CURRICULUM VITÆ

NAME: Dale Lindsay BAILEY

CITIZENSHIP: Australian & British

RESIDENCE: Sydney, Australia

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PRESENT POSITION

Principal Medical Physics Specialist, Department of Nuclear Medicine, Royal North Shore Hospital, Sydney

Professor, Faculty of Medicine & Health, University of Sydney

Honorary Affiliate, School of Physics, University of Sydney

ACADEMIC RECORD

Tertiary:

PhD (Physics), University of Surrey, UK (1992-1996)

Thesis title: *"Quantification in 3D Positron Emission Tomography"*

MAppSc (Physics), University of Technology, Sydney (1984-1986)

Thesis title: "*Towards Quantitation in SPECT: A Dual Radionuclide Approach"*

BAppSc (*Hons*) (Physics), NSW Institute of Technology (1980-83)

Thesis title: *"Rotating & Planar Displays in Nuclear Medicine"*

Secondary: Higher School Certificate, Narwee Boys' High School, Sydney, NSW (1971-76)

Other Qualifications:

Certificate in Nuclear Medicine Technology, Sydney Technical College (1977-79)

Diploma in Radioisotopes, Australian School of Nuclear Technology (1981)

Radiation Protection Supervisor's Course (Unsealed Sources), School of Medicine, King's College, London, UK (1999)

Accredited Medical Physics Specialist in Nuclear Medicine Physics (ACPSEM) (2004) (*Registration No.R00042*)

POSTS HELD

2019-2021	Director, Sydney Vital Translational Cancer Research Centre (CINSW) (Part-time)
2010-present	Professor, Faculty of Medicine & Health, University of Sydney (Part-time)
2010-2019	Hon. Affiliate, Faculty of Medicine & Health (Northern Clinical School), University of Sydney
2010-present	Hon. Affiliate, School of Physics, University of Sydney
2006-2009	Associate Professor, Discipline of Medical Radiation Sciences, University of Sydney (Part-time)
2006-2009	Honorary Associate, School of Physics, Faculty of Science, University of Sydney
2003-2009	Clinical Associate Professor, Faculty of Medicine (Northern Clinical School), University of Sydney
2003-2006	Senior Lecturer in Physics, School of Medical Radiation Sciences, University of Sydney (Part-time)
2002-present	Principal Medical Physics Specialist, Dept of Nuclear Medicine, Royal North Shore Hospital, Sydney
2001-2005	"Recognised Teacher" in Medicine, King's College London
2000-2002	Honorary Senior Lecturer in Radiological Sciences, King's College, London
1999-2002	Consultant Physicist-in-Charge, Department of Nuclear Medicine, Guy's & St Thomas' Hospital, London
1997-2000	Honorary Lecturer in Radiological Sciences, United Medical & Dental Schools, London
1994-1999	Senior Non-Clinical Scientist (Physics), MRC Cyclotron Unit, Hammersmith Hospital, London
1989-91	Visiting Colleague, MRC Cyclotron Unit, Hammersmith Hospital, London
1983-93	Scientific Officer (Physics), Dept of Nuclear Medicine, Royal Prince Alfred Hospital, Sydney
1983	Visiting Lecturer in Radiology, Harvard Medical School, Boston, USA
1981	Trainee Physicist, Australian Atomic Energy Commission, Sydney
1977-79	Trainee in Nuclear Medicine Technology, St George Hospital, Sydney

MEMBERSHIP OF PROFESSIONAL BODIES

Member	Royal College of Physicians (London) (2019-present)
Fellow	Australian College of Physical Scientists & Engineers in Medicine (2007-present)
Medical Physics Specialist	Australian College of Physical Scientists & Engineers in Medicine (2004-present)
Chartered Scientist (CSci)	UK Science Council (2004-present - Registration number: PEM 108 008825)
Member	American Society of Nuclear Cardiology (2003-2010)
Fellow	Institute of Physics and Engineering in Medicine (2001-present)
Affiliate	Royal College of Physicians (London) (2000-2019)
Member	Institute of Physics and Engineering in Medicine (1999-2000)
Member	Society of Nuclear Medicine (1991-present)
Member	Australian College of Physical Scientists & Engineers in Medicine (1988-2007)
Assoc. Member	Australian College of Physical Scientists in Medicine (1978-1987)
Member	Australian & New Zealand Society of Nuclear Medicine (1977-1993,2003-present)

HONORARY POSITIONS, BOARD APPOINTMENTS

2022-present	Chair, Better Healthcare Technology Foundation (ACPSEM)
2021-2023	Chair, Conference Convening Committee ANZSNM
2019-present	Vice President and Regional Representative, Asia-Oceania Fed. of Nuclear Medicine & Biology
2019-present	ESHI^{MT} Ambassador for Australia (*European Society for Hybrid, Molecular & Translational Imaging*)
2016-2017	President, ANZSNM
2014-2019	Scientific Advisor, Clarity Pharmaceuticals (AUS)
2014-present	Honorary Affiliate, Woolcock Institute for Medical Research
2013-present	Chair, ANZSNM Scientific Advisory Panel
2013-2015	Vice-President, ANZSNM
2012-present	ANZSNM Federal Council (NSW Representative) member
2009-2015	ANZSNM International Relations Committee member
2007-08	Chair - Royal North Shore/University of Sydney "Advanced Research & Clinical High-Field Imaging" (3T MRI) Facility Scientific Committee
2006, 2012	Chair - Working Party of ANZSNM Technical Standards Committee which developed national guidelines for PET facility accreditation ("*Requirements for PET Accreditation (Instrumentation & Radiation Safety*")
2005-07	Chair - Royal North Shore Hospital Scientific Staff Council
2005-06	Co-Chair - NSW Health Nuclear Medicine Services Network (GMCT)
2003-04	Council member - Royal North Shore Hospital Scientific Staff Council
2003-04	Member - Attenuation Correction Task Group, American Society of Nuclear Cardiology
2000-02	Member - Nuclear Medicine Software Working Party (IPEM/BNMS) UK
2000-01	Member - Medical Advisory Board, *Research Systems Inc*., Boulder CO, USA
1986-89	Member - Australian & New Zealand Society of Nuclear Medicine Accreditation Board (non-medical graduate representative)

JOURNALS & REVIEWING

2017-present Member, Editorial Board, Journal of Medical Imaging & Radiation Sciences
2014-2016 Associate Editor – *European of Journal Nuclear Medicine & Molecular Imaging - Physics*
2013-present Associate Editor (Oceania) - *Asia Oceania Journal of Nuclear Medicine & Biology*
2000-2003 Member - Editorial Board, *Physics in Medicine & Biology*
1994- present Reviewer - *Physics in Medicine & Biology*, Published by the Institute of Physics (UK)
1992- present Reviewer - *Journal of Nuclear Medicine*, The Society of Nuclear Medicine, New York
1991- present Reviewer - *Transactions in Medical Imaging*/*Transactions on Nuclear Science*, The Institute of Electrical and Electronic Engineers, New York

AWARDS, HONOURS, SCHOLARSHIPS

2024 Pioneer Lecturer, *Australian & New Zealand Society of Nuclear Medicine*, Christchurch, (NZ)
2020 Winner *Arthur M.Weis Prize* at SNMMI Annual Meeting "*for outstanding original work in Radiation Safety and Dosimetry*" (with Harry Marquis)
2015 Winner *Gammasonics Prize* at ANZSNM ASM (Rotorua, NZ) for best paper in Radiation Physics section (with Nick Forwood)
2014 Winner *Eckert & Ziegler Prize* at EANM Annual Congress (Gothenburg, SWE) for "*one of the five most convincing abstracts this year*" (with Kathy Willowson)
2014 Winner *Gammasonics Prize* at ANZSNM ASM (Adelaide) for best paper in Radiation Physics section (with Kathy Willowson)
2011 Distinguished Lecturer, *The Dr RD Lele Oration*, Association of Nuclear Medicine Physicians of India Annual Meeting, Hyderabad, India
2009 Winner *ANSTO Award* at ANZSNM ASM (Sydney) "*for significant innovation in research or clinical practice in the field of Nuclear Medicine*"
2008 ACPSEM Richard Bates Travel Scholarship recipient
2008 Recipient, Royal North Shore Scientific Staff Council International Study Fellowship
2008 Australian Academy of Science, North American Travel Award (Memorial Sloan Kettering Cancer Center, NY)
2005 Grand Prize winner, University of Sydney "Innovation Challenge" for the concept company *PharmaScint*
2004 Lowenthal Lecturer, *Australian & New Zealand Society of Nuclear Medicine*, Wellington (NZ)
2000 Lowenthal Lecturer, *Australian & New Zealand Society of Nuclear Medicine*, Adelaide
1993 Royal Society/Australian Academy of Science - Scientific Exchange Award, London
1992 Visiting Research Scientist, University of British Columbia and TRIUMF, Vancouver, Canada
1988 Boyce Worthley Prize for Young Investigators (Australian College of Physical Sciences in Medicine)

