CURRICULUM VITÆ

NAME: Dale Lindsay BAILEY

CITIZENSHIP: Australian & British (EU)

RESIDENCE: Sydney, Australia

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ACADEMIC RECORD

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

Tertiary: BAppSc(*Hons*) (Physics), NSW Institute of Technology (1980-83);
Thesis title: *"Rotating & Planar Displays in Nuclear Medicine"*

MAppSc (Physics), University of Technology, Sydney (1984-1986);
Thesis title: "*Towards Quantitation in SPECT: A Dual Radionuclide Approach"*

PhD (Physics), University of Surrey, UK (1992-1996);
Thesis title: *"Quantification in 3D Positron Emission Tomography"*

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)
Accreditation in Nuclear Medicine Physics (ACPSEM) (2004)

PRESENT POSITION

Principal Physicist, Department of Nuclear Medicine, Royal North Shore Hospital,
Associate Professor, School of Medical Radiation Sciences, University of Sydney
and Clinical Associate Professor, Faculty of Medicine (Northern Clinical School),
University of Sydney, St Leonards, Sydney. Australia. 2065

POSTS HELD

1977-79	Trainee in Nuclear Medicine Technology, St George Hospital, Sydney
1981	Trainee Physicist, Australian Atomic Energy Commission, Sydney
1983	Visiting Lecturer in Radiology, Harvard Medical School, Boston, USA
1983-93	Scientific Officer (Physics), Department of Nuclear Medicine, Royal Prince Alfred Hospital, Sydney
1989-91	Visiting Colleague, Royal Postgraduate Medical School, London - at MRC Cyclotron Unit, Hammersmith Hospital (on special leave from RPAH)
1994-1999	Senior Non-Clinical Scientist (Physics), MRC Cyclotron Unit, Hammersmith Hospital, London. UK
1997-2000	Honorary Lecturer in Radiological Sciences, United Medical & Dental Schools, London. UK
1999-2002	Consultant Physicist-in-Charge, Department of Nuclear Medicine, Guy's & St Thomas' Hospital, London
2000-2002	Honorary Senior Lecturer in Radiological Sciences, King's College, University of London
2001-2005	'Recognised Teacher' in Medicine, University of London
2002-present	Principal Physicist, Department of Nuclear Medicine, Royal North Shore Hospital, Sydney
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
2003-2006	Senior Lecturer in Physics, School of Medical Radiation Sciences, University of Sydney (Part-time)
2003-present	Clinical Associate Professor, Faculty of Medicine (Northern Clinical School), University of Sydney
2006-present	Honorary Associate, School of Physics, Faculty of Science, University of Sydney
2006-present	Associate Professor, Discipline of Medical Radiation Sciences, University of Sydney (Part-time)

MEMBERSHIP OF PROFESSIONAL BODIES

Member -	Australian & New Zealand Society of Nuclear Medicine (1977-1993,2003-present)
Assoc.Member -	Australian College of Physical Scientists in Medicine (1978-1987)
Member -	Australian College of Physical Scientists & Engineers in Medicine (1988-2007)
Member -	Society of Nuclear Medicine (1991-present)
Member -	Institute of Physics and Engineering in Medicine (1999-2000)
Affiliate-	Royal College of Physicians (London) (2000-present)
Fellow -	Institute of Physics and Engineering in Medicine (2001-present)
Member -	American Society of Nuclear Cardiology (2003-present)

Chartered Scientist (CSci) – UK Science Council (2004-present; Registration number: PEM 108 008825)

Accredited Nuclear Medicine Physicist - Australian College of Physical Scientists & Engineers in Medicine (2004-present)

Fellow - Australian College of Physical Scientists & Engineers in Medicine (2007-present)

HONORARY POSITIONS, BOARD APPOINTMENTS

Member -	*Australian & New Zealand Society of Nuclear Medicine Accreditation Board* (non-medical graduate representative) (1986-1989)
Reviewer -	*Physics in Medicine & Biology*, Published by the Institute of Physics (UK)
Reviewer -	*Journal of Nuclear Medicine*, The Society of Nuclear Medicine, New York
Reviewer -	*Transactions in Medical Imaging* and *Transactions on Nuclear Science*, The Institute of Electrical and Electronic Engineers, New York
Member -	Editorial Board, *Physics in Medicine & Biology* (2000-2003)
Member -	Medical Advisory Board, *Research Systems Inc.*, Boulder CO, USA (2000-2001)
Member -	Nuclear Medicine Software Working Party (IPEM/BNMS) (2000-2002)

