CURRICULUM VITÆ

NAME: Dale Lindsay BAILEY

CITIZENSHIP: Australian & British

RESIDENCE: Sydney, Australia

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PRESENT POSITION

Principal Physicist, Department of Nuclear Medicine, Royal North Shore Hospital,

Professor, Faculty of Medicine & Health, University of Sydney

Director, Sydney Vital Translational Cancer Research Centre (CINSW)

Honorary Affiliate, Faculty of Medicine & Health (Northern Clinical School) , 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 (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-present	Director, Sydney Vital Translational Cancer Research Centre (CINSW) (Part-time)
2010-present	Professor, Discipline of Medical Radiation Sciences, University of Sydney (Part-time)
2010-present	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)
2002-2005	Honorary appointments with Guy's & St Thomas' Hospital and Guy's, King's & St Thomas' Medical School, King's College, University of London, and Imperial College of Science, Technology and Medicine
2002-present	Principal Physicist, Department of Nuclear Medicine, Royal North Shore Hospital, Sydney
2001-2005	"*Recognised Teacher"* in Medicine, University of London
2000-2002	Honorary Senior Lecturer in Radiological Sciences, King's College, University of London 1977-79 Trainee in Nuclear Medicine Technology, St George Hospital, Sydney
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. UK 1981
1994-1999	Senior Non-Clinical Scientist (Physics), MRC Cyclotron Unit, Hammersmith Hospital, London. UK
1989-91	Visiting Colleague, Royal Postgraduate Medical School, London - MRC Cyclotron Unit, Hammersmith Hosp
1983-93	Scientific Officer (Physics), Department 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)

Accredited Nuclear Medicine Physicist - 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-present)
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

2019-present	ESHI^{MT} Ambassador for Australia (*European Society for Hybrid, Molecular & Translational Imaging*)
2016-2017	President, ANZSNM
2014-present	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*

2000-03 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, SCHOLARSHIPS, INVITED PRESENTATIONS, CONSULTANCY, EXPERT MISSIONS, etc