INVITED PRESENTATIONS, CONSULTANCIES, EXPERT MISSIONS, etc

2024 Invited Annual Daniel P.Biello Lecturer, Mallinckrodt Institute of Radiology, St Louis, MO, USA
2024 Invited Plenary Speaker, 1st China Theranostics Symposium, Xi'An, China
2023 Invited Plenary Speaker, South African Society of Nuclear Medicine, Gqebera, RSA
2023 Invited Plenary Speaker, *MEFOMP 2023 Medical Physics Conference*, Muscat, Oman
2022 Invited Plenary Speaker, *Engineering & Physical Sciences in Medicine Conference,* Adelaide
2022 Invited Plenary Speaker, XIIIth *World Congress of Nuclear Medicine and Biology*, Kyoto, Japan
2022 Invited Speaker, *CI4CC 2022*, Santa Barbara, CA, USA
2022 Invited Workshop Speaker, *Gordon Research Conference on Theranostics*, Maine, USA
2022 Invited Plenary Speaker*, IUPESM World Congress 2022*, Singapore
2022 Invited Guest Speaker, Ipsen Pharmaceuticals, *"Theranostics"* (Virtual)
2022 Invited Speaker, *International Conference on Radiation Medicine*, Riyadh, Saudi Arabia (Virtual)
2021 Invited Speaker, *Conference on Applied Radiation Metrology* - National Physical Laboratory (UK) (Virtual)
2021 Invited Speaker, *ASCO GI* (Virtual)
2019 Invited Moderator: SPECT Panel Discussions, *Siemens World Molecular Imaging Summit*, Lausanne
2019 Invited Plenary Speaker, *Asia & Oceania Congress of Nuclear Medicine & Biology*, Shanghai
2019 Invited Plenary Speaker, *Australian & New Zealand Society of Nuclear Medicine*, Adelaide
2019 Invited Plenary Speaker, *British Nuclear Medicine Society*, Oxford, UK
2019 Invited Plenary Speaker, *Kuwaiti Society of Nuclear Medicine Annual Meeting*, Kuwait City
2018 Invited Highlights Lecturer, *IEEE Medical Imaging Conference and Nuclear Science Symposium*, Sydney
2018 Invited Plenary Speaker, *American Association of Physicists in Medicine Annual Meeting*, Nashville TN, USA
2018 Invited Highlights Lecturer, *12th Congress of World Federation of Nuclear Medicine & Biology*, Melbourne
2018 Invited Plenary Speaker, *International Conference on Radiation Medicine*, Riyadh, Saudi Arabia
2017 Invited Plenary Speaker, *7th Gulf Nuclear Medicine Conference*, Muscat, Sultanate of Oman
2017 Invited Speaker, *1st Sirtex Australian Workshop*, Melbourne
2017 Invited Speaker, *RAINS Symposium 2017*, Port Macquarie, NSW
2017 Invited Guest Speaker, *ANZSNM NZ Branch Meeting*, Hamilton, NZ

2017 Invited Plenary Speaker, *Fisika Medis dan Biofisika 2017*, Depok, Jakarta, Indonesia
2016 Invited Plenary Speaker, *4th World Theranostics Symposium*, Melbourne
2016 Invited Speaker, *RAINS Symposium 2016*, Wagga Wagga, NSW
2016 Distinguished Lecturer – Ipsen Pharmaceuticals, *"An Introduction to Nuclear Medicine"*, Paris, France
2016 Invited Guest Speaker – *PET/MRI Symposium*, Translational Research Institute, Brisbane
2016 Invited Guest Speaker – Monash Biomedical Imaging, *PET/MRI Opening Imaging Symposium*, Melbourne
2016 Invited Plenary Speaker, *Intl Society for Magnetic Resonance in Medicine Annual Conference 2016*, Singapore
2015 Invited Plenary Speaker, *1st SAHMRI Molecular Imaging Symposium*, Adelaide
2015 Invited Guest Speaker – *25th Anniversary Symposium*, QLD ACPSEM Meeting, Brisbane
2015 Invited Guest Speaker – *Indonesian Internal Dosimetry Course*, Bandung, Indonesia
2015 Invited Speaker, *ANZNET 2015 (Novartis),* Melbourne
2015 Invited Guest Speaker – *Memorial Sloane Kettering Cancer Center*, New York
2015 Invited Plenary Speaker, *4th PET/MRI Symposium*, Tubingen, Germany
2015 Invited Guest Speaker – *Update on Nuclear Medicine Internal Dosimetry Symposium*, Jakarta, Indonesia
2014 Invited Guest Lecturer – AINSE Winter School, ANSTO, Lucas Heights
2011 Invited Plenary Lecturer, Siemens *Second Biograph World Summit*, Munich
2014 Distinguished Guest Lecturer – ANSTO, *Distinguished Lecturer Series*, Lucas Heights
2013 Invited Plenary Lecturer – *NZ Engineering & Physical Sciences in Medicine Annual Meeting*, Wellington
2013 Invited Plenary Lecturer – *Annual Scientific Meeting of Indonesian Nuclear Science Institute*, Jakarta
2013 Invited Plenary Lecturer – *Australian Nuclear Association Symposium*, Sydney
2013 Invited Plenary Lecturer – *ANZSNM NZ Branch Annual Symposium*, Palmerston North, NZ
2013 Invited Plenary Lecturer – *Academy of Technological Sciences & Engineering (ATSE) Symposium*, Sydney
2013 Continuing Education Lecture – *SNMMI Annual Scientific Meeting*, Vancouver, Canada
2013 Invited Lecturer – *2nd Tubingen PET/MRI Symposium*, Tubingen, Germany
2012 Invited Plenary Lecturer – *ANZSNM TSIG Annual Symposium*, Hervey Bay, QLD
2012 Invited Plenary Lecturer, *52nd Annual Scientific Meeting of Japanese Society of Nuclear Medicine*, Sapporo
2012 Continuing Education Lecture – *SNMMI Annual Scientific Meeting*, Miami, USA
2012 Invited Lecturer – *1st Tubingen PET/MRI Symposium*, Tubingen, Germany
2011 Invited Lecturer, *The Dr RD Lele Oration*, *Association of Nuclear Medicine Physicians of India Annual Meeting*, Hyderabad, India
2011 IAEA Mission to South America – Regional Training Course on Physics in Nuclear Medicine, Mendoza, Argentina
2011 Invited Plenary Lecturer, Siemens *First Biograph World Summit*, Munich, July
2009 IAEA Mission to Oman – member of two man Technical Co-operation Expert Mission to investigate the suitability of introducing PET scanning to the Sultanate of Oman. *IAEA Project number: OMA600302*
2009 IAEA Mission to South Africa – Regional (AFRA) Training Course on Image Processing, Reconstruction, Analysis and Quantification, Blomfontein
2009 Invited Plenary Speaker, *XXVe Colloque de l'Association des médecins specialists en médecin nucléaire du Quebec (AMSMNQ),* Gatineau-Ottowa, Canada
2006 Invited Plenary Lecturer, IPEM Meeting, London
2005 Invited Symposium Lecturer, European Association of Nuclear Medicine, Istanbul
2005 Invited Plenary Lecturer, ACPSEM Engineering & Physical Sciences in Medicine, Adelaide
2005 Invited Lecturer, Royal Marsden PET Course, Royal Marsden Hospital, Sutton, UK
2005 Invited Plenary Lecturer, 14th Congress of the International Society for Aerosols in Medicine
2005 Invited Plenary Lecturer, IPEM Meeting, London
2004 Invited Categorical Session Lecturer, *Society of Nuclear Medicine*, Philadelphia, USA
2003 Invited Plenary Lecturer, *13th Congress of the Intl Society for Aerosols in Medicine*, Hamilton, Canada
2002 Invited Plenary Lecturer, *Belgian Nuclear Medicine Society*, Brussels
2001 Independent Technical Advisor – Australian Commonwealth Government *Tender for PET Services*
2001 Invited Plenary Lecturer, *British Nuclear Cardiology Society*, Birmingham
2000 Invited Plenary Lecturer, *Scandinavian Congress on Nuclear Medicine & Physiology*, Aarhus
1991 Invited Plenary Lecturer, *31st Annual Scientific Meeting of Japanese Society of Nuclear Medicine*, Matsuyamah

