davis, CA
In Vivo and Biospecimen Imaging: Methods and Resources at the UC Davis Center for Molecular and Genomic Imaging
- Feb 2014 Molecular Imaging and Therapy Seminar, Memorial Sloan Kettering Cancer Center
Of Mice and Men: Delivering Molecular Imaging Technology to Advance Biomedical Research
- Feb 2014 Keynote Presentation, SPIE Medical Imaging Conference, San Diego, CA
Advancing Technologies for Preclinical Molecular Imaging
- Feb 2014 Shenzhen Institute of Advanced Technology, Shenzhen, China
Delivering Molecular Imaging Technology to Advance Biomedical Research
- Apr 2014 BMES Chapter Imaging Conference, Opening Talk, Davis, CA
From Mouse to Man: Advances in Imaging Made Clinically Relevant
- May 2014 Keynote Lecture, Opening of microPET Facility, School of Medicine, UNAM, Mexico City, Mexico
Preclinical and Basic Research using microPET
- May 2014 Symposium on Advances in Molecular Imaging, CLEO 2014, San Jose, CA
In Vivo Molecular Imaging using Cerenkov Luminescence
- Jun 2014 BIO International Convention, San Diego, CA
Seeing is Believing – How Imaging can add Value to Early-Stage Assets and Reduce Late-Stage Attrition
- Jun 2014 Gordon Research Conference, Lasers in Medicine and Biology, Holderness, NH
Exploiting the Interface between Nuclear and Optical Radiation for In Vivo Biomedical Imaging
- Sep 2014 Mediterranean Thematic Workshops in Advanced Molecular Imaging, Alghero, Sardinia, Italy
PET Technology Across Different Scales: Designs Driven by Applications
- Sep 2014 NCI Multi-Scale Imaging in Cancer Biology Workshop, Houston, TX
Translational Cancer Imaging with Positron Emission Tomography
- Sep 2014 Grand Rounds, Department of Radiology, University of Pennsylvania
EXPLORER: A Total Body PET Scanner with 40-fold Increase in Sensitivity
- Nov 2014 George V. Taplin Memorial Lecture - Western Regional Society of Nuclear Medicine, Seattle, WA

From Whole-Body to Total-Body PET

- Mar 2015 Plenary Talk, European Society for Molecular Imaging Annual Meeting, Tübingen, Germany
From Whole-Body to Total-Body PET: How to Achieve a 40-fold Increase in Sensitivity
- Jun 2015 Nuclear Science and Security Consortium (NSCC) Summer School, UC Davis, CA
Technologies for Medical Imaging of Radionuclides
- Nov 2015 Keynote Speaker, Engineering and Physical Sciences in Medicine 2015, Wellington, New Zealand
Cerenkov Luminescence Imaging
- Nov 2015 Keynote Speaker, Engineering and Physical Sciences in Medicine 2015, Wellington, New Zealand
Total-Body Positron Emission Tomography
- Nov 2015 Department of Physics Colloquium, University of Otago, New Zealand
Biomedical Imaging of Radionuclides
- Feb 2016 Keynote Presentation: SPIE Medical Imaging Conference, San Diego, CA
EXPLORER: Changing the Molecular Imaging Paradigm with Total-Body PET/CT
- Aug 2016 Joint AAPM/WMIS Session, AAPM Annual Conference, Washington DC
Total Body Metabolic Imaging
- Sep 2016 Gold Medal Lecture, World Molecular Imaging Conference, New York, NY
EXPLORing the Sensitivity Limits of Positron Emission Tomography
- Oct 2016 Dies Academicus, Invited Talk, University of Tübingen, Germany
Seeing is Believing: Advances in Medical Imaging Technology
- Nov 2016 IEEE Medical Imaging Conference, Plenary Talk, Strasbourg, France
Adventures in the Nuclear Medical Imaging Wonderland
- Nov 2016 EXPLORER Workshop, Charles Perkins Centre, University of Sydney, Invited Talk
Changing the Molecular Imaging Paradigm with Total-Body PET/CT
- Nov 2016 Northshore Hospital, Sydney, Medical Physics lecture
Changing the Molecular Imaging Paradigm with Total-Body PET/CT
- Mar 2017 Deutsche Physikalische Gesellschaft Spring Meeting, Münster, Germany
Advancing Molecular Imaging with Total-Body Positron Emission Tomography
- Mar 2017 Department of Nuclear Medicine, University of Münster, Germany
Advancing Molecular Imaging with Total-Body Positron Emission Tomography
- Mar 2017 PET Center, Yale University, New Haven, CT
Advancing Molecular Imaging with Total-Body Positron Emission Tomography
- Apr 2017 Grand Rounds, Department of Radiology, UC Davis, Davis, CA
Using Beautiful Physics to Advance Molecular Imaging
- Jun 2017 Workshop on Meso- and Macro-Scale Imaging, Chan-Zuckerberg Initiative, San Francisco, CA
Changing the Molecular Imaging Paradigm with Total-Body PET/CT
- Jun 2017 MiniEXPLORER Workshop, School of Veterinary Medicine, UC Davis, Davis, CA
Positron Emission Tomography and the EXPLORER Program
- Sep 2017 Institute for Automation, Chinese Academy of Sciences, Beijing, China
Total-Body Imaging with Positron Emission Tomography
- Sep 2017 Xidian University, Xi'an, China
Total-Body Imaging with Positron Emission Tomography
- Oct 2017 Welch Memorial Lecture, Washington University, St. Louis
Advancing Molecular Imaging with Total-Body Positron Emission Tomography
- Feb 2018 Center for Infection and Inflammation Imaging Research, Johns Hopkins University, Baltimore, MD
Total-Body Positron Emission Tomography
- Apr 2018 Total-Body PET Workshop, University of Sydney, Australia
Total-Body Positron Emission Tomography: Current Status and Future
- Apr 2018 Congress of the World Federation of Nuclear Medicine and Biology, Melbourne, Australia
The EXPLORER Project: Total-Body Positron Emission Tomography