2019 Invited Moderator: SPECT Panel Discussions, Siemens World Molecular Imaging Summit, Lausanne, May
2019 Invited Plenary Speaker, Asia & Oceania Congress of Nuclear Medicine & Biology, Shanghai, May
2019 Invited Plenary Speaker, Australian & New Zealand Society of Nuclear Medicine, Adelaide, April
2019 Invited Plenary Speaker, British Nuclear Medicine Society, Oxford, April
2019 Invited Plenary Speaker, Kuwaiti Society of Nuclear Medicine Annual Meeting, Kuwait City, March
2018 Invited Highlights Lecturer, IEEE Medical Imaging Conference and Nuclear Science Symposium, Sydney, November
2018 Invited Plenary Speaker, American Association of Physicists in Medicine Annual Meeting, Nashville TN, USA, July
2018 Invited Highlights Lecturer 12th Congress of World Federation of Nuclear Medicine & Biology, Melbourne, April
2018 Invited Plenary Speaker, International Conference on Radiation Medicine, Riyadh, Saudi Arabia, February
2017 Invited Plenary Speaker, *7th Gulf Nuclear Medicine Conference*, Muscat, Sultanate of Oman, December
2017 Invited Speaker, *1st Sirtex Australian Workshop*, Melbourne, November
2017 Invited Speaker, *RAINS Symposium 2017*, Port Macquarie, NSW, November
2017 Invited Guest Speaker, *ANZSNM NZ Branch Meeting*, Hamilton, NZ, September
2017 Invited Plenary Speaker, *Fisika Medis dan Biofisika 2017*, Depok, Jakarta, Indonesia, August
2016 Invited Plenary Speaker, *4th World Theranostics Symposium*, Melbourne, November
2016 Invited Speaker, *RAINS Symposium 2016*, Wagga Wagga, NSW, November
2016 Distinguished Lecturer – Ipsen Pharmaceuticals, *"An Introduction to Nuclear Medicine"*, Paris, October
2016 Invited Guest Speaker – *PET/MRI Symposium*, Translational Research Institute, Brisbane, September
2016 Invited Guest Speaker – Monash Biomedical Imaging, *PET/MRI Opening Imaging Symposium*, Melbourne, May
2016 Invited Plenary Speaker, *Intl Society for Magnetic Resonance in Medicine Annual Conference 2016*, Singapore, May
2014 Winner *Gammasonics Prize* at ANZSNM ASM (Rotorua) for best paper in Radiation Physics section (with Nick Forwood), April
2015 Invited Plenary Speaker, *1st SAHMRI Molecular Imaging Symposium*, Adelaide, October
2015 Invited Guest Speaker – *25th Anniversary Symposium*, QLD ACPSEM Meeting, Brisbane, August
2015 Invited Guest Speaker – *Indonesian Internal Dosimetry Course*, Bandung, Indonesia, August
2015 Invited Speaker, *ANZNET 2015 (Novartis),* Melbourne, August
2015 Invited Guest Speaker – *Memorial Sloane Kettering Cancer Center*, New York, June
2015 Invited Plenary Speaker, *4th PET/MRI Symposium*, Tubingen, Germany, February
2015 Invited Guest Speaker – *Update on Nuclear Medicine Internal Dosimetry Symposium*, Jakarta, Indonesia, February
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 Invited Guest Lecturer – AINSE Winter School, ANSTO, Lucas Heights, July
2014 Winner *Gammasonics Prize* at ANZSNM ASM (Adelaide) for best paper in Radiation Physics section (with Kathy Willowson), April
2014 Distinguished Guest Lecturer – ANSTO, *Distinguished Lecturer Series*, Lucas Heights, February
2013 Invited Plenary Lecturer – *NZ Engineering & Physical Sciences in Medicine Annual Meeting*, Wellington, November
2013 Invited Plenary Lecturer – *Annual Scientific Meeting of Indonesian Nuclear Science Institute*, Jakarta, October
2013 Invited Plenary Lecturer – *Australian Nuclear Association Symposium*, Sydney, September
2013 Invited Plenary Lecturer – *ANZSNM NZ Branch Annual Symposium*, Palmerston North, NZ, September
2013 Invited Plenary Lecturer – *Academy of Technological Sciences & Engineering (ATSE) Symposium*, Sydney, July
2013 Continuing Education Lecture – *SNMMI Annual Scientific Meeting*, Vancouver, CAN, June
2013 Invited Lecturer – *2nd Tubingen PET/MRI Symposium*, Tubingen, Germany, April
2012 Invited Plenary Lecturer – *ANZSNM TSIG Annual Symposium*, Hervey Bay, QLD, August
2012 Invited Plenary Lecturer, *52nd Annual Scientific Meeting of Japanese Society of Nuclear Medicine*, Sapporo, October
2012 Continuing Education Lecture – *SNMMI Annual Scientific Meeting*, Miami, USA, June
2012 Invited Lecturer – *1st Tubingen PET/MRI Symposium*, Tubingen, Germany, April
2011 Invited Lecturer, *The Dr RD Lele Oration*, *Association of Nuclear Medicine Physicians of India Annual Meeting*, Hyderabad, India, September
2011 IAEA Mission to South America – Regional Training Course on Physics in Nuclear Medicine, Mendoza, Argentina, October
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*, December
2009 Winner – ANSTO Award "*for significant innovation in research or clinical practice in the field of Nuclear Medicine*" Australian and New Zealand Society of Nuclear Medicine Annual Scientific Meeting, April
2009 IAEA Mission to South Africa – Regional (AFRA) Training Course on Image Processing, Reconstruction, Analysis and Quantification, Blomfontein, May
2009 Invited Plenary Speaker, *XXVe Colloque de l'Association des médecins specialists en médecin nucléaire du Quebec (AMSMNQ),* Gatineau-Ottowa, Canada, April

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)
2006 Invited Plenary Lecturer, IPEM Meeting "PET/CT & SPECT/CT: practical issues & applications", London, February
2005 Invited Symposium Lecturer, *European Association of Nuclear Medicine*, Istanbul, October
2005 Invited Plenary Lecturer, *ACPSEM Engineering & Physical Sciences in Medicine*, Adelaide, October
2005 Grand Prize winner, University of Sydney "Innovation Challenge" for the concept company *PharmaScint*
2005 Invited Lecturer, *Royal Marsden PET Course*, Royal Marsden Hospital, Sutton, UK, February
2005 Invited Plenary Lecturer, *14^{5h} Congress of the International Society for Aerosols in Medicine*, March
2005 Invited Plenary Lecturer, IPEM Meeting "Quantitative Imaging in Nuclear Medicine", London, February
2004 Invited Categorical Session Lecturer, *Society of Nuclear Medicine*, Philadelphia, USA, June
2004 Lowenthal Lecturer, *Australian & New Zealand Society of Nuclear Medicine*, Wellington (NZ), April
2003 Invited Plenary Lecturer, *14th Congress of the International Society for Aerosols in Medicine*, June
2002 Invited Plenary Lecturer, *Belgian Nuclear Medicine Society*, May
2001 Independent Technical Advisor – Australian Commonwealth Government *Tender for PET Services*
2001 Invited Plenary Lecturer, *British Nuclear Cardiology Society*, December
2000 Lowenthal Lecturer, *Australian & New Zealand Society of Nuclear Medicine*, Adelaide, May
2000 Invited Plenary Lecturer, *Scandinavian Congress on Nuclear Medicine & Physiology*, Aarhus, April
1993 Royal Society/Australian Academy of Science - Scientific Exchange Award, London, August
1992 Visiting Research Scientist, University of British Columbia and TRIUMF, Vancouver, Canada, February
1991 Invited Plenary Lecturer, *31st Annual Scientific Meeting of Japanese Society of Nuclear Medicine*, Matsuyamah, October
1988 Boyce Worthley Prize for Young Investigators (Australian College of Physical Sciences in Medicine)