GRANTS OBTAINED

2023 "Investigating baseline PET imaging to predict tumour doubling time and treatment response to SIRT" - Ramsay Research & Teaching Fund (NSLHD), $24,000 (Willowson KP, Bernard EJ, Maher R, Pavlakis N, Gofton C, **Bailey DL**)
2023 "Investigating the Tumour Microenvironment with PET Imaging – Introduction of a Novel Fibroblast Activation Protein Inhibitor (FAPI) Imaging Agent" – Ramsay Research & Teaching Fund (NSLHD),

$50,720 (**Bailey DL**, Yasmin L, Aslani A, Willowson KP, Roach PJ)

2022 "Radiotherapy patients - saving your breath with CT ventilation imaging" – NHMRC Development Grant $1,075,714 over 3 years (O'Brien R, Fouras A, Keall P, Jayamanne D, Harris, B, **Bailey DL**, Byrne H, Reynolds T)

2021 "I-124 PET Directed Redifferentiation Therapy for Radioiodine Refractory Thyroid Cancer: the I-FIRST Study" - Medical Research Future Fund (MRFF) $2,708,660 over 5 years (Scott AM, Robinson BG, Pattison D, Gilfillan C, Clifton-Bligh R, **Bailey DL**, Francis R, Barnes E, Soloman B, Mulhern B)

2020 "Defining the BED Dose-Response Relationship for Y-90 SIRT in Metastatic Liver Cancer" – Varian $204,010 over one year (**Bailey DL**)

2019 "Translational Cancer Research Centre – Two Year Grant Extension" - CINSW $2,795,112 (Engel A, **Bailey DL**, Clarke SJ, Boyle F, Gill AF, Dwight T, Lovell M, Molloy M, Eade T)

2019 "The BAYONET Study" – Accuracy of PET/CT [^{68}Ga]DOTATATE Imaging – Ipsen (Australia) $40,000 (**Bailey DL**)

2019 Educational Grant to employ a Registrar in Radiopharmaceutical Sciences ACPSEM: $180,000, ANSTO: $60,000, NSLHD: $60,000 over three years (**Bailey DL**, Apperly, MA)

2019 "PSMA as a prognostic indicator and therapeutic agent in men treated with enzalutamide - defining synergistic non-toxic pre-chemotherapy treatment combinations in metastatic castrate resistant prostate cancer. ENZA-p: An imaging, biomarker and therapy trial", Prostate Cancer Research Alliance (Movember Foundation) Project Grant: $4m over 3 years (Emmett, L, Joshua, A, Scott AM, Gedye C, Kneebone A, Guminski A, Stricker P, Swarbick A, **Bailey DL**, Jeraj R & Francis R)

2019 "Tumour-Selective Metal Chelators for Multiple Theranostic Applications", University of Sydney - Drug Discovery Initiative, $80,000 (Rendina LM, **Bailey DL**, Byrne H, Codd, R, Engel A, Francis B, Howell V, Kuncic, Z, Lay, P, Lengkeek N, McKelvey K, Rutledge P, Safavi-Naeini M)

2019 "Improving glioblastoma response to chemoradiation therapy", Cure Brain Cancer, $200,000 over 2 years (Scott AM, Francis R, Ebert M, **Bailey DL,** and Back MF)

2018 "Prospective, multicentre trial evaluating FET-PET in high grade glioma", Medical Research Future Fund (MRFF), $1,564,188 over 5 years (Scott AM, Nowak A, Francis R, Gan H, Hicks R, Fouroudi F, Koh E-S, Rosenthal M, Khasraw M, Ebert M, **Bailey DL,** and Back MF)

2018 "Development of a Real-Time Radiation Detector for Remote Monitoring of Radionuclide Therapy Patients" - Faculty of Medicine & Health Industry and Community Engagement Fund, University of Sydney; $19800 over one year (**Bailey DL** and Munoz-Ferrada C)

2018 "High versus low - what is the optimal pressure for compression garment prescribed to women with mild to moderately severe lymphoedema?: a pilot RCT", Sydney Vital Pilot Grant Scheme, $23977 (Kilbreath SL, Dylke E and **Bailey DL**)

2018 "Dual Gallium-68/FDG PET Imaging in Neuroendocrine Tumours" - NHMRC People Support (*APP1050670*) for Dr David Chan; $73,963 over 2 years (Chan DLH, Pavlakis N and **Bailey DL**)

2017 "Development of Quantification for Kidney and Tumour Dosimetry after Somatostatin Receptor ([^{177}Lu]DOTA-Octreotate – "Lutate") Administration" – Siemens Healthcare; $100,000 over 2 years (**Bailey DL** and Roach PJ)

2016 "Support for Sydney Vital NET dBase relating to research into the use of radionuclide therapies" - ANSTO Educational Research Grant; $25,000 per year for three years (**Bailey DL**)

2016 CINSW Research Equipment Grant: "*Translational Cancer Research Facility for Pre-clinical Image-guided Focal Radiotherapy*" (*2016/REG007*) – CINSW: $826,275 plus $275,425 from local funds (Howell V, Kuncic Z, Eade T, Pavlakis N, Wheeler H, Engel, A, Colvin E, **Bailey DL**, Stevenson W and Bromley R)

2015 "Support for Sydney Vital NET dBase relating to research into the use of radionuclide therapies" - ANSTO Educational Research Grant; $15,000 for one year (**Bailey DL**)

2014 Sydney Vital – the Northern Translational Cancer Research Centre. (Engel A, Marsh D, **Bailey DL**, Clarke SJ, Boyle F & Baxter R). Programme grant – Cancer Institute NSW; $5.8m over 5 years

2014 "CSI-Sydney: New technologies to treat chronic sinus infection" – *NHMRC Research Support Development Grant (APP1076217)*. $401708 over 2 years (Young PM, Traini D, King GG, **Bailey DL**, Whitchurch CB and Rohanizadeh R)

2014 "Do Human Pituitary Neoplasia Demonstrate an Increased Expression of Corticotropin Releasing Hormone Receptors?" – *AINSE Grant* (*ALNGRA14522*) $6500 (**Bailey DL**, Clifton-Bligh R and Callaghan P)

2011 "The role of imageable microspheres in radioembolisation treatment planning for Hepato-Cellular Carcinoma" – *Cancer Council NSW Research Innovator Grant* $100,000 plus $240,000 from Sirtex Medical (Willowson KP & **Bailey DL**)

2011 "A Phenomenological Approach to Improve Radioembolisation Treatment of Cancer" – *ARC Linkage Grant (LP110201109)* $714,500 over 3 years (**Bailey DL**, Jones SK, Baldock C, Kuncic Z)

2011 "Novel Invasive and Non-Invasive Methods for the Early Detection of Pulmonary Vascular Disease" – *NHMRC Project Grant (APP1022141)* $309,733 over 3 years (Celermajer D, Corte T, **Bailey DL**)

2010 "Developing a new method to improve the delivery and clinical outcomes of SIR-Spheres cancer treatment" -*Australian Govt "Enterprise Connect" Researchers in Business (RiB) Grant* $55,000 (**Bailey DL** & Willowson KP with SirTex Pty Ltd and School of Physics, University of Sydney)

2010 "MyLab 25 GOLD Ultrasound System with three (3) Probes" - *NHMRC Equipment Grant* $71,000

(Refshauge KM, Kilbreath S, Crosbie J, Brennan P, Ferreira P, Bailey D, Ryan E)

2010 "In-Vivo Multispectral Imaging FX System: small animal imaging for multi-modal molecular signal localisation in live animals" (10/REG/1-11)– *Cancer Institute NSW Equipment Grant* $250,000 (Marsh D, Baxter R, Ashton A, Howell V, Soon P, Little C, Robinson BG and **Bailey DL**)

2010 "Developing Cu-64 PET analogues for clinically approved Tc-99m SPECT agents" – AINSE Grant (ALNGRA11045) $8000 (**Bailey DL**, Smith S, Snowdon G and Aslani A)

2009 "Clinical correlates of lymphoedema". *Cancer Australia* $425,540 (with Kilbreath SL, Ward LC, Refshauge KM, Baldock C, Giuffre B, Lee MJ, Schembri GP, Beith J & Simpson JM)

2008 "The Development of Temporally Resolved Imaging of the Lung" - *NSAHS Research Grants Program* (2008-33) (with Dr Greg King) $40,000

2008 "Upgrading of SPECT/CT scanner to multi-detector CT capability" - *NSAHS Cancer Key Area Grant* (with Clin. Associate Professor Paul Roach), $50,000