- Apr 2018 Congress of the World Federation of Nuclear Medicine and Biology, Melbourne, Australia
Advancing Molecular Imaging Technologies
- Jun 2018 Department of Radiology, UCSF, San Francisco, CA
Total-Body Positron Emission Tomography
- Jun 2018 Invited Talk, Conference on Total-Body PET: From Mice to Men, Ghent, Belgium
Total-Body Positron Emission Tomography: New Opportunities through Unprecedented Sensitivity
- Sep 2018 American Society for Nuclear Cardiology, Annual Meeting, San Francisco, CA
EXPLORER: Total-Body Positron Emission Tomography
- Feb 2019 Department of Molecular and Medical Pharmacology, UCLA School of Medicine, Los Angeles, CA
Total-Body Positron Emission Tomography: The EXPLORER Story
- Feb 2019 Department of Radiology Grand Rounds, Mayo Clinic, Rochester, MN
Total-Body Positron Emission Tomography: The EXPLORER Story
- Mar 2019 Shenzhen Institute for Advanced Technology, Shenzhen, China
Total-Body Positron Emission Tomography: The EXPLORER Story
- Apr 2019 Translational and Molecular Imaging Institute, Icahn School of Medicine at Mt Sinai, New York, NY
EXPLORER: Total-Body Positron Emission Tomography
- May 2019 Cameron Lecture: University of Wisconsin, Madison, WI
Seeing is Believing: Total-Body Positron Emission Tomography
- May 2019 Kaplan Lecture: Brigham and Women's Hospital, Harvard Medical School, Boston, MA
Total-Body Positron Emission Tomography: The EXPLORER Story
- May 2019 Keynote Lecture: International Society for Radiopharmaceutical Science Annual Meeting, Beijing, China
Catalyzing the Development and Use of Radiopharmaceuticals with Total-Body PET
- Jun 2019 Keynote Lecture: Jagiellonian Symposium, Krakow, Poland
The EXPLORER Project: Total-Body Positron Emission Tomography
- Sep 2019 World Molecular Imaging Congress, Workshop, Montreal, Canada
New Opportunities for Imaging Infection and Inflammation using Total-Body PET
- Sep 2019 Department of Radiology Grand Rounds, Johns Hopkins University, Baltimore, MD
The EXPLORER Project: Total-Body Positron Emission Tomography
- Oct 2019 Brain Mapping Seminar, UCLA, Los Angeles, CA
Total-Body Positron Emission Tomography: Imaging the Brain and Beyond
- Nov 2019 Invited Talk: IEEE Nuclear Science Symposium and Medical Imaging Conference, Manchester, UK
Grand Challenges in Medical Imaging
- Nov 2019 Department of Physics Colloquium, UC Davis, Davis, CA
The EXPLORER Project: Total-Body Positron Emission Tomography
- Dec 2019 International Symposium on Theranostics/Precision Oncology, Bad Berka, Germany
Vide et Crede: Total-Body Positron Emission Tomography
- Jan 2020 NIH Workshop on Strategies for Clinical Imaging in Diabetes
Improved PET Sensitivity and Spatial Resolution on the Horizon
- Jul 2020 American Association of Physicists in Medicine, Annual Meeting (Virtual): Symposium: Total-Body PET
State-of-the-Art in Scanner Design and Technology
- Jul 2020 American Association of Physicists in Medicine, Annual Meeting (Virtual): Symposium: Thunder and Light(ning): Applications and Potential of Radiation Acoustics and Optics.
Towards Reconstructionless 3D Imaging of Positron-Emitting Radionuclides using Cerenkov Radiation
- Oct 2020 European Association of Nuclear Medicine, Annual Meeting (Virtual): Plenary Session
Marie Curie Lecture: Total-Body PET Physics and Development
- Nov 2020 Peter Valk Award Lecture, Society of Nuclear Medicine and Molecular Imaging (Virtual)
Total-Body Positron Emission Tomography with EXPLORER
- Dec 2020 2020 Imaging Symposium, Sherbrooke University, Canada (Virtual)
EXPLORER and Beyond: Advancing Technology for Nuclear Medical Imaging

- Apr 2021 Nordic Association of Clinical Physics (Virtual)
Total-Body Positron Emission Tomography
- Apr 2021 Wolfgang Becker Lectureship, German Society of Nuclear Medicine (Virtual)
Total-Body Positron Emission Tomography
- Apr 2021 Belgian Hospital Physicists Association (Virtual)
The EXPLORER Story: The Journey to Develop the First Total-Body Scanner
- Jun 2021 SB824 Symposium, Technical University Munich
Total-Body Positron Emission Tomography
- Jul 2021 Gambhir Symposium, Stanford University (Virtual)
Total-Body Positron Emission Tomography: A New Tool for Systems Medicine
- Sep 2021 First Annual Sanjiv Sam Gambhir Lectureship, Department of Radiology, Stanford University
Imaging at the Speed of Light: Innovations in Positron Emission Tomography
- Nov 2021 Japanese Society of Nuclear Medicine, Annual Meeting (Hybrid)
Total-Body PET: The Journey from microPET to EXPLORER
- Mar 2022 European Molecular Imaging Meeting, Opening Plenary Talk, Thessaloniki, Greece
Total-Body PET: A New Tool for Systems Medicine
- Apr 2022 Cornell/Weill Health, Brain Health Imaging Institute Seminar Series, Cornell University, New York, NY
Advancing Positron Emission Tomography: Imaging the Brain and Beyond
- Apr 2022 Department of Nuclear Engineering, UC Berkeley, Berkeley, CA
Imaging at the Speed of Light: Towards Reconstruction-Free Radionuclide Imaging
- May 2022 Grand Rounds, Department of Radiology, Emory University, Atlanta, GA
The EXPLORER Project: Total-Body Positron Emission Tomography
- Jun 2022 Fast Timing in Medical Imaging Workshop, Valencia, Spain
Reconstruction-Free Total-Body PET: Realizing the Full Potential of the Tracer Kinetic Method
- Jun 2022 Cassen Award Lecture, Society of Nuclear Medicine and Molecular Imaging, Vancouver, Canada
A Matter of Time
- Sep 2022 20th Anniversary, PET/CT Center, UNAM, Mexico City
The EXPLORER Project: Total-Body Positron Emission Tomography
- Sep 2022 Total-Body PET Conference, Edinburgh, Scotland
EXPLORER and Beyond: Challenges and Opportunities for Total-Body Human Imaging
- Oct 2022 Grand Rounds, Department of Radiology, UT Southwestern, Dallas
Total Body PET: Realizing the Full Potential of the Tracer Principle
- Oct 2022 Department of Nuclear Medicine, Medizinische Hochschule Hannover, Germany
Total Body PET: A Game-Changer in Molecular Imaging
- Jan 2023 Department of Physics, ETH Zurich, Switzerland
Advances in Instrumentation for Positron Emission Tomography
- Feb 2023 Department of Nuclear Medicine, Inselspital Bern, Switzerland
Advances in Instrumentation for Positron Emission Tomography
- Feb 2023 19th International Conference: Peace through Mind/Brain Science, Hamamatsu, Japan
Advanced Technology for Positron Emission Tomography and its Application for Human Biomedical Research
- Apr 2023 The Garmisch Symposium International: Image is Everything, Garmisch-Partenkirchen, Germany
Total-Body PET and Molecular Imaging in the Future
- Aug 2023 Multi-Center EXPLORER Forum, Shanghai, China
The EXPLORER Story: From Dream to Reality
- Sep 2023 Danube Symposium, Vienna, Austria
Molecular Imaging and Total-Body PET: The Basics
- Sep 2023 Global PET-MR Symposium, University of Washington, Seattle, WA
Positron Emission Tomography: Evolution and Revolution