GRANTS OBTAINED

2019 "The BAYONET Study" – Accuracy of PET/CT [^{68}Ga]DOTATATE Imaging – Ipsen (Australia) $40,000 (**Bailey DL**)
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, Guminki 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**)
2017-18 "Development of Quantification for Kidney and Tumour Dosimetry after Somatostatin Receptor ([^{177}Lu]DOTA-Octreotide – "Lutate") Administration" – Siemens Healthcare; $100,000 over 2 years (**Bailey DL** and Roach PJ)
2016-18 "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 (Feb)

2015 Lecturer: Workshop on Internal Dosimetry Assessment in Nuclear Medicine (BATAN), Bandung, Indonesia (Aug)

2011 Lecturer (Physics): *IAEA Regional (ARCAL) Training Course on Nuclear Medicine Physics,* Mendoza, ARG (Oct)

2010 Professor in Medical Radiation Sciences, Faculty of Health Science, University of Sydney (Part-time)

2009 Lecturer (Physics): *IAEA Regional (AFRA) Training Course on Image Processing, Reconstruction, Analysis and Quantification*, Blomfontein, RSA (June)

2008- Lecturer (Physics): *PET and SPECT with CT* course, RIAP/NIF, University of Sydney

2008- Lecturer (Physics): *Foundations of PET/CT* course, RIAP/NIF, University of Sydney

2006-09 Associate Professor in Medical Radiation Sciences, Faculty of Health Science, University of Sydney (Part-time)

2003- Lecturer (SPECT & PET): ANZAPNM Basic Sciences Course for Advanced Medical Trainees

2003-05 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

1985-94 Lecturer (Physics & Instrumentation) - *Isotopes in Medicine*, Australian Nuclear Science & Technology Organisation (ANSTO)

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 (May)
1985-87 Lecturer - Nucleonics I & II - *Assoc Dip Nucl Med Tech*, Sydney Technical College

Student Supervision

2018- Harry Marquis, Faculty of Science University of Sydney, *PhD*, Thesis title (provisional): *"Development of a Dosimetry Platform for Theranostic Agents"*
2018 Monika Mikhail, School of Physics, University of Sydney *MMedPhys*, Thesis title: *"Density-Corrected Whole Body Pet Scanning"*
2018- Takinori HIOKI, Faculty of Science University of Sydney, *PhD*, Thesis title (provisional): *"Radiobiology in the Improvement of Radiopharmaceutical Design"*
2016- HyunJu Ryu, Faculty of Health Sciences, University of Sydney, *PhD*, Thesis title (provisional): *"Quantification for Imaging and Dosimetry with Lutetium-177"*
2016 Eric Courtney Henry, School of Physics, University of Sydney *MMedPhys*, Thesis title: *"Measuring Total Body Disease Burden on PET/CT"*
2015- David Chan, Sydney Medical School, *PhD*, Thesis title: "*Determining Prognosis in Neuroendocrine Tumours"*
2015-17 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- Michael Back, Sydney Medical School, *PhD*, Thesis title: "*Improving the Outcomes of Radiation Therapy in the Management of Anaplastic Oligodengroglial Tumours*"
2013-16 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- 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 Flourodeoxyglucose 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)
2009-18 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)
2009-14 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*
2006-09 Kathy Willowson, Institute of Medical Physics, School of Physics, University of Sydney, *PhD*, Thesis title: "*CT-based Quantitative SPECT*"
2005-07 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*"
2004-12 Daryl Gibson, School of Physics, University of Sydney, *MSc*, Thesis title: "*Individualised Dosimetry for [^{131}I]-Lipiodol and [^{90}Y]-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"*

2001-05 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 ^{201}Tl"*

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"*

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

2004-06 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 Medcine (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

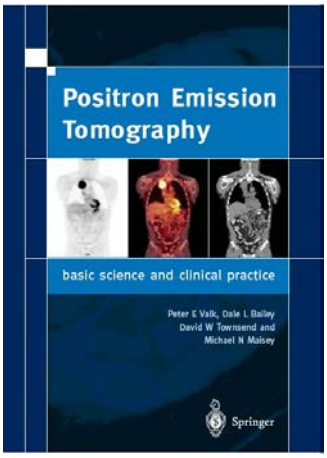
Catalyst, ABC TV, 05/06/2008: "*Meet Dale Bailey*" – feature on physics/nuclear medicine and relationship to creativity and problem-solving (see http://www.abc.net.au/catalyst/stories/2266157.htm)