2008 "Determination of the clinical correlates of lymphoedema: A pilot study". *National Breast Cancer Fund.* $118,424 (with Sharon Kilbreath (Discipline of Physiotherapy, University of Sydney), LC Ward, KM Refshauge *et al.*)

2004 "Development of a Combined SPECT/CT Scanner for Structure/Function Imaging" - *Northern Sydney Health Research Grants Program*, $A35,000

2004 "Development of a Combined SPECT/CT Scanner" – Research Infrastructure Block Grant Scheme, Northern Clinical School, University of Sydney, $15,000

2004 "Partial Financial Support of a CT Scanner for the Department of Nuclear Medicine " – Royal North Shore Hospital Staff Specialist Private Practice Trust Fund Grant (with Dr Paul Roach), $20,000

2004 "Upgrade of Novel SPECT/CT Scanner for Radiation Treatment Planning (RTP) and Respiratory Gating" – *NSW Cancer Institute Grant-in-Aid* (with Dr Paul Roach), $19,187

2004 "New Imaging Instrumentation and Algorithms for the Simultaneous Measurement of Multiple Radio-labelled Probes *in vivo" Australian Research Council Discovery Grant* (DP0666239) (with A/Professor Steve Meikle and Professor Richard Banati), $526,753 over 3 years

2004 "Lung function tests to predict radiation lung injury and guide the design of radiotherapy for radical treatment of lung cancer*" NSW Cancer Institute Research Foundation Grant* (with A/Professor Jenny Cox) $27,090

2003 "Purchase of a Transmission Source for Quantitative *In Vivo* SPECT" – *Research Infrastructure Block Grant Scheme*, Northern Clinical School, University of Sydney, $A4713

1992 "Assessment of new interventions on mucociliary clearance in cystic fibrosis" - *National Health & Medical Research Council* (Australia), $A140,000 over 3 years

1991 "Quantitative single photon emission computed tomography of the myocardium: clinical implementation" - *National Health & Medical Research Council* (Australia), $A100,000 over 3 years

EDUCATIONAL

Teaching

2018	Lecturer (Physics): *IAEA Regional Training Course on PET Physics & Quality Control,* Riyadh, Saudi Arabia
2015	Lecturer: Workshop on Internal Dosimetry Assessment in Nuclear Medicine (BATAN), Bandung, Indonesia
2011	Lecturer (Physics): *IAEA Regional (ARCAL) Training Course on Nuclear Medicine Physics,* Mendoza, ARG
2010-present	Professor in Medical Radiation Sciences, Faculty of Health Science, University of Sydney
2009	Lecturer (Physics): IAEA Regional (AFRA) Training Course on Image Processing, Reconstruction, Analysis and Quantification, Blomfontein, RSA
2008-2016	Lecturer (Physics): PET and SPECT with CT course, RIAP/NIF, University of Sydney
2008-2016	Lecturer (Physics): Foundations of PET/CT course, RIAP/NIF, University of Sydney
2006-2009	Associate Professor in Medical Radiation Sciences, Faculty of Health Science, University of Sydney
2003-2020	Lecturer (SPECT & PET): ANZAPNM/AANMS Basic Sciences Course for Advanced Medical Trainees
2003-2005	Senior Lecturer in Physics, School of Medical Radiation Sciences, University of Sydney (Part-time)
2002	Course Co-Ordinator & Principal Lecturer, *"Update in Nuclear Medicine"*, King Faisal Specialist Hospital & Research Centre, Riyadh, Kingdom of Saudi Arabia, (May)
2001	Course Organiser and Lecturer – *Principles & Recent Advances in Emission Computed Tomography*, IEEE Nuclear Science Symposium Short Course, San Diego, USA
2000	Course Organiser and Lecturer – *PET: State of the Art,* IEEE Nuclear Science Symposium Short Course, Lyon, France
1997-2002	Lecturer – Physics, Instrumentation, SPECT & PET topics for various courses offered by Kings' College London, GKT School of Medicine and Biomedical Sciences and South Bank University (London)
1994	Lecturer - Theoretical and Practical Aspects of Image Reconstruction for Volume PET Scanners, IEEE Nuclear Science Symposium Short Course, Norfolk, Virginia, USA Lecturer (Physics & Instrumentation) - Isotopes in Medicine, Australian Nuclear Science & Technology Organisation (ANSTO)
1985-1994	Lecturer (Physics & Instrumentation) -The Use of Computers in Nuclear Medicine and Radiopharmaceuticals in Medicine courses for the International Atomic Energy Agency (IAEA) Lecturer (Physics & Reconstruction Theory) - RPAH SPECT Course, vocational training course at Royal Prince Alfred Hospital

	Lecturer (Reconstruction Theory) - Training Course for Registrars, for Royal Australian College of Radiologists
1988	Lecturer (Physics & Instrumentation) - National Course on the Applications of Nuclear Techniques in Medicine, Bandung, Indonesia, for the Australian Development Assistance Board
1985-1987	Lecturer - Nucleonics I & II - Assoc Dip Nucl Med Tech, Sydney Technical College

Student Supervision

2018-2022	Harry Marquis, School of Physics, University of Sydney, *PhD*, Thesis title (provisional): *"Development of a Dosimetry Platform for Theranostic Agents"*
2018-	Takinori Hioki, Faculty of Science University of Sydney, *PhD*, Thesis title (provisional): *"Radiobiology in the Improvement of Radiopharmaceutical Design"*
2018	Monika Mikhail, School of Physics, University of Sydney *MMedPhys*, Thesis title: *"Density-Corrected Whole Body PET Scanning"*
2016-2019	HyunJu Ryu, Faculty of Health Sciences, University of Sydney, *PhD*, Thesis title: *"Quantification for Imaging and Dosimetry with Lutetium-177"* (INCOMPLETE)
2016	Eric Courtney Henry, School of Physics, University of Sydney *MMedPhys*, Thesis title: *"Measuring Total Body Disease Burden on PET/CT"*
2015-2020	David Chan, Sydney Medical School, *PhD*, Thesis title: "*Determining Prognosis in Neuroendocrine Tumours"*
2015-2017	Susan Macalpine: School of Physics, University of Sydney *MMedPhys*, Thesis title: *"Radiation Exposure of Hospital Staff during Nuclear Medicine Therapies"*
2015	Thomas Hennessy: School of Physics, University of Sydney *MMedPhys*, Thesis title: "*Characterisation of Biodistribution and Radiation Dosimetry in no carrier-added [^{177}Lu]-DOTATATE radionuclide therapy*"
2015-2019	Michael Back, Sydney Medical School, *PhD*, Thesis title: "*Improving the Outcomes of Radiation Therapy in the Management of Anaplastic Oligodengroglial Tumours*"
2013-2016	Cecelia de Gzell, Sydney Medical School, *PhD*, Thesis title: "*Optimising outcomes in high grade gliomas (HGGs) using innovative radiotherapy protocols*"
2013	Kimberley Schuurman: *MBiomedEng* (University of Twente, The Netherlands) Project title: "*A More Accurate Method for Estimating Dosimetry of Radionuclides?*"
2013-inc.	Nicholas Forwood: Faculty of Health Sciences, University of Sydney, *PhD*, Thesis title (provisional): *"In Vivo and in Vitro Quantification of Yttrium-90 for Radionuclide Therapy and Dosimetry"*
2012	Jeroen Mollink: *MBiomedEng* (University of Twente, The Netherlands) Project title: "*Implementing SPM for Single Scan FDG Analysis*"
2012	Jonathan Yeow: Sydney Medical School Summer Student. Project title: "*Assessment of Clearance of Fluorodeoxyglucose from Normal Cortex in Patients with Brain Cancer on Dual Time Point PET Imaging*"
2011	David Prabakhar: School of Physics, University of Sydney, *BSc(Hons)* Report title: *"Quantification of Pulmonary Embolism from SPECT Ventilation/Perfusion Scans"*
2011	Chun-Chien (Andy) Shieh: School of Physics, University of Sydney, *BSc(Hons)* Report title: *"A Next Generation SPECT Camera Implementing Photon Polarization"*
2011	Edgar Wakelin: School of Physics & Faculty of Engineering, University of Sydney, *BE/BSc(Hons)* Summer Scholar: *"Development of Analysis Tools to Determine Lymphatic Flow Rate in the Limbs"*
2011	Sanne Slegers, *MBiomedEng* (University of Twente, The Netherlands) Project title: "*Detection and Identification of the Location of Sentinel Lymph Nodes in SPECT"*
2011	Tumelo Moalisi: vocational training fellow in physics from South Africa, IAEA (3 months)
2009-2018	Cathryn Farrow, Sydney Medical School, *PhD*, Thesis title: "*Assessment of Lung Heterogeneity in Bronchoconstriction*"
2009	Jason Ting: Sydney Medical School, "*SMTP3007 Report: Temporal Pertechnetate Uptake Patterns of the Thyroid*"
2009	Kamogetswe Boom: Vocational Training Fellow in Physics from South Africa, IAEA (6 months)
2009-2014	Elizabeth Bailey: Faculty of Health Sciences, University of Sydney, *PhD*, Thesis title: *"Implementation and Evaluation of Methodology to Study Myocardial Function Parameters using SPECT/CT in an Ovine Model of Acute Myocardial Infarction – Response to Mesenchymal Stem Cell Transplantation"*
2007	Kelly Braun, Institute of Medical Physics, University of Sydney, *MMedPhys*, Thesis title: *Use of polymer gels for radionuclide dosimetry*
2006-2009	Kathy Willowson, Institute of Medical Physics, School of Physics, University of Sydney, PhD, Thesis title: "CT-based Quantitative SPECT"
2005-2007	Benjamin Harris MB BS BSc(Med) FRACP, Faculty of Medicine, University of Sydney, PhD, thesis title: "Objective Analysis of Single Photon Emission Computed Tomography (SPECT) Ventilation/Perfusion Scintigraphy In Pulmonary Embolism and Other Pulmonary Disorders"
2005	Saxby Brown, Institute of Medical Physics, School of Physics, University of Sydney, MMedPhys thesis, Thesis title: "an Investigation of the Relationship between Linear Attenuation Coefficients and CT Hounsfield Units
2004-2012	Daryl Gibson, School of Physics, University of Sydney, MSc, Thesis title: "Individualised Dosimetry for [131I]-Lipiodol and [90Y]-SirSpheres using RMDP"
2004	Jessica Witherow, School of Medical Radiation Sciences, University of Sydney, BAppSc Honours project, Report title: "Pilot Evaluation of the 'AKITA' Nebuliser as a Radioaerosol Delivery Device for Lung ventilation/perfusion (V/Q) scans"
2002	Michael DR Thomas BE PhD, Department of Medical Physics, University of Surrey, MSc Thesis title: "A Dual Modality Approach To Quantitative Quality Control In Emission Tomography"