- Oct 2023 Lawrence Berkeley National Laboratory, Division of Nuclear Science Colloquium, Berkeley, CA
Advanced Technology for Positron Emission Tomography (PET) and Applications in Human Biomedical Research
- Nov 2023 IEEE Nuclear Science Symposium and Medical Imaging Conference, Vancouver, Canada
Special Session on Megatrends, Roadmaps and Standards
Challenges, Unmet Needs and Opportunities in Nuclear Medical Science
- Nov 2023 Radiological Society of North America (RSNA) Plenary Talk, Chicago, IL
Total-Body PET: From Concept to Reality: A 15-Year Journey
- Dec 2023 Australian National Total-Body PET Facility Launch – Keynote Address, Sydney, Australia
The Total-Body PET Revolution: Impacting Diagnostic Medicine and Medical Research
- Feb 2024 Emeritus Faculty Celebration, UC Davis, Davis, CA
A Picture is Worth a Thousand Words – The World of Medical Imaging
- Feb 2024 Radiology Grand Rounds, Boston Children’s Hospital, Boston, MA
Talk 1: Total-Body PET: From Concept to Reality: A 15-Year Journey
Talk 2: Advanced Technology for Positron Emission Tomography (PET) and its Application for Human Biomedical Research
- Feb 2024 RWTH Aachen, Aachen, Germany
Advanced Technology for Positron Emission Tomography (PET)
- Mar 2024 7th Theranostics World Congress, Santiago, Chile
Total Body PET/CT and its Contributions to Theranostics
- Apr 2024 Japanese Congress of Radiology – Plenary Speaker, Yokohama, Japan
Positron Emission Tomography: Past, Present and Future

Workshops, Symposia and Conferences Organized:

- Nov 1993 IEEE Medical Imaging Conference Short Course “*Extraction of Functional Information with PET and NMR*”, San Francisco, CA
- Oct 1995 Deputy Chairman, IEEE Medical Imaging Conference, San Francisco, CA
- Oct 1995 Workshop on “*PET Instrumentation for Animal Imaging*”, San Francisco, CA
- Nov 1997 Symposium: “*High Resolution PET and SPECT Imaging in Small Animals*”, Albuquerque, NM
- Jun 1998 Society of Nuclear Medicine Annual Meeting, Categorical Seminar: “*Animal Imaging in Nuclear Medicine: Advanced Instruments, Methods and Applications*”, Toronto, CA
- Feb 1999 Society of Nuclear Medicine Midwinter Meeting: “*Nuclear Medicine in the 21st Century*”, Fort Lauderdale, FL.
- Jun 1999 *The Use of Dedicated Animal Scanners in Radiopharmaceutical Design and Evaluation*
Workshop at 13th International Symposium on Radiopharmaceutical Chemistry, St. Louis, MO
- Sep 1999 Conference on “*High Resolution Imaging in Small Animals with PET, MR and Other Modalities*”, Amsterdam, The Netherlands
- Dec 1999 RSNA, Special Focus Workshop, Chicago, IL
“Mouse Genomics and Phenotypic Imaging”
- Mar 2000 Short Course on “*PET and its Application in Drug Development*”, Lehigh University, PA
Society of Nuclear Imaging in Drug Development and Lehigh Educational Satellite Network
- Oct 2000 Session Organizer, Dual Modality Imaging, IEEE Nuclear Science and Medical Imaging Conference, Lyon, France
- May 2001 Workshop on “*Imaging in Medicine and Neuroscience*”
Institute of Pure and Applied Mathematics, UCLA
- Sep 2001 Conference on “*High Resolution Imaging in Small Animals with PET, MR and Other Modalities*”, Rockville, MD.

Oct 2001 Academy of Molecular Imaging Annual Meeting, Orlando, FL, *Molecular Imaging Sessions*

Oct 2002 Academy of Molecular Imaging Annual Meeting, San Diego, CA, IMI/HiRes Organizing Committee/Reviewer/Session Chair

Aug 2002 Society of Molecular Imaging 1st Annual Meeting, Boston, MA
Session Organizer and Chair

Oct 2002 NIH Workshop on "Developments in Molecular Imaging", Bethesda, MD
Co-Organizer (with Lee Rosen, NIH), Moderator and Speaker

Aug 2003 Society of Molecular Imaging 2nd Annual Meeting, San Francisco, CA
Session Organizer and Session Chair

Sep 2003 Academy of Molecular Imaging 2nd Annual Meeting, Madrid, Spain
Organizing Committee, Scientific Program Committee

Aug 2004 Society of Molecular Imaging 3rd Annual Meeting, St. Louis, MO
Session Organizer and Session Chair