Independent Technical Advisor – Australian Commonwealth Government Tender for PET Services (2001)

Member - Attenuation Correction Task Group, American Society of Nuclear Cardiology (2003-2004)

Member - Executive Committee, NSW Health Nuclear Medicine Services Network (GMCT) (2003-04)

Co-Chair - NSW Health Nuclear Medicine Services Network (GMCT) (2005-2006)

Member - Executive Committee, Royal North Shore Hospital Scientific Staff Council (2003-2004)

Chair - Royal North Shore Hospital Scientific Staff Council (2005-2007)

Chair - Working Party of ANZSNM Technical Standards Committee which developed national guidelines for PET facility accreditation ("*Requirements for PET Accreditation (Instrumentation & Radiation Safety*") (2006)

Chair - Royal North Shore/University of Sydney "Advanced Research & Clinical High-Field Imaging" (ARCHI) Facility Scientific Committee (2007-2008)

AWARDS, SCHOLARSHIPS, INVITED PRESENTATIONS, etc

1988 Boyce Worthley Prize for Young Investigators (Australian College of Physical Sciences in Medicine)

1991 Invited Plenary Lecturer, *31st Annual Scientific Meeting of Japanese Society of Nuclear Medicine*, Matsuyamah, October 1991

Feb 1992 Visiting Research Scientist, University of British Columbia and TRIUMF, Vancouver, Canada

Aug 1993 Royal Society/Australian Academy of Science - Scientific Exchange Award, London

2000 Lowenthal Lecturer, *Australian & New Zealand Society of Nuclear Medicine*, Adelaide, May 2000

2000 Invited Plenary Lecturer, *Scandinavian Congress on Nuclear Medicine & Physiology*, Aarhus, April 2001

2001 Invited Plenary Lecturer, *British Nuclear Cardiology Society*, December 2001

2002 Invited Plenary Lecturer, *Belgian Nuclear Medicine Society*, May 2002

2003 Invited Plenary Lecturer, *14th Congress of the International Society for Aerosols in Medicine*, June 2003

2004 Lowenthal Lecturer, *Australian & New Zealand Society of Nuclear Medicine*, Wellington (NZ), Apr 2004

2005 Invited Plenary Lecturer, IPEM Meeting "Quantitative Imaging in Nuclear Medicine", London, Feb 2005

2005 Invited Categorical Session Lecturer, *Society of Nuclear Medicine*, Philadelphia, USA, Jun 2004

2005 Invited Lecturer, *Royal Marsden PET Course*, Royal Marsden Hospital, Sutton, UK, Feb 2005

2005 Invited Plenary Lecturer, *14^{5h} Congress of the International Society for Aerosols in Medicine*, March 2005

2005 Invited Symposium Lecturer, *European Association of Nuclear Medicine*, Istanbul, October 2005

2005 Invited Plenary Lecturer, *ACPSEM Engineering & Physical Sciences in Medicine*, Adelaide, October 2005

2005 Grand Prize winner, University of Sydney "Innovation Challenge" for the concept company *PharmaScint*

2006 Invited Plenary Lecturer, IPEM Meeting "PET/CT & SPECT/CT: practical issues & applications", London, Feb 2006

2008 Australian Academy of Science, North American Travel Award (Memorial Sloan Kettering Cancer Center, NY)

2008 Recipient, Royal North Shore Scientific Staff Council International Study Fellowship, 2008

2008 ACPSEM Richard Bates Travel Scholarship recipient

Apr 2009 Invited Plenary Speaker, *XXV^{e} Colloque de l'Association des médecins specialists en médecin nucléaire du Quebec (AMSMNQ),* Palais des Congrès de Gatineau, Gatineau-Ottowa, CANADA

Apr 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, 2009)

GRANTS OBTAINED (as Principal Investigator)

1991 "Quantitative single photon emission computed tomography of the myocardium: clinical implementation"

- *National Health & Medical Research Council* (Australia), $A100,000 over 3 years

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

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

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

2005 "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

2006 "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

2007 "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

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*.)

EDUCATIONAL

Teaching

1985-1987 Lecturer - Nucleonics I & II - *Assoc Dip Nucl Med Tech*, Sydney Technical College

May 1988 Lecturer (Physics & Instrumentation) - *National Course on the Applications of Nuclear Techniques in Medicine*, Bandung, Indonesia, for the Australian Development