2001 Pamela Ocampo, Department of Medical Physics, University of Surrey, MSc Thesis title: “Measurement of Left Ventricular Ejection Fraction from Gated Blood Pool SPECT”

2001-2005 Antonis Kalemis, Joint Department of Physics, Institute of Cancer Research (ICR) and Royal Marsden Hospital, PhD, Thesis title: “Signal Detection in Multi-Modality Medical Imaging; Comparison of Different Conditions Using Voxelwise Statistical Techniques”

1996-2002 Eleftherios Livieratos, Department of Physics, University of Surrey, PhD Thesis title: “Improvements in Quantification of High Resolution Cardiac 3D Positron Emission Tomography”

1995-2000 Matthew Miller, Department of Physics, University of Surrey, PhD Thesis title: "Strategies to increase the signal to noise ratio in three-dimensional Positron Emission Tomography"

1997 Stephen Morrisey, Department of Medical Physics, University of Surrey, MSc Thesis title: “Investigations into scatter in single photon transmission measurements using the Monte Carlo simulation package, SimSET”

1997 Mark Atthey, Department of Medical Physics, University of Surrey, MSc Thesis title: “Assessment of Tissue Segmentation and Classification from 3D PET Transmission Data”

1996 Stelios Choulis, Department of Medical Physics, University of Surrey, MSc Thesis title: “Investigation of the Limits of Detectability for In Vivo PET Studies with a New High Sensitivity Tomograph”

1995 Eleftherios Livieratos, Department of Medical Physics, University of Surrey, MSc Thesis title: “Optimisation of Performance Parameters for a New Rotating PET Scanner”

1994 Panos Anastasopoulos, Department of Medical Physics, University of Surrey, MSc Thesis title: “An Analysis of Noise Propagation in 2D and 3D PET Reconstructions”

1993 Kevin Ho-Shon, Department of Medicine, University of Sydney, BSc (Med) Thesis title: “Quantification of Bone Sarcoma Response to Therapy using 201Tl“

1993 Cassandra Tomlinson, Department of Computing Science, University of Sydney, BSc (Hons) . Thesis title: “Quantitative Analysis of Mucociliary Clearance in the Human Lung”

1992 Nicholas McGilvray, Department of Computing Science, University of Sydney, BSc (Hons) Thesis title: “Computer Visualisation of Human Local Cerebral Blood Flow”

TEAP Supervision (ACPSEM)

2016 Nicholas Forwood (Nuclear Medicine Physics - R00YY)

2015 Kathy Willowson (Nuclear Medicine Physics - R00274)

LOCAL, NATIONAL and INTERNATIONAL MEETING INVOLVEMENT

2018 Co-Scientific Convenor & Host President: 12th Congress of World Federation of Nuclear Medicine & Biology, Melbourne, April 20-24

2014 Convenor, ANZSNM/ACPSEM Physics SIG Workshop (1 day), “*Looking Backwards to Tomorrow*”, University of Sydney

2013 Convenor, ANZSNM/ACPSEM Physics SIG Workshop (1 day), “*PET/MRI for Beginners*”, University of Sydney

2011 Co-Convenor, ANZSNM Annual Scientific Meeting, Darwin, July

2009 Member, Scientific Organising Committee, Astromed09, University of Sydney, December

2007 Organiser of one day symposium on *Monte Carlo Simulation in GATE* (Institute of Medical Physics, University of Sydney)

2006 Convenor, ANZSNM/ACPSEM Physics SIG Workshop, “*Introducing CT into Nuclear Medicine*”, University of Sydney, Dec

2004-2006 Member, Scientific Research Meeting Organising Committee, Royal North Shore Research Committee

2002 Convenor, ANZSNM/ACPSEM Physics SIG Workshop, “*Advances in SPECT*”, University of Sydney, December

2001 Track Chairman (Physics): European Association of Nuclear Medicine (Naples, Italy)

2001 Organiser of one day symposium on *Quantitative Measurements with Gamma Cameras* (Sponsored by ADAC/Philips) (Guy’s & St Thomas’ Hospital, London, UK)

2001 International Scientific Committee member, 6th International Meeting on Fully Three-Dimensional Image Reconstruction in Radiology and Nuclear Medicine (Monterey, CA, USA)

1999 International Scientific Committee member, 5th International Meeting on Fully Three-Dimensional Image Reconstruction in Radiology and Nuclear Medicine (Egmond-aan-Zee, Netherlands)

1997 International Scientific Committee member, 4th International Meeting on Fully Three-Dimensional Image Reconstruction in Radiology and Nuclear Medicine (Pittsburgh, PA, USA)

1996-2002 Co-Chair, UK PET Special Interest Group; 4 meetings per year in Central London

1995 Local and Scientific Organising Committee member, Editor of Proceedings, Brain PET ’95 (Oxford, UK)

1994 Track Chair (Physics): Pre-Congress Symposium of World Federation of Nuclear Medicine and Biology (Cairns, AUS)

1993 International Scientific Committee member, 2nd International Meeting on Fully Three-Dimensional Image Reconstruction in Radiology and Nuclear Medicine (Snowbird, Utah, USA)

MEDIA CONTRIBUTIONS

Conceived, obtained funding ($20k) and produced video “**A Day in the Life of Australian Nuclear Medicine**” on behalf of ANZSNM & ANSTO, April 2018

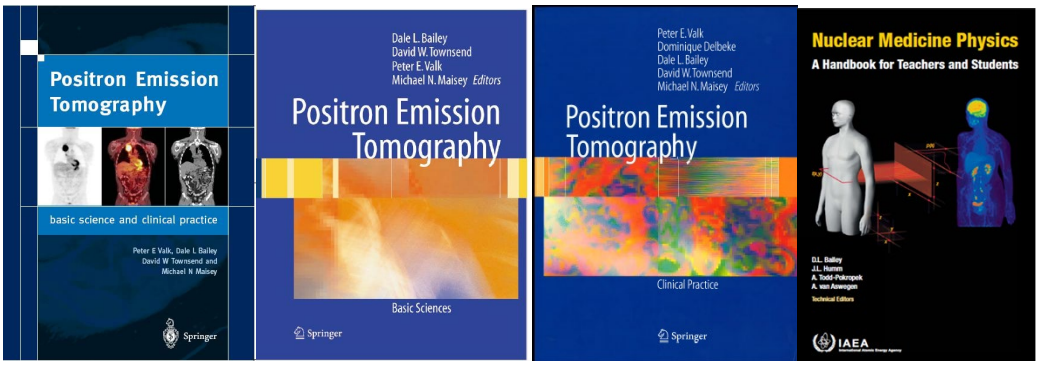
Talking Science with Dr Karl, 30/03/2011, ABC Radio JJJ and regional stations