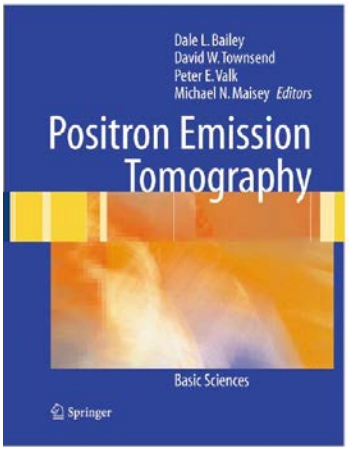
OpEd, **Sydney Morning Herald**, 21/11/2006: "*Change the fuel for a happier reaction*" - opinion piece on thorium-based nuclear power generation

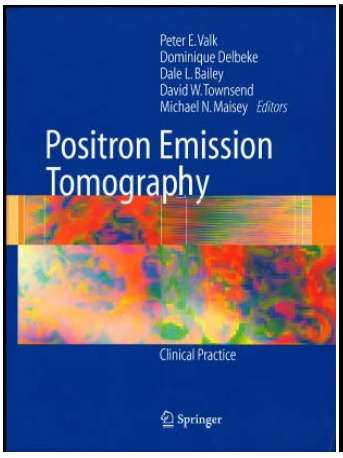
PUBLICATIONS

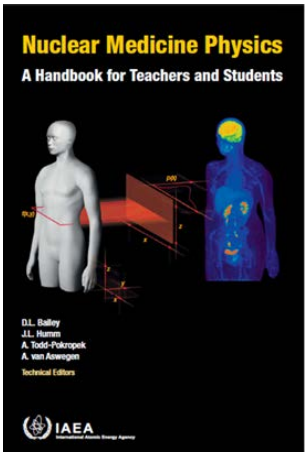
BOOKS, BOOK CHAPTERS

1 **Bailey DL**, Humm JL, Todd-Pokropek A and van Aswegen A: *Nuclear Medicine Physics: A Handbook for Teachers and Students*. (2015) IAEA Publ.
2 **Bailey DL** and Willowson KP: Physics and Technology of SPECT/CT. *Clinical Applications of SPECT-CT* (2014)
3 **Bailey DL** and Humm JL: Physics of Nuclear Oncology. *Nuclear Oncology: Pathophysiology and Clinical Applications* 79-92 (2013)
4 **Bailey DL**: Basics of nuclear medicine imaging (online at http://hstalks.com/?t=BL1032469-Bailey). *Medical Imaging: Imaging Techniques for Pre-clinical and Clinical Applications* (2010)
5 Valk PE, Delbeke D, **Bailey DL**, Townsend DW and Maisey MN: Positron Emission Tomography: Clinical Practice. 482 (2006)
6 **Bailey DL**, Townsend DW, Valk PE and Maisey MN: Positron Emission Tomography: Basic Science. 382 (2005)
7 **Bailey DL**: Attenuation Correction in PET and SPECT. *Clinical Nuclear Medicine* 869-879 (2006)
8 Valk PE, **Bailey DL**, Townsend DW and Maisey MN: Positron Emission Tomography: Basic Science & Clinical Practice. 884 (2003)
9 **Bailey DL**: Spatial Inaccuracies in Emission Tomography. *Medical Image Registration* 97-103:(2001)
10 **Bailey DL**: Image Registration in Nuclear Medicine. *Medical Image Registration* 233-252 (2001)
11 **Bailey DL** and Parker JA: Single photon emission computed tomography. *Nuclear Medicine in Clinical Diagnosis and Treatment* 2:1589-1601 (1998)
12 **Bailey DL**: Quantitative Procedures in 3D PET. *The Theory and Practice of 3D PET* 1:55-109 (1998)
13 Robinson M, Hemming A, Regnis JA, Bye PTP, Bautovich GJ, **Bailey DL**, King M and Feng W: Improved Mucociliary Clearance Following Nebulization with Hypertonic Saline in Adults with Cystic Fibrosis. *Cilia, Mucus, and Mucociliary Interactions* 265-280 (1998)
14 **Bailey DL**: Recent Trends in PET Camera Designs. *Positron Emission Tomography: A Critical Assessment of Recent Trends* 3/51:45-56 (1998)
15 Rakshi JS, **Bailey DL**, Morrish PK, Miller MP and Brooks DJ: 3D ^{18}F-Fluorodopa PET: Improved Kinetics and Discrimination in Parkinson's Disease. *The Theory and Practice of 3D PET* 150-154 (1998)
12 **Bailey DL**: Quantitative Procedures in 3D PET. *The Theory and Practice of 3D PET* 1:55-109 (1998)
13 Myers R, Cunningham VJ, **Bailey DL** and Jones T: Quantification of Brain Function with PET. 1:(1996)
14 **Bailey DL** and Parker JA: Single Photon Emission Computed Tomography. *Nuclear Medicine in Clinical Diagnosis and Treatment* 2:1315-1326 (1995)