Aug 2005 Society of Molecular Imaging 4th Annual Meeting, Cologne, Germany
Session Organizer and Session Chair

Nov 2005 IEEE Medical Imaging Conference, Puerto Rico
Conference Chair

Dec 2005 Workshop: An Introduction to Small Animal Imaging, UC Davis, Davis, CA
Workshop Organizer

Sep 2006 Society of Molecular Imaging, 5th Annual Meeting, Honolulu, HI
Steering Committee

Dec 2006 Workshop: An Introduction to Small Animal Imaging, UC Davis, Davis, CA
Workshop Organizer

Sep 2007 Society of Molecular Imaging and Academy of Molecular Imaging Annual Meeting, Providence, RI
Steering Committee

Mar 2008 Workshop: An Introduction to Small Animal Imaging, UC Davis, Davis, CA
Workshop Organizer

Sep 2008 World Molecular Imaging Congress, Nice, France
Steering Committee and Session Organizer

Sep 2008 World Molecular Imaging Congress, Nice, France
Educational Workshop: PET/MRI, Organizer and Speaker

Mar 2009 Workshop: An Introduction to Small Animal Imaging, UC Davis, Davis, CA
Workshop Organizer

Sep 2009 World Molecular Imaging Congress, Montreal, Canada
Steering Committee and Emphasis Co-Chair

Mar 2010 Workshop: An Introduction to Small Animal Imaging, UC Davis, Davis, CA
Workshop Organizer

Apr 2010 Optical Society of America Biomedical Optics meeting (BIOMED 2010), Miami, FL
Program Committee

Sep 2010 World Molecular Imaging Congress, Kyoto, Japan
Steering Committee and Emphasis Co-Chair

Mar 2011 Workshop: In Vivo Preclinical Imaging: An Introductory Workshop, UC Davis, Davis, CA
Workshop Organizer (sponsored by the Society for Nuclear Medicine)

Sep 2011 World Molecular Imaging Congress, San Diego, CA
Steering Committee and Emphasis Co-Chair

May 2012 PET/MR & SPECT/MR: New Paradigms for Combined Modalities in Molecular Imaging, Elba, Italy
International Advisory Committee

May 2013 PET/MR & SPECT/MR: New Paradigms for Combined Modalities in Molecular Imaging, Julich, Germany
International Advisory Committee

Sep 2013	50 th International Congress on Medical Physics, Brighton, UK <i>Deputy Program Chair</i>
Nov 2013	<i>Workshop for New Authors and Referees: A Guide to Best Practices in Writing and Reviewing Scientific Papers.</i> IEEE Medical Imaging Refresher Course, Seoul, Korea. <i>Refresher Course Organizer</i>
May 2014	PET/MR & SPECT/MR: New Paradigms for Combined Modalities in Molecular Imaging, Kos, Greece <i>International Advisory Committee</i>
Nov 2014	<i>Workshop for New Authors and Referees: A Guide to Best Practices in Writing and Reviewing Scientific Papers.</i> IEEE Medical Imaging Workshop, Seattle, WA. <i>Workshop Organizer</i>
Jul 2016	Physics in Medicine and Biology, 60 th Anniversary Symposium, Imperial College London, UK <i>Organizer</i>
Jul 2018	Total-Body PET: From Mice to Men, Ghent, Belgium <i>Scientific Committee</i>
Nov 2018	Workshop on Total-Body PET, IEEE Medical Imaging Conference, Sydney, Australia <i>Co-Organizer</i>
Sep 2018	<i>"Seeing is Believing: Advances in Medical Imaging"</i> , UC Davis Medical Center, Sacramento, CA <i>Organizer</i>
Jan 2020	<i>"Imaging of Inflammation"</i> , Department of Biomedical Engineering/Radiology, UC Davis, Davis CA <i>Organizer – Joint workshop with Medizinische Hochschule Hannover</i>
Nov 2023	IEEE Nuclear Science Symposium and Medical Imaging Conference, Vancouver, Canada <i>Topic Convenor: Total-body and Whole-body PET Systems</i>
2021-2024	Total-Body PET Conference <i>Scientific Committee</i>

Society Membership and Offices (selected)

Member, National Academy of Engineering (NAE) (elected 2016)
 Member, National Academy of Inventors (NAI) (elected 2017)
 Fellow, American Association for the Advancement of Science (AAAS) (elected 2017)
 Fellow, World Molecular Imaging Society (elected 2016)
 Fellow, Institute of Physics and Engineering in Medicine (UK) (elected 2011)
 Fellow, Biomedical Engineering Society (BMES) (elected 2010)
 Fellow, Institute of Electrical and Electronic Engineers (IEEE) (elected 2008)
 Fellow, American Institute for Biological and Medical Engineering (AIMBE) (elected 2008)
 Fellow, Institute of Physics (UK) (elected 2004)
 Member, Society for Nuclear Medicine and Molecular Imaging (SNMMI)
 Member, American Association of Physicists in Medicine (AAPM)
 Founding Member, Society for Molecular Imaging (SMI)

Member, International Organization of Medical Physics (IOMP) Publication Committee (2013-2021)
 Journals Committee, Institute of Physics in Medicine and Engineering (2012-2021)
 RSNA Molecular Imaging Committee (2007-2010)
 Council Member, Society for Molecular Imaging (2007-2009)
 Finance Committee, Society for Molecular Imaging (2008-2010)
 Board of Directors, Molecular Imaging Center of Excellence, Society of Nuclear Medicine (2005-2006)
 Basic Science – Emerging Technologies Committee, Society of Nuclear Medicine (2002-2005)
 Council Member, Society for Molecular Imaging (2003-2005)
 Council Member, IMI/HiRes, Academy for Molecular Imaging (2001-2003)
 Board of Directors, Society for Non-Invasive Imaging in Drug Development (SNIDD) (1999-2001)
 Chair, Education Committee, Society for Non-Invasive Imaging in Drug Development (SNIDD) (1999-2003)
 Nuclear Medical Science Imaging Technical Committee, IEEE Nuclear & Plasma Sciences Society (1996-1998)
 Education Committee, IEEE Nuclear & Plasma Sciences Society (1995-2000)