Catalyst, ABC TV, 05/06/2008: "*Meet Dale Bailey*" – feature on physics/nuclear medicine and relationship to creativity and problem-solving (see http://www.abc.net.au/catalyst/stories/2266157.htm)
OpEd, **Sydney Morning Herald**, 21/11/2006: "*Change the fuel for a happier reaction*" - opinion piece on thorium-based nuclear power generation

PUBLICATIONS

BOOKS, BOOK CHAPTERS

1 **Bailey DL**. Theranostics Today: Looking Backwards to Tomorrow. In: Borrás C, Stabin M, eds. Radiotheranostics: A Primer for Medical Physicists 1. Boca Raton Lopndon New York: Taylor & Francis:198-207 (2024)
2 **Bailey DL**, Humm JL. Physics of Nuclear Oncology. In: Vollterrani D, Erba P, Strauss HW, Mariani G, Lasrson SM, eds. Nuclear Oncology: From Pathophysiology to Clinical Applications. 3rd ed. New York: Springer:245-261 (2022)
3 **Bailey DL**, Humm JL. Physics of Nuclear Oncology. In: Volterrani D, Erba PA, Strauss HW, Mariani G, Larson SM, eds. Nuclear Oncology: From Pathophysiology to Clinical Applications. Cham: Springer International Publishing:1-17 (2021)
4 **Bailey DL**, Humm JL, Todd-Pokropek A, van Aswegen A. Nuclear Medicine Physics: A Handbook for Teachers and Students. Vienna: IAEA 727 (2014)
5 **Bailey DL**, Willowson KP. Physics and Technology of SPECT/CT. In: Ahmadzadehfar H, Biersack H-J, eds. Clinical Applications of SPECT-CT. Berlin Heidelberg: Springer (2014)
6 **Bailey DL**, Humm JL. Physics of Nuclear Oncology. In: Strauss HW, Mariani G, eds. Nuclear Oncology: Pathophysiology and Clinical Applications. 1st ed. New York: Springer:79-92 (2013)
7 **Bailey DL**. Basics of nuclear medicine imaging (online at http://hstalks.com/?t=BL1032469-Bailey). In: Townsend DW, ed. Medical Imaging: Imaging Techniques for Pre-clinical and Clinical Applications. London: Henry Stewart Talks Ltd (2010)
8 Valk PE, Delbeke D, **Bailey DL**, Townsend DW, Maisey MN. Positron Emission Tomography: Clinical Practice. London: Springer-Verlag:482 (2006)
9 **Bailey DL**, Townsend DW, Valk PE, Maisey MN. Positron Emission Tomography: Basic Science. London: Springer-Verlag:382 (2005)
10 **Bailey DL**. Attenuation Correction in PET and SPECT. In: Maisey M, Britten K, Cook G, Chengazi V, eds. Clinical Nuclear Medicine. 4 ed. London: Hodder Arnold:869-879 (2006)
11 Valk PE, **Bailey DL**, Townsend DW, Maisey MN. Positron Emission Tomography: Basic Science & Clinical Practice. London: Springer-Verlag:884 (2003)
12 **Bailey DL**. Spatial Inaccuracies in Emission Tomography. In: Hajnel J, Hill DLJ, Hawkes DJ, eds. Medical Image Registration 97-103. London: CRC Press (2001)
13 **Bailey DL**. Image Registration in Nuclear Medicine. In: Hajnel J, Hill DLJ, Hawkes DJ, eds. Medical Image Registration. London: CRC Press:233-252 (2001)
14 **Bailey DL**, Parker JA. Single photon emission computed tomography. In: Murray IPC, Ell PJ, eds. Nuclear Medicine in Clinical Diagnosis and Treatment 2. 2nd ed. London: Churchill Livingstone:1589-1601 (1998)
15 **Bailey DL**. Quantitative Procedures in 3D PET. In: Bendriem B, Townsend DW, eds. The Theory and Practice of 3D PET. Dordrecht: Kluwer Academic:55-109 (1998)
16 Robinson M, Hemming A, Regnis JA, Bye PTP, Bautovich GJ, **Bailey DL**, King M, Feng W. Improved Mucociliary Clearance Following Nebulization with Hypertonic Saline in Adults with Cystic Fibrosis. In: Baum GL, Priel Z, Roth Y, Liron N, Ostfeld E, eds. Cilia, Mucus, and Mucociliary Interactions. New York: Marcell Dekker, Inc.:265-280 (1998)
17 **Bailey DL**. Recent Trends in PET Camera Designs. In: Gulyás B, Müller-Gärtner HW, eds. Positron Emission Tomography: A Critical Assessment of Recent Trends 3/51. Debrecen, Hungary: Kluwer:45-56 (1998)
18 Rakshi JS, **Bailey DL**, Morrish PK, Miller MP, Brooks DJ. 3D 18F-Fluorodopa PET: Improved Kinetics and Discrimination in Parkinson's Disease. In: Townsend DW, Bendriem B, eds. The Theory and Practice of 3D PET. The Netherlands: Kluwer Academic:150-154 (1998)
15 **Bailey DL**. Quantitative Procedures in 3D PET. In: Bendriem B, Townsend DW, eds. The Theory and Practice of 3D PET. Dordrecht: Kluwer Academic:55-109 (1998)
19 Myers R, Cunningham VJ, **Bailey DL**, Jones T. Quantification of Brain Function with PET. 1. 1st ed. San Diego: Academic Press (1996)
20 **Bailey DL**, Parker JA. Single Photon Emission Computed Tomography. In: Murray IPC, Ell PJ, eds. Nuclear Medicine in Clinical Diagnosis and Treatment 2. Edinburgh: Churchill-Livingstone:1315-1326 (1995)



JOURNAL ARTICLES

PUBLICATIONS

2024

1 De Silva MK, Chan DLH, Bernard EJ, Conner AJ, Mascall SL, **Bailey DL**, Roach PJ, Clarke SJ, Diakos CI, Pavlakis N, Schembri G. Metabolic Tumor Volume on 18-Fluorodeoxyglucose Positron Emission Tomography as a Prognostic Marker of Survival in Patients With Locally Advanced or Metastatic Neuroendocrine Neoplasms Treated With ^{177}Lutetium-DOTA-Octreotate Peptide Receptor Radionuclide Therapy. *Pancreas* 53:e560-e565 (2024)

2 **Bailey DL**, Schembri GP, Willowson KP, Roach PJ. Letter to the Editor: FDG Liver Biodistribution. *Eur J Nucl Med Mol Imaging* (2024)

3 Chan DL, Hayes AR, Karfis I, Conner A, Mileva M, Bernard E, Schembri G, Navalkissoor S, Gnanasegaran G, Pavlakis N, Marin C, Vanderlinden B, Flamen P, Roach P, Caplin ME, Toumpanakis C, **Bailey DL**. [^{18}F]FDG PET/CT–Avid Discordant Volume as a Biomarker in Patients with Gastroenteropancreatic Neuroendocrine Neoplasms: A Multicenter Study. *J Nucl Med* 65:185-191 (2024)

2023

4 Brighi C, Waddington DEJ, Keall PJ, Booth J, O'Brien K, Silvester S, Parkinson J, Mueller M, Yim J, **Bailey DL**, Back M, Drummond J. The MANGO study: a prospective investigation of oxygen enhanced and blood-oxygen level dependent MRI as imaging biomarkers of hypoxia in glioblastoma. *Frontiers in Oncology* 13 (2023)

5 Barry N, Francis RJ, Ebert MA, Koh E-S, Rowshanfarzad P, Hassan GM, Kendrick J, Gan HK, Lee ST, Lau E, Moffat BA, Fitt G, Moore A, Thomas P, Pattison DA, Akhurst T, Alipour R, Thomas EL, Hsiao E, Schembri GP, Lin P, Ly T, Yap J, Kirkwood I, Vallat W, Khan S, Krishna D, Ngai S, Yu C, Beuzeville S, Yeow TC, **Bailey DL**, Cook O, Whitehead A, Dykyj R, Rossi A, Grose A, Scott AM. Delineation and agreement of FET PET biological volumes in glioblastoma: results of the nuclear medicine credentialing program from the prospective, multi-centre trial evaluating FET PET In Glioblastoma (FIG) study—TROG 18.06. *European Journal of Nuclear Medicine and Molecular Imaging* (2023)