JOURNAL ARTICLES

PUBLICATIONS

2020

1 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)

2 **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)

3 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)

2019

4 **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)

5 Eslick EM, Stevens MJ, **Bailey DL**. SPECT V/Q in Lung Cancer Radiotherapy Planning. *Semin Nucl Med* 49. 2018/12/14 ed:31-36 (2019)

6 **Bailey DL**, Roach PJ. Letter From the Guest Editors. *Semin Nucl Med* 49. 2018/12/14 ed:2-3 (2019)

7 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)

8 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)

9 Back M, Jayamanne DT, Brazier D, Newey A, **Bailey DL**, Schembri GP, Hsiao E, Khasraw M, Wong M, Kastelan M, Guo L, Clarke S, 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)

10 Chan DL, Bernard E, Schembri G, Roach P, Johnson M, Pavlakis N, Clarke SJ, Bailey D. High metabolic tumour volume on FDG PET predicts poor survival from neuroendocrine neoplasms. *Neuroendocrinology*. 2019/11/12 ed (2019)

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11 **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)

12 **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)

13 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)

14 Hayes AR, Jayamanne D, Hsiao E, Schembri GP, **Bailey DL**, Roach PJ, Khasraw M, Newey A, Wheeler HR, Back M. Utilizing 18F-fluoroethyltyrosine (FET) positron emission tomography (PET) to define suspected nonenhancing tumor for radiation therapy planning of glioblastoma. *Pract Radiat Oncol*. 2018/05/08 ed (2018)

15 Willowson KP, Ryu H, Jackson P, Singh A, Eslick EM, **Bailey DL**. A Comparison of 2D and 3D Kidney Absorbed Dose Measures in Patients Receiving 177Lu-DOTATATE. *Asia Ocean J Nucl Med Biol* 6:113-119 (2018)

16 Gholami Y, Willowson KP, Forwood N, J, Harvie R, Hardcastle N, Bromley R, Ryu H, Yuen S, Howell V, Kuncic Z, **Bailey DL**. Comparison of radiobiological parameters for ^{90}Y Radionuclide Therapy (RNT) and External Beam Radiotherapy (EBRT) in vitro. *Eur J Nucl Med Mol Imag Physics* 5:18 (2018)

17 Hofman MS, Murphy DG, Williams SG, Nzenza T, Herschtal A, De Abreu Lourenco R, **Bailey DL**, Budd R, Hicks RJ, Francis RJ, Lawrentschuk N. A prospective randomised multi-centre study of the impact of Ga-68 PSMA-PET/CT imaging for staging high risk prostate cancer prior to curative-intent surgery or radiotherapy (proPSMA study): clinical trial protocol. *BJU Int*. 2018/05/05 ed (2018)

18 Singh S, Moody L, Chan DL, Metz DC, Strosberg J, Asmis T, **Bailey DL**, Bergsland E, Brendtro K, Carroll R, Cleary S, Kim M, Kong G, Law C, Lawrence B, McEwan A, McGregor C, Michael M, Pasieka J, Pavlakis N, Pommier R, Soulen M, Wyld D, Segelov E, Commonwealth Neuroendocrine Tumour Collaboration Follow-up Working G. Follow-up Recommendations for Completely Resected Gastroenteropancreatic Neuroendocrine Tumors. *JAMA Oncol*. 2018/07/29 ed (2018)

19 Chan DL, Hsiao E, Schembri G, **Bailey DL**, Roach PJ, Lee A, Jayamanne D, Ghasemzadeh M, Hayes A, Cook R, Parkinson J, Drummond JP, Ibbett I, Wheeler HR, Back M. FET PET in the evaluation of indeterminate brain lesions on MRI: Differentiating glioma from other non-neoplastic causes - A pilot study. *J Clin Neurosci*. 2018/09/24 ed (2018)

20 Eslick EM, Kipritidis J, Gradinscak D, Stevens MJ, **Bailey DL**, Harris B, Booth JT, Keall PJ. CT ventilation imaging derived from breath hold CT exhibits good regional accuracy with Galligas PET. *Radiother Oncol* 127. 2018/01/02 ed:267-273 (2018)

21 Jaymanne DT, Kaushal S, Chan DLH, Schembri G, Brazier D, **Bailey DL**, Wheeler H, Back M. Utilizing 18F-fluoroethyl-l-tyrosine positron emission tomography in high grade glioma for radiation treatment planning in patients with contraindications to MRI. *J Med Imaging Radiat Oncol* 62. 2017/10/06 ed:122-127 (2018)