Advisory Panels and Boards (selected):

National Institutes of Biomedical Imaging and Bioengineering (NIBIB) Council Member (2020-present)

National Academy of Engineering, Section 2, Search Committee (2022-present)
 Stanford Molecular Imaging Scholars Program, External Advisory Board (2015 – 2023)
 Center for Gamma Ray Imaging, University of Arizona, Advisory Board (2012 – 2021)
 Claire Pomeroy Award Committee, Sacramento Area Regional Technology Alliance (2014 – 2016)
 International Advisory Committee, Institute of Biomedical and Health Engineering, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences (2014-2017)

Editorial Boards

Editor-in-Chief

Physics in Medicine and Biology (2012-2021)

Editorial Board

Molecular Imaging (2001-2020)
 Molecular Imaging and Biology (2001 – 2012)
 Physics in Medicine and Biology (2004 – 2011)
 Journal of Nuclear Medicine (2021 – present)

International Advisory Board

Physics in Medicine and Biology (2001-2004)

Grant Proposal Reviews (selected)

Panel Member, National Research Council of Canada, 5-year review of TRIUMF, 2022
 Juvenile Diabetes Research Foundation, March 2020
 NIH Director's Pioneer Awards, Jan/Feb 2012, Jan/Feb 2013
 NIH Mail Reviewer, May 2010, May 2011, Jan 2013, Sep 2016
 NIH Telephone Reviewer, May 2013
 NIH Center for Scientific Review College of Reviewers, 2010-2012
 Cancer Prevention and Research Institute of Texas, 2009-2012
 Society of Nuclear Medicine, Postdoctoral Fellowships, Reviewer, 2010
 NIH Challenge Grants, Mail Reviewer, May 2009
 NIH Biomedical Imaging Technology Study Section, Ad-Hoc Telephone Reviewer, February 2005
 NIH Biomedical Imaging Technology Study Section, Ad-Hoc Mail Reviewer, June 2004
 DOE Site Visit, Brookhaven National Laboratory, Neuroimaging & Neurochemistry Program, May 2004
 NIH, Diagnostic Imaging Study Section, Bethesda, MD, October 2003
 NCI Special Emphasis Panel, (ZCA1 SRRB-9 (M1)) In Vivo Cellular and Molecular Imaging Centers, Gaithersburg, MD, March 2003
 NIH Diagnostic Imaging Study Section, Bethesda, MD, October 2002
 NCI Special Emphasis Panel, NCI, Novel Technologies for Noninvasive Detection, Diagnosis and Treatment of Cancer (BAA N01-CM-97065-32), Gaithersburg, MD, June 1999
 Special Emphasis Review Committee, NIDDK, Imaging Pancreatic Beta Cell Mass, Function or Inflammation (RFA DK99-018), Chevy Chase, MD, August 2000
 Special Emphasis Panel, NIMH, Review of Program Project Grant (ZMH1 BRB-S), (via telephone), October 2001
 NIAID, Rapid Response Grant Program on Bioterrorism-Related Research (ZAI1-AC-M-M1), (via telephone), June 2002

University Service (selected)

Department:

Chairman	2007 – 2009
Executive Committee	2012 – 2023
Chair, Awards Committee	2010–2012, 2014–2019, 2022

College of Engineering:

COE Executive Committee	2010 – 2013
COE Awards Committee	2009 – 2010, 2022

School of Medicine:

UCDMC Imaging Research Center Executive Advisory Committee	2004 – 2023
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University:

Director, Center for Molecular and Genomic Imaging	2004 – 2016
Co-Director, Cancer Center Program 6: Biomedical Technologies Program	2010 – 2016

Thesis Advisor & Individuals Mentored**Graduate Students:**

<i>Stefan Siegel</i> (completed PhD) Biomedical Physics IDP (currently at Siemens Preclinical Solutions, Knoxville, TN))	1993-1996
<i>Mark Colgan</i> (completed MS) Biomedical Physics IDP (deceased)	1994-1997
<i>Amy Moore</i> (completed PhD) Neuroscience IDP (currently Independent Consultant, Northfield, MN)	1995-1999
<i>Niraj Doshi</i> (completed PhD) Biomedical Physics IDP (currently at Siemens Medical Solutions, Knoxville, TN)	1996 - 2000
<i>Randal Slates</i> (completed PhD) Biomedical Physics IDP (currently working in private radiotherapy practice, Santa Monica, CA)	1996 -2002
<i>Andrew Goertzen</i> (completed PhD) Biomedical Physics IDP (currently Professor, Radiology, University of Manitoba)	1999-2003
<i>Daniel Rubins</i> (completed PhD) Biomedical Physics IDP (currently Imaging Scientist at Merck Inc.)	1997-2003
<i>Jennifer Stickel</i> (completed PhD) Biomedical Engineering (currently Medical Physicist, Denver, CO)	2001-2006
<i>Hongjie Liang</i> (completed PhD) Biomedical Engineering (currently Program Leader, Rad-Icon, Sunnyvale, CA)	2002-2006
<i>Ciprian Catana</i> (completed PhD) Biomedical Engineering (currently Professor, MGH/Harvard)	2004-2007
<i>Huini Du</i> (completed PhD) Biomedical Engineering (currently Physicist, Toshiba Medical)	2004-2009
<i>Sara St. James</i> (completed PhD) Biomedical Engineering (currently Associate Professor and Medical Physicist, University of Utah)	2006-2010
<i>Melissa Freedenberg</i> (completed MS) Biomedical Engineering (currently Test Engineer, Stryker Endoscopes)	2007-2011
<i>Jeffrey Schmall</i> (completed PhD) Biomedical Engineering (currently Scientist, Reflexion Medical)	2009-2013
<i>Ruby Gill</i> (completed MS) Biomedical Engineering (current position unknown)	2010-2012
<i>Katherine Walker</i> (completed PhD) Biomedical Engineering (currently teaching Biomedical Engineering, Foothill College, CA)	2010-2014
<i>Ouyang (Charlie) Yu</i> (completed PhD) Biomedical Engineering (currently Consultant)	2011-2015
<i>Justin Klein</i> (completed PhD) Biomedical Engineering (currently Start-Up)	2011-2017
<i>Eric Berg</i> (completed PhD) Biomedical Engineering (currently Scientist, University of British Columbia)	2012-2016
<i>Nadine Bauer</i> (completed MS) Comparative Pathology	2013-2016
<i>Aaron Selfridge</i> (completed PhD) Biomedical Engineering (currently at Google)	2015-2020
<i>Sergio Ricardo Soares</i> (completed MS) Biomedical Engineering (currently Field Service Engineer, Ziehm Imaging)	2016-2019
<i>Elizabeth Li</i> (completed PhD)	2017-2022