6 Koh E-S, Gan HK, Senko C, Francis RJ, Ebert M, Lee ST, Lau E, Khasraw M, Nowak AK, **Bailey DL**, Moffat BA, Fitt G, Hicks RJ, Coffey R, Verhaak R, Walsh KM, Barnes EH, Lourenco RDA, Rosenthal M, Adda L, Foroudi F, Lasocki A, Moore A, Thomas PA, Roach P, Back M, Leonard R, Scott AM. [^{18}F]-fluoroethyl-L-tyrosine (FET) in glioblastoma (FIG) TROG 18.06 study: protocol for a prospective, multicentre PET/CT trial. *BMJ Open* 13:e071327 (2023)

7 Marquis H, Willowson KP, Schmidtlein CR, **Bailey DL**. Investigation and optimization of PET-guided SPECT reconstructions for improved radionuclide therapy dosimetry estimates. *Front Nucl Med* 3 (2023)

8 Gordon S, Chan DLH, Bernard EJ, Eslick ME, Willowson KP, Roach PJ, Engel AF, Maher R, Clarke SJ, Agarwal V, Yasmin L, De Silva M, Mascall S, Conner A, Nevell D, Pavlakis N, **Bailey DL**. Single-centre experience with peptide receptor radionuclide therapy for neuroendocrine tumours (NETs): results using a theranostic molecular imaging-guided approach. *J Cancer Res Clin Onco* (2023)

9 Currie GM, **Bailey DL**. V/Q SPECT and SPECT/CT in Pulmonary Embolism. *J Nucl Med Technol*:jnmt.122.264880 (2023)

10 **Bailey DL**, Willowson KP, Harris M, Biggin C, Aslani A, Lengkeek NA, Stoner J, Eslick ME, Marquis H, Parker M, Roach PJ, Schembri GP. ^{64}Cu Treatment Planning and ^{67}Cu Therapy with Radiolabelled SARTATE (^{64}Cu/^{67}Cu]MeCOSAR-Octreotate) in Subjects with Unresectable Multifocal Meningioma – Initial Results for Human Imaging, Safety, Biodistribution and Radiation Dosimetry. *J Nucl Med* 64:704-710 (2023)

11 Kartamihardja HS, **Bailey DL**. In Memoriam: Johan S. Masjhur, dr, SpPD-KEMD, SpKN-TM, 1942–2023. *J Nucl Med* 64:1669-1669 (2023)

12 **Bailey DL**, Willowson KP, Muñoz-Ferrada C. A Practical Method for Assessing Quantitative Scanner Accuracy with Long-Lived Radionuclides: The ARTnet Insert. *Asia Oceania J Nucl Med Biol* 12 (2024)

13 **Bailey DL**. Letter to the Editor: Radiopharmaceutical Extravasations Can Have Consequences. *J Nucl Med* 64:1324-1324 (2023)

14 **Bailey DL**. Letter to the Editor: Not All Gatekeepers Are Theranostics. *J Nucl Med* 64:1662 (2023)

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15 Francia DL, Willowson KP, **Bailey DL**. An Unusual Cause of γ-Camera Contamination. *J Nucl Med Technol* 50:381-383 (2022)

16 Chan DL, Hayes AR, Karfis I, Conner A, Furtado O'Mahony L, Mileva M, Bernard E, Roach P, Marin G, Pavlakis N, Schembri G, Gnanasegaran G, Marin C, Vanderlinden B, Navalkissoor S, Caplin ME, Flamen P, Toumpanakis C, **Bailey DL**. Dual [68Ga]DOTATATE and [18F]FDG PET/CT in patients with metastatic gastroenteropancreatic neuroendocrine neoplasms: a multicentre validation of the NETPET score. *Brit J Cancer* (2022)

17 Currie H, Lough C, Currie G, Bushong S, **Bailey DL**. Practical learning through radiation physics problem solving. *Radiography* 28:981-990 (2022)

18 **Bailey DL**, Scott AM. John G. Morris, AO, MBBS (1934–2022). *J Nucl Med* 63:14N-14N (2022)

19 Gholami YH, Willowson KP, **Bailey DL**. Towards personalised dosimetry in patients with liver malignancy treated with 90Y-SIRT using in vivo-driven radiobiological parameters. *EJNMMI Physics* 9:49 (2022)

20 Chan DL, Roach PJ, **Bailey DL**. Letter to Editor Re: "Combined Quantification of 18F-FDG and 68Ga-DOTATATE PET/CT for Prognosis in High-Grade Gastroenteropancreatic Neuroendocrine Neoplasms" (https://doi.org/10.1016/j.acra.2021.10.004). *Acad Radiol*.

2022/02/28 ed (2022)
21 Lee ST, Emmett LM, Pattison DA, Hofman MS, **Bailey DL**, Latter M, Francis RJ, Scott A. The Importance of Training, Accreditation and Guidelines for The Practice of Theranostics: The Australian Perspective. *J Nucl Med*. 2022/04/09 ed (2022)
22 Marquis H, Willowson KP, **Bailey DL**. Partial Volume Effect in SPECT & PET Imaging and Impact on Radionuclide Dosimetry Estimates. *Asia Oceania J Nucl Med Biol* 11 (2022)

2021
23 Willowson KP, Eslick EM, **Bailey DL**. Individualised dosimetry and safety of SIRT for intrahepatic cholangiocarcinoma. *Eur J Nucl Med Mol Imag Physics* 8:65 (2021)
24 Fearn NR, Dylke ES, **Bailey DL**, Kilbreath SL. Lymphoscintigraphy as an Outcome Measurement for Conservative Upper Limb Lymphedema Treatments: A Systematic Review. *Lymphat Res Biol*. 2021/11/09 ed (2021)
25 Chan DL, Ulaner GA, Pattison DA, Wyld D, Ladwa R, Kirchner J, Li BT, Lai WV, Pavlakis N, Roach PJ, **Bailey DL**. Dual Positron Emission Tomography imaging in bronchial neuroendocrine neoplasms (NENs): The NETPET score as a prognostic biomarker. *J Nucl Med*:jnumed.120.257659-undefined (2021)
26 Sabanathan D, Campbell DH, Velonas VM, Wissmueller S, Mazure H, Trifunovic M, Poursoltan P, Ho-Shon K, Mackay TR, Lund ME, Lu Y, Roach PJ, **Bailey DL**, Walsh BJ, Gillatt D, Gurney H. Safety and tolerability of Miltuximab: a first in human study in patients with advanced solid cancers. *Asia Oceania J Nucl Med Biol* 9:86-100 (2021)
27 Chan DL, Clarke SJ, Engel A, Diakos CI, Pavlakis N, Roach PJ, **Bailey DL**, Bauer J, Findlay M. Computed tomography (CT)-defined sarcopenia and myosteatosis are prevalent in patients with neuroendocrine neoplasms (NENs) treated with peptide receptor radionuclide therapy (PRRT). *Eur J Clin Nutr*. 2021/05/15 ed (2021)
28 Beyer T, **Bailey DL**, Birk UJ, Buvat I, Catana C, Cheng Z, Fang Q, Giove F, Kuntner C, Laistler E, Moscato F, Nekolla SG, Rausch I, Ronen I, Saarakkala S, Thielemans K, van Elmpt W, Moser E. Medical Physics and Imaging–A Timely Perspective. *Frontiers in Physics* 9 (2021)
29 Francis RJ, **Bailey DL**, Hofman MS, Scott AM. The Australasian Radiopharmaceutical Trials Network (ARTnet) - Clinical Trials, Evidence and Opportunity. *J Nucl Med* 62. 2021/01/02 ed:755-756 (2020)
30 Meikle SR, Sossi V, Roncali E, Cherry SR, Banati R, Mankoff D, Jones T, James M, Sutcliffe J, Ouyang J, Petibon Y, Ma C, El Fakhri G, Surti S, Karp JS, Badawi RD, Yamaya T, Akamatsu G, Schramm G, Rezaei A, Nuyts J, Fulton R, Kyme A, Lois C, Sari H, Price J, Boellaard R, Jeraj R, **Bailey DL**, Eslick E, Willowson KP, Dutta J. Quantitative PET in the 2020s: a roadmap. *Physics in Medicine & Biology* 66: IOP Publishing:06RM01 (2021)
31 Marquis H, Deidda D, Gillman A, Willowson KP, Gholami Y, Hioki T, Eslick E, Thielemans K, **Bailey DL**. Theranostic SPECT reconstruction for improved resolution: application to radionuclide therapy dosimetry. *Eur J Nucl Med Mol Imag Physics* 8:16 (2021)
32 Hioki T, Gholami YH, McKelvey KJ, Aslani A, Marquis H, Eslick ME, Willowson KP, Howell VM, **Bailey DL**. Overlooked potential of positrons in cancer therapy. *Sci Rep* 11. 2021/01/30 ed:2475 (2021)
33 **Bailey DL**, Sabanathan D, Aslani A, Campbell DH, Walsh B, Lengkeek NA. RetroSPECT: Gallium-67 as a Long-Lived Imaging Agent for Theranostics. *Asia Oceania J Nucl Med Biol* 9:1-8 (2021)
34 Currie GM, **Bailey DL**. A Technical Overview of Technegas as a Lung Ventilation Agent. *Journal of Nuclear Medicine Technology*:jnmt.121.262887 (2021)