22 Willowson KP, Eslick E, Ryu H, Poon A, Bernard EJ, **Bailey DL**. Feasibility and accuracy of single time point imaging for renal dosimetry following (177)Lu-DOTATATE ('Lutate') therapy. *EJNMMI Phys* 5. 2018/12/21 ed:33 (2018)

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23 Willowson KP, Bernard EJ, Maher R, Clarke SJ, **Bailey DL**. Changing Therapeutic Paradigms: Predicting mCRC Lesion Response to Selective Internal Radionuclide Therapy (SIRT) based on Critical Absorbed Dose Thresholds: A Case Study. *Asia Oceania J Nucl Med Biol* 5:66-69 (2017)

24 Chan DLH, Pavlakis N, Schembri G, Bernard E, Hsiao E, Hayes AR, Barnes T, Diakos C, Khasraw M, Samra J, Eslick EM, Roach PJ, Engel A, Clarke SJ, **Bailey DL**. Dual Somatostatin Receptor/FDG PET/CT Imaging in Metastatic Neuroendocrine Tumours: Proposal for a Novel Grading Scheme with Prognostic Significance *Theranostics* 7:1149-1158 (2017)

25 Chan DLH, Clarke SJ, Diakos CI, Roach PJ, **Bailey DL**, Singh S, Pavlakis N. Prognostic and predictive biomarkers in neuroendocrine

tumours. *Crit Rev Oncol Hematol* 113:268-282 (2017)

26 Gzell C, Back M, Wheeler H, **Bailey DL**, Foote M. Radiotherapy in Glioblastoma: the Past, the Present and the Future. *Clin Oncol (R Coll Radiol)* 29. 2016/10/17 ed:15-25 (2017)

27 van Zandwijk N, Pavlakis N, Kao SC, Linton A, Boyer MJ, Clarke S, Huynh Y, Chrzanowska A, Fulham MJ, **Bailey DL**, Cooper WA, Kritharides L, Ridley L, Pattison ST, MacDiarmid J, Brahmbhatt H, Reid G. Safety and activity of microRNA-loaded minicells in patients with recurrent malignant pleural mesothelioma: a first-in-man, phase 1, open-label, dose-escalation study. *Lancet Oncol*. 2017/09/06 ed (2017)

28 Back M, LeMottee M, Crasta C, **Bailey DL**, Wheeler H, Guo L, Eade T. Reducing radiation dose to normal brain through a risk adapted dose reduction protocol for patients with favourable subtype anaplastic glioma. *Radiat Oncol* 12. 2017/03/04 ed:46 (2017)

29 Sammel AM, Hsiao E, Schrieber L, Janssen B, Youssef P, Fraser CL, Kuo CH, Dunn H, **Bailey DL**, Roach P, Schembri G, Bailey E, Nguyen K, Farmakis P, Laurent R. Fluorine-18 Fluoro-2-Deoxyglucose Positron Emission Tomography Uptake in the Superficial Temporal and Vertebral Arteries in Biopsy Positive Giant Cell Arteritis. *J Clin Rheumatol* 23. 2017/09/28 ed:443 (2017)

30 Eslick EM, Kipritidis J, Gradinscak D, Stevens MJ, **Bailey DL**, Harris B, Booth JT, Keall PJ. CT ventilation imaging derived from breath hold CT exhibits good regional accuracy with Galligas PET. *Radiother Oncol* 127. 2018/01/02 ed:267-273 (2017)

31 Farrow CE, Salome CM, Harris BE, **Bailey DL**, Berend N, King GG. Peripheral Ventilation Heterogeneity Determines the Extent of Bronchoconstriction in Asthma. *J Appl Physiol (1985)*. 2017/08/12 ed:jap 00640 02016 (2017)

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32 Forwood NJ, Kanthan GL, **Bailey DL**, Chan DL, Schembri GP. 68Ga-DOTATATE Breast Uptake and Expression in Breast Milk. *Clin Nucl Med* (2016)

33 **Bailey DL**, Lee A, Li BT, Clarke SJ. PET monitoring of liver directed selective internal radionuclide therapy for metastatic gastro-oesophageal cancer. *BMJ Case Rep* 2016 (2016)

34 **Bailey DL**, Eslick EM, Schembri GP, Roach PJ. 68Ga PET Ventilation and Perfusion Lung Imaging-Current Status and Future Challenges. *Semin Nucl Med* 46:428-435 (2016)