Biomedical Engineering (currently Staff Scientist, University of Pennsylvania)	
<i>Yiran Wang (co-mentored with Guobao Wang, completed Ph.D.)</i>	2020-2023
Biomedical Engineering (currently postdoc, UCSF)	
<i>Ekaterina Shanina (co-mentored with Jinyi Qi)</i>	2021-present
Biomedical Engineering	
<i>Jiahao Xie (co-mentored with Junwei Du)</i>	2021-present
Biomedical Engineering	
Postdoctoral Fellows and Research Scientists:	
<i>Erkan Mumcuoglu, Ph.D.</i>	1994-1996
last known position working for Teledyne	
<i>Yiping Shao, Ph.D.</i>	1994-2001
currently Professor, UT Southwestern, Dallas, TX	
<i>Alexander Annala, Ph.D.</i>	1997-1999
last known position, Cedars-Sinai Hospital, Dept. of Surgery	
<i>Abdel Boutefnouchet</i>	1996-1998
current position unknown	
<i>Arion Chatziioannou, Ph.D.</i>	1997-2000
currently Professor, Molecular and Medical Pharmacology, UCLA	
<i>Yuan-Chuan Tai, Ph.D.</i>	2000-2001
currently Associate Professor, Mallinckrodt Radiology, Washington University, St. Louis	
<i>Yongfeng Yang, Ph.D.</i>	2002-2015
currently Scientist, Shenzhen Institute for Advanced Technology, Shenzhen, China	
<i>Vi-Hoa Tran, Ph.D.</i>	2002-2004
currently Scientist, GE Medical, Madison, WI	
<i>Purushottam Dokhale, Ph.D.</i>	2002-2004
currently Scientist, Teledyne Imaging Sensors, El Segundo, CA	
<i>Stefania Vecchi</i>	2002-2003
currently Scientist, I.N.F.N., Ferrara, Italy	
<i>Guido Zavattini, Ph.D.</i>	2002-2003
currently Faculty Researcher in Physics, University of Ferrara, Italy	
<i>Bernd Pichler, Ph.D.</i>	2003-2004
currently Professor and Dean of Medicine, University of Tübingen, Germany	
<i>Yibao Wu, Ph.D.</i>	2005-2011
currently Chief Scientist, Prescient Imaging, Santa Monica, CA	
<i>Gregory Mitchell, Ph.D.</i>	2005-2019
currently Self-Employed	
<i>Shrabani Sinha, Ph.D.</i>	2006-2008
currently Scientist, Rapiscan Inc.	
<i>Changqing Li, Ph.D.</i>	2007-2012
currently Associate Professor, Department of Bioengineering, UC Merced	
<i>Douglas Rowland, Ph.D.</i>	2007-2016
currently Project Scientist, Center for Molecular and Genomic Imaging, UC Davis	
<i>Michaelann Tartis, Ph.D.</i>	2007-2008
currently Professor, New Mexico Tech University	
<i>Abhijit Chaudhuri, Ph.D.</i>	2007-2008
currently Professor, Radiology and Director, Center for Molecular and Genomic Imaging, UC Davis	
<i>David Boucher, Ph.D.</i>	2008-2013
currently Anti-infectives Program, CBRN, Washington DC	

<i>Emilie Roncali, Ph.D.</i> currently Assistant Professor, Biomedical Engineering and Radiology, UC Davis (formerly Postdoc /Proj. Scientist)	2009-2020
<i>Julien Bec, M.Eng.</i> Associate Development Engineer, Biomedical Engineering, UC Davis	2009-2019
<i>Kun Di, M.S.</i> Assistant Specialist, Biomedical Engineering, UC Davis	2010-2014
<i>Xiaowei Bai, M.S.</i> Assistant Specialist, Biomedical Engineering, UC Davis	2014-2020
<i>Martin Judenhofer, Ph.D.</i> currently Research Scientist, Siemens Healthineers, Knoxville, TN	2010-2018
<i>Junwei Du, Ph.D.</i> Professional Researcher, Biomedical Engineering, UC Davis (formerly Postdoctoral Fellow)	2011-present
<i>Sun Il Kwon, Ph.D.</i> currently Assistant Professor, Biomedical Engineering, UC Davis (formerly Postdoctoral Fellow/Project Scientist)	2013-2023
<i>Andre Kyme, Ph.D.</i> currently Assistant Professor, University of Sydney	2014-2016
<i>Shamira Sridharan, Ph.D.</i> currently Postdoctoral Fellow, Dept of Urology, UC Davis	2015-2016
<i>Brijesh Patel</i> Junior Specialist, Biomedical Engineering (subsequently M.S. at Stanford University)	2016-2017
<i>Gerard Ariño-Estrada, Ph.D.</i> Professional Researcher, Biomedical Engineering, UC Davis (formerly Postdoctoral Fellow)	2016-present
<i>Peng Peng, Ph.D.</i> currently Scientist, Canon Medical, Chicago	2016-2019
<i>Ekaterina Mikhaylova, Ph.D.</i> currently Scientist, Positron, Zurich	2016-2019
<i>Levent Sensoy, Ph.D.</i> currently Medical Physics Residency (Radiation Therapy), UC Davis Medical Center	2016-2018
<i>Qian Wang, Ph.D.</i> currently Specialist, Radiology, UC Davis	2017-2022
<i>Benjamin Spencer, Ph.D.</i> Assistant Professor, Radiology UC Davis	2017-2024
<i>Negar Omidvari, Ph.D.</i> Project Scientist, Biomedical Engineering, UC Davis (formerly Postdoc)	2019-present
<i>Navid Zeraatkar, Ph.D.</i> currently Scientist, Siemens Healthineers	2020-2021
<i>Hamidreza Hemmati, Ph.D.</i> currently Postdoctoral Fellow, UC Davis	2022-2023
<i>Kevin Chung, Ph.D.</i> Postdoctoral Fellow, Radiology, UC Davis	2023-present