2020
35 **Bailey DL**, Philips W, Baldock C. Topical Debate: The future of radiotherapy is molecular. *Phys Eng Sci Med* 43. 2020/08/18 ed:755-759 (2020)
36 Willowson KP, Schembri GP, Bernard EJ, Chan DL, **Bailey DL**. Quantifying the effects of absorbed dose from radioembolisation on healthy liver function with [(99m)Tc]TcMebrofenin. *Eur J Nucl Med Mol Imag* 47. 2020/01/21 ed:838-848 (2020)
37 **Bailey DL**, Roach PJ. A Brief History of Lung Ventilation and Perfusion Imaging Over the 50-Year Tenure of the Editors of Seminars in Nuclear Medicine. *Semin Nucl Med* 50. 2019/12/18 ed:75-86 (2020)
38 Rutting S, Mahadev S, Tonga KO, **Bailey DL**, Dame Carroll JR, Farrow CE, Thamrin C, Chapman DG, King GG. Obesity alters the topographical distribution of ventilation and the regional response to bronchoconstriction. *J Appl Physiol (1985)* 128. 2019/11/22 ed:168-177 (2020)
39 Chan DL, Hoang J, Roach PJ, Arena J, **Bailey DL**, Nevell D, Pavlakis N, Engel A, Bernard EJ. Routine Early 68Ga-DOTATATE Positron Emission Tomography Has Low Yield After Resection of Appendiceal Neuroendocrine Neoplasms. *Pancreas* 49. 2020/07/14 ed:891-896 (2020)
40 Lim LE, Chan DL, Thomas D, Du Y, Tincknell G, Kuchel A, Davis A, **Bailey DL**, Pavlakis N, Cehic G, Macdonald W, Wyld D, Segelov E. Australian experience of peptide receptor radionuclide therapy in lung neuroendocrine tumours. *Oncotarget* 11. 2020/07/18 ed:2636-2646 (2020)
41 Chan DL, Bernard EJ, Schembri G, Roach PJ, Johnson M, Pavlakis N, Clarke S, **Bailey DL**. High Metabolic Tumour Volume on 18-Fluorodeoxyglucose Positron Emission Tomography Predicts Poor Survival from Neuroendocrine Neoplasms. *Neuroendocrinology* 110. 2019/11/12 ed:950-958 (2020)

2019
42 **Bailey DL**, Farrow CE, Lau EM. V/Q SPECT-Normal Values for Lobar Function and Comparison with CT Volumes. *Semin Nucl Med* 49. 2018/12/14 ed:58-61 (2019)
43 **Bailey DL**, Roach PJ. Letter From the Guest Editors. *Semin Nucl Med* 49. 2018/12/14 ed:2-3 (2019)
44 Sammel AM, Hsiao E, Schembri G, Nguyen K, Brewer J, Schrieber L, Janssen B, Youssef P, Fraser CL, Bailey E, **Bailey DL**, Roach P, Laurent R. Diagnostic Accuracy of PET/CT Scan of the Head, Neck and Chest for Giant Cell Arteritis: The Double-Blinded Giant Cell Arteritis and PET Scan (GAPS) Study. *Arthritis Rheumatol* 71. 2019/03/09 ed:1319-1328 (2019)
45 Back M, Jayamanne D, Brazier D, **Bailey DL**, Hsiao E, Guo L, Wheeler H. Tumour volume reduction following PET guided intensity modulated radiation therapy and temozolomide in IDH mutated anaplastic glioma. *J Clin Neurosci* 59. 2018/11/18 ed:68-74 (2019)
46 Back M, Jayamanne DT, Brazier D, Newey A, **Bailey DL**, Schembri GP, Hsiao E, Khasraw M, Wong M, Kastelan M, Guo L, Clarke SJ, Wheeler H. Influence of molecular classification in anaplastic glioma for determining outcome and future approach to management. *J Med Imaging Radiat Oncol* 63. 2019/01/25 ed:272-280 (2019)
47 Chan DL, Bernard E, Schembri G, Roach P, Johnson M, Pavlakis N, Clarke SJ, **Bailey DL**. High metabolic tumour volume on FDG PET predicts poor survival from neuroendocrine neoplasms. *Neuroendocrinology*. 2019/11/12 ed (2019)
48 Al-Aamria M, Al-Balushia N, **Bailey DL**. Estimation of Radiation Exposure to Workers During [(18)F] FDG PET/CT Procedures at Molecular Imaging Center, Oman. *J Med Imaging Radiat Sci* 50. 2019/08/27 ed:565-570 (2019)
49 Back M, Jayamanne D, Brazier D, Newey A, Bailey D, Schembri G, Hsiao E, Khasraw M, Wong M, Kastelan M, Brown C, Wheeler H.

Pattern of failure in anaplastic glioma patients with an IDH1/2 mutation. *Strahlenther Onkol*. 2019/04/28 ed (2019)
50 Campbell DH, Sabanathan D, Gurney H, Gillatt D, Trifunovic M, Poursoultan P, Ho Shon K, Mackay T, **Bailey DL**, Roach PJ, Walsh BJ. Outcomes of the miltuximab first in human trial and proposed study design for a phase I trial 89Zr/177Lu theranostic trial. *J Clin Oncol* 37 (2019)
51 Ryu H, Meikle SR, Willowson KP, Eslick EM, **Bailey DL**. Performance evaluation of quantitative SPECT/CT using NEMA NU 2 PET methodology. *Phys Med Biol* 64. 2019/06/18 ed:145017 (2019)

2018
52 **Bailey DL**, Pichler BJ, Guckel B, Antoch G, Barthel H, Bhujwalla ZM, Biskup S, Biswal S, Bitzer M, Boellaard R, Braren RF, Brendle C, Brindle K, Chiti A, la Fougere C, Gillies R, Goh V, Goyen M, Hacker M, Heukamp L, Knudsen GM, Krackhardt AM, Law I, Morris JC, Nikolaou K, Nuyts J, Ordonez AA, Pantel K, Quick HH, Riklund K, Sabri O, Sattler B, Troost EGC, Zaiss M, Zender L, Beyer T. Combined PET/MRI: Global Warming-Summary Report of the 6th International Workshop on PET/MRI, March 27-29, 2017, Tubingen, Germany. *Mol Imaging Biol* 20. 2017/10/04 ed:4-20 (2018)
53 **Bailey DL**, Hofman MS, Forwood NJ, O'Keefe GJ, Scott AM, van Wyngaardt WM, Howe B, Kovacev O, Francis RJ. Accuracy of Dose Calibrators for Gallium-68 PET Imaging: Unexpected Findings in a Multi-Centre Clinical Pre-Trial Assessment. *J Nucl Med* 59. 2018/01/13 ed:636–638 (2018)
54 Eslick EM, Stevens MJ, **Bailey DL**. SPECT V/Q in Lung Cancer Radiotherapy Planning. *Semin Nucl Med* 49. 2018/12/14 ed:31-36 (2018)
55 Forwood N, Willowson KP, Tapner M, **Bailey DL**. Assessment of the relative contribution of volume and concentration changes in Yttrium-90 labelled resin microspheres on ionization chamber measurements. *Australas Phys Eng Sci Med* 40. 2017/11/18 ed:943-948 (2018)
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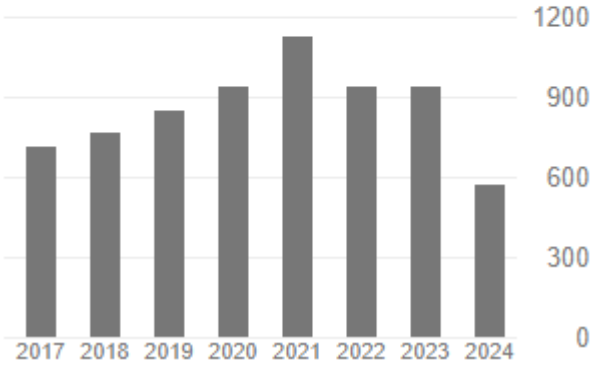

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