35 **Bailey DL**, Pichler BJ, Guckel B, Barthel H, Beer AJ, Botnar R, Gillies R, Goh V, Gotthardt M, Hicks RJ, Lanzenberger R, la Fougere C, Lentschig M, Nekolla SG, Niederdraenk T, Nikolaou K, Nuyts J, Olego D, Riklund KA, Signore A, Schafers M, Sossi V, Suminski M, Veit-Haibach P, Umutlu L, Wissmeyer M, Beyer T. Combined PET/MRI: from Status Quo to Status Go. Summary Report of the Fifth International Workshop on PET/MR Imaging; February 15-19, 2016; Tubingen, Germany. *Mol Imaging Biol* (2016)

36 MacDiarmid JA, Langova V, **Bailey DL**, Pattison ST, Pattison SL, Christensen N, Armstrong LR, Brahmbhatt VN, Smolarczyk K, Harrison MT, Costa M, Mugridge NB, Sedliarou I, Grimes NA, Kiss DL, Stillman B, Hann CL, Gallia GL, Graham RM, Brahmbhatt H. Targeted Doxorubicin Delivery to Brain Tumors via Minicells: Proof of Principle Using Dogs with Spontaneously Occurring Tumors as a Model. *PLoS One* 11. 2016/04/07 ed:e0151832 (2016)

37 Dylke ES, Schembri GP, **Bailey DL**, Bailey E, Ward LC, Refshauge K, Beith J, Black D, Kilbreath SL. Diagnosis of upper limb lymphedema: development of an evidence-based approach. *Acta Oncol* 55. 2016/06/23 ed:1477-1483 (2016)

38 Chan DLH, Pavlakis N, Roach PJ, **Bailey DL**, Arena J, Segelov E. Pancreatic neuroendocrine tumours – a rare pancreatic tumour. *Cancer Forum* 40:34-39 (2016)

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39 **Bailey DL**, Antoch G, Bartenstein P, Barthel H, Beer AJ, Bisdas S, Bluemke DA, Boellaard R, Claussen CD, Franzius C, Hacker M, Hricak H, la Fougere C, Guckel B, Nekolla SG, Pichler BJ, Purz S, Quick HH, Sabri O, Sattler B, Schafer J, Schmidt H, van den Hoff J, Voss S, Weber W, Wehrl HF, Beyer T. Combined PET/MR: The Real Work Has Just Started. Summary Report of the Third International Workshop on PET/MR Imaging; February 17-21, 2014, Tubingen, Germany. *Mol Imaging Biol* 17:297-312 (2015)

40 Park WD, Li BT, Maher R, Samra JS, Clarke S, Bernard EJ, **Bailey DL**, Pavlakis N. Dramatic response to selective internal radiation therapy for unresectable hepatocellular carcinoma. *Oxf Med Case Rep* 2015(2):194-195 (2015)

41 Willowson KP, Tapner M, Quest_Investigator_Team, **Bailey DL**. A multicentre comparison of quantitative ^{90}Y PET/CT for dosimetric purposes after radioembolization with resin microspheres: The QUEST Phantom Study. *Eur J Nucl Med Mol Imaging* 42:1202-1222 (2015)

42 Aslani A, Snowdon G, **Bailey DL**, Schembri G, Bailey EA, Pavlakis N, Roach PJ. Lutetium-177 DOTATATE Production with an Automated Radiopharmaceutical Synthesis System. *Asia Oceania J Nucl Med Biol* 3:107-115 (2015)

43 Carlier T, Willowson KP, Fourkal E, **Bailey DL**, Doss M, Conti M. (90)Y-PET imaging: Exploring limitations and accuracy under conditions of low counts and high random fraction. *Med Phys* 42:4295 (2015)

44 Eslick EM, **Bailey DL**, Harris B, Kipritidis J, Stevens M, Li BT, Bailey E, Gradinscak D, Pollock S, Htun C, Turner R, Eade T, Aslani A, Snowdon G, Keall PJ. Measurement of preoperative lobar lung function with computed tomography ventilation imaging: progress towards rapid stratification of lung cancer lobectomy patients with abnormal lung function. *Eur J Cardiothorac Surg* 49:1075-1082 (2015)

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46 Schembri GP, Roach PJ, **Bailey DL**, Freeman L. Artifacts and Anatomical Variants Affecting Ventilation and Perfusion Lung Imaging. *Semin Nucl Med* 45:373-391 (2015)

47 **Bailey DL**, Pichler BJ, Guckel B, Barthel H, Beer AJ, Bremerich J, Czernin J, Drzezga A, Franzius C, Goh V, Hartenbach M, Iida H, Kjaer A, la Fougere C, Ladefoged CN, Law I, Nikolaou K, Quick HH, Sabri O, Schafer J, Schafers M, Wehrl HF, Beyer T. Combined PET/MRI: Multi-modality Multi-parametric Imaging Is Here : Summary Report of the 4th International Workshop on PET/MR Imaging; February 23-27, 2015, Tubingen, Germany. *Mol Imaging Biol* 17:595-608 (2015)