Bibliography (h-index 97 (Google Scholar))

Peer-Reviewed Research Papers

- Ott RJ, Marsden PK, Flower MA, Webb S, **Cherry SR**, McCreedy VR, Bateman JE. Clinical PET with a large-area multiwire proportional chamber PET camera. *Nucl Inst & Meth* 1988; A269: 36-442.
- Marsden PK, Ott RJ, Bateman JE, **Cherry SR**, Flower MA, Webb S. The performance of a multiwire proportional chamber positron camera for clinical use. *Phys Med Biol* 1989; 34: 1043-1062.

3. **Cherry SR**, Marsden PK, Ott RJ, Flower MA, Webb S, Babich JW. Image-quantification with a large-area multiwire proportional chamber positron camera (MUP-PET). *Eur J Nucl Med* 1989; 15: 694-700.
4. **Cherry SR**, Carnochan P, Babich JW, Serafini F, Rowell NP, Watson I. Quantitative in vivo measurements of tumor perfusion using rubidium-81 and positron emission tomography. *J Nucl Med* 1990; 31:1307-1315.
5. **Cherry SR**, Dahlbom M, Hoffman EJ. 3-D positron emission tomography using a conventional multi-slice tomograph without septa. *J Comput Assist Tomogr* 1991; 15: 655-668.
6. Ott RJ, Brada M, Flower MA, Babich JW, **Cherry SR**, Deehan BJ. Measurements of blood-brain barrier permeability in patients undergoing radiotherapy and chemotherapy for primary cerebral lymphoma. *Eur J Cancer* 1991; 27: 1356-1361.
7. **Cherry SR**, Dahlbom M, Hoffman EJ. Evaluation of a 3D reconstruction algorithm for multi-slice PET scanners. *Phys Med Biol* 1992; 37: 779-790.
8. Cutler PD, **Cherry SR**, Hoffman EJ, Digby WM, Phelps ME. Design features and performance of a PET system for animal research. *J Nucl Med* 1992; 33: 595-604.
9. **Cherry SR**, Dahlbom M, Hoffman EJ. High sensitivity, total body PET scanning using 3D data acquisition and reconstruction. *IEEE Trans Nucl Sci* 1992; 39: 1088-1092.
10. Dahlbom M, Yu DC, **Cherry SR**, Chatziioannou A, Hoffman EJ. Methods for improving image quality in whole-body PET scanning. *IEEE Trans Nucl Sci*. 1992; 39: 1079-1083.
11. Woods RP, **Cherry SR**, Mazziotta JC. Rapid automated algorithm for aligning and reslicing PET images. *J Comput Assist Tomogr* 1992; 16: 620-633.
12. Meikle SR, Dahlbom M, **Cherry SR**. Attenuation correction using count-limited transmission data in positron emission tomography. *J Nucl Med* 1993; 34: 143-150.
13. **Cherry SR**, Woods RP, Hoffman EJ, Mazziotta JC. Improved detection of focal cerebral blood flow changes using 3D positron emission tomography. *J. Cereb Blood Flow Metab* 1993; 13: 630-638.
14. **Cherry SR**, Meikle SR, Hoffman EJ. Correction and characterization of scattered events in 3-D PET using scanners with retractable septa. *J Nucl Med* 1993; 34: 671-678.
15. Woods RP, Mazziotta JC, **Cherry SR**. MRI-PET registration with automated algorithm. *J Comput Assist Tomogr* 1993; 17: 536-546.
16. Dahlbom M, **Cherry SR**, Eriksson L, Hoffman EJ, Wienhard K. Optimization of PET instrumentation for brain activation studies. *IEEE Trans Nucl Sci*. 1993; 40: 1048-1054.
17. Guerrero TM, **Cherry SR**, Dahlbom M, Ricci AR, Hoffman EJ. Fast implementations of 3D PET reconstruction using vector and parallel programming techniques. *IEEE Trans Nucl Sci*. 1993; 40: 1082-1086.
18. Mumcuoglu EU, Leahy R, **Cherry SR**, Zhou Z. Fast gradient-based methods for Bayesian reconstruction of transmission and emission PET images. *IEEE Trans Med Imag* 1994; 13: 687-701
19. Young H, Carnochan P, Zweit J, Babich JW, **Cherry SR**, Ott RJ. Evaluation of copper(II)-pyruvaldehyde bis (N-4-methylthiosemicarbazone) for tissue blood flow measurement using a trapped tracer model. *Eur J Nucl Med* 1994; 21: 336-341.
20. **Cherry SR**, Siegel S, Ricci AR, Eriksson L, Hoffman EJ, Phelps ME. Development of position sensitive detectors for use in positron emission tomography of small animals. *Nucl Inst Meth* 1994; A348: 613-617.
21. Tornai MP, Hoffman EJ, **Cherry SR**. Effect of refraction index and light sharing on detector element identification for 2D detector modules in positron emission tomography. *Nucl Inst Meth* 1994; A348: 618-622.
22. Young H, Carnochan P, Zweit J, Babich J, **Cherry SR**, Ott RJ. Tissue blood flow estimation with copper(II)-pyruvaldehyde bis (N-4-methylthiosemicarbazone) and PET. *J Nucl Biol Med* 1994; 38(4 Suppl 1): 89-91.
23. **Cherry SR**, Woods RP, Doshi NK, Banerjee PK, Mazziotta JC. Improved signal-to-noise in PET activation studies using switched paradigms. *J Nucl Med* 1995; 36: 307-314.
24. **Cherry SR**, Shao Y, Tornai MP, Siegel S, Ricci AR, Phelps ME. Collection of scintillation light from small BGO crystals. *IEEE Trans Nucl Sci* 1995; 42: 1058-1063.
25. **Cherry SR**, Huang S-C. Effects of scatter on model parameter estimates in 3D PET studies of the human brain. *IEEE Trans Nucl Sci* 1995; 42: 1174-1179.