48 **Bailey DL**, Hennessy TM, Willowson KP, Henry EC, Chan DLH, Aslani A, Roach PJ. In Vivo Measurement and Characterisation of a Novel Formulation of [177Lu]-Dota-Octreotate. *Asia Oceania J Nucl Med Biol* 4:30-37 (2015)

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50 Aslani A, Snowdon GM, **Bailey DL**, Schembri GP, Bailey EA, Roach PJ. Gallium-68 DOTATATE Production with Automated PET Radiopharmaceutical Synthesis System: A Three Year Experience. *Asia Oceania J Nucl Med Biol* 2:75-86 (2014)

51 Lau EM, **Bailey DL**, Bailey EA, Torzillo PJ, Roach PJ, Schembri GP, Corte TJ, Celermajer DS. Pulmonary hypertension leads to a loss of gravity dependent redistribution of regional lung perfusion: a SPECT/CT study. *Heart* 100:47-53 (2014)

52 **Bailey DL**, Willowson KP. Quantitative SPECT/CT: SPECT joins PET as a quantitative imaging modality. *Eur J Nucl Med Mol Imaging* 41 Suppl 1:S17-S25 (2014)

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54 **Bailey DL**. Thirty years from now: future physics contributions in nuclear medicine. *Eur J Nucl Med Mol Imag Physics* 1:1-8 (2014)

55 Li M, Chan D, Li BT, Pavlakis N, Kneebone A, **Bailey DL**, Clarke S. Enduring complete metabolic response in metastatic adenocarcinoma of the gastro-oesophageal junction. *Oxf Med Case Rep* 2014:105-106 (2014)

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56 Roach PJ, Schembri GP, **Bailey DL**. V/Q Scanning Using SPECT and SPECT/CT. *J Nucl Med* 54:1588-1596 (2013)

57 **Bailey DL**, Willowson KP. An Evidence-Based Review of Quantitative SPECT Imaging and Potential Clinical Applications. *J Nucl Med* 54:83–89 (2013)

58 Al-Bulushi NK, **Bailey DL**, Mariani G. The Medical Case for a Positron Emission Tomography and X-ray Computed Tomography Combined Service in Oman. *Sultan Qaboos Univ Med J* 13:491-501 (2013)

59 **Bailey DL**, Barthel H, Beyer T, Boellaard R, Guckel B, Hellwig D, Herzog H, Pichler BJ, Quick HH, Sabri O, Scheffler K, Schlemmer HP, Schwenzer NF, Wehrl HF. Summary report of the First International Workshop on PET/MR imaging, March 19-23, 2012, Tubingen, Germany. *Mol Imaging Biol* 15:361-371 (2013)

60 Bailey EA, **Bailey DL**, Hunyor SN, Ladd L, Bautovich GJ. Translation of Methodology Used In Human Myocardial Imaging to a Sheep Model of Acute Myocardial Infarction. *Asia Oceania J Nucl Med Biol* 1:10-21 (2012)

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61 Bailey EA, **Bailey DL**. Results from an Australian and New Zealand audit of left ventricular ejection fraction from gated heart pool scan analysis. *Nucl Med Commun* 33. 2011/10/18 ed:102-111 (2012)

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63 Willowson K, **Bailey DL**, Schembri G, Baldock C. CT-based quantitative SPECT for the radionuclide ^{201}Tl: Experimental validation and a standardized uptake value for brain tumour patients. *Cancer Imaging* 12:31-40 (2012)

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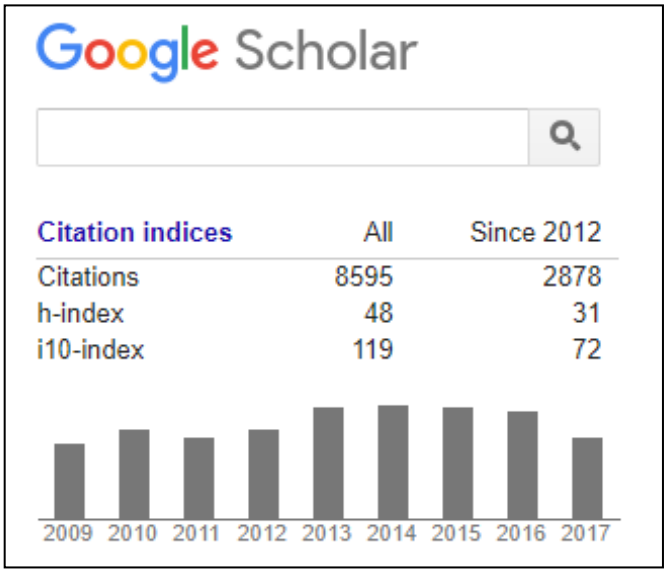

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