26. **Cherry SR**, Tornai MP, Levin CS, Siegel S, Hoffman EJ, Andreaco MA, Williams CW. A comparison of PET detector modules employing rectangular and round photomultiplier tubes. *IEEE Trans Nucl Sci* 1995; 42: 1064-1068.
27. Siegel S, **Cherry SR**, Ricci AR, Shao Y, Phelps ME. Development of continuous detectors for a high resolution animal PET system. *IEEE Trans Nucl Sci* 1995; 42: 1069-1074.
28. Stearns CW, **Cherry SR**, Thompson CJ. NECR analysis of 3D brain PET scanner designs. *IEEE Trans Nucl Sci* 1995; 42: 1075-1079.
29. Wang YJ, Patt BE, Iwanczyk JS, **Cherry SR**, Shao S. High efficiency CsI(Tl)/HgI₂ gamma ray spectrometers. *IEEE Trans Nucl Sci* 1995; 42: 601-605.
30. Barrio JR, Huang SC, Yu DC, Melega WP, Quintana J, **Cherry SR**, Jacobson A, Namavari M, Satyamurthy N, Phelps ME. Radiofluorinated L-m-Tyrosines: New in-vivo probes for central dopamine biochemistry. *J. Cereb Blood Flow Metab* 1996; 16: 667-678.
31. Mumcuoglu EU, Leahy RM, **Cherry SR**. Bayesian reconstruction of PET images: Quantitative methodology and performance analysis. *Phys Med Biol* 1996; 41: 1777-1807.
32. **Cherry SR**, Shao Y, Siegel S, Silverman RW, Mumcuoglu E, Meadors K, Phelps ME. Optical fiber readout of scintillator arrays using a multi-channel PMT: A high resolution PET detector for animal imaging. *IEEE Trans Nucl Sci* 1996; 43: 1932-1937.
33. Shao Y, **Cherry SR**, Siegel S, Silverman RW. A study of inter-crystal scatter in small scintillator arrays designed for high resolution PET imaging. *IEEE Trans Nucl Sci* 1996; 43: 1938-1944.
34. Siegel S, Silverman RW, Shao Y, **Cherry SR**. Simple charge division readouts for imaging scintillator arrays using a multi-channel PMT. *IEEE Trans Nucl Sci* 1996; 43: 1634-1641.
35. Wang YJ, Patt BE, Iwanczyk JS, **Cherry SR**, Shao Y. Detector optimization for hand-held CsI(Tl)/HgI₂ gamma ray scintillation spectrometer applications. *IEEE Trans Nucl Sci* 1996; 43: 1277-1281.
36. Melega WP, Raleigh MJ, Stout DB, DeSalles AA, **Cherry SR**, Blurton Jones M, Morton GG, Huang SC, Phelps ME. Longitudinal behavioral and 6-[F-18]fluoro-L-DOPA-PET assessment in MPTP-hemiparkinsonian monkeys. *Exp Neur* 1996; 141: 318-329.
37. Levin CS, Tornai MP, **Cherry SR**, MacDonald LR, Hoffman EJ. Compton scatter and x-ray crosstalk and the use of very thin intercrystal septa in high resolution PET detectors. *IEEE Trans Nucl Sci* 1997; 44: 218-224.
38. Shao Y, **Cherry SR**, Siegel S, Silverman RW, Majewski S. Evaluation of multi-channel PMT's for readout of scintillator arrays. *Nucl Inst Meth* 1997; A390: 209-218.
39. Shao Y, **Cherry SR**, Farahani K, Meadors K, Siegel S, Silverman RW, Marsden PK. Simultaneous PET and MR imaging. *Phys Med Bio* 1997; 42: 1965-1970.
40. **Cherry SR**, Shao Y, Silverman RW, Meadors K, Siegel S, Chatziioannou A, Young JW, Jones WF, Moyers JC, Newport D, Boutefnouchet A, Farquhar TH, Andreaco M, Paulus MJ, Binkley DM, Nutt R, Phelps ME. MicroPET: a high resolution PET scanner for imaging small animals. *IEEE Trans Nucl Sci* 1997; 44: 1161-66.
41. Shao Y, **Cherry SR**, Farahani K, Slates R, Silverman RW, Meadors K, Bowery A, Siegel S, Marsden PK, Garlick P, Cave A, Parkes H, Buchanan M. Development of a PET detector system compatible with MRI/NMR systems. *IEEE Trans Nucl Sci* 1997; 44: 1167-1171.
42. Martinez ZA, Colgan M, Baxter LR, Quintana J, Siegel S, Chatziioannou A, **Cherry SR**, Mazziotta JC, Phelps ME. Oral F-18 fluoro-2-deoxyglucose for primate PET studies without behavioral restraint - demonstration of principle. *American Journal of Primatology* 1997; 42: 215-224.
43. Garlick PB, Marsden PK, Cave AC, Parkes HG, Slates R, Shao Y, Silverman RW, **Cherry SR**. PET and NMR dual acquisition (PANDA): applications to isolated, perfused rat hearts. *NMR in Biomedicine* 1997; 10: 138-42.
44. Woods RP, Grafton ST, Holmes CJ, **Cherry SR**, Mazziotta JC. Automated image registration: I. General methods and intrasubject validation. *J Comput Assist Tomogr* 1998; 22: 139-152.
45. Green LA, Gambhir SS, Srinivasan A, Banerjee PK, Hoh CK, **Cherry SR**, Sharfstein S, Barrio JR, Hershan H, Phelps ME. Non-invasive methods for quantitating blood time-activity curves from FDG PET mice images. *J Nucl Med* 1998; 39: 729-734.
46. Qi J, Leahy RM, **Cherry SR**, Chatziioannou A, Farquhar TH. High resolution 3D Bayesian image reconstruction using the microPET small animal scanner. *Phys Med Biol* 1998; 43: 1001- 1013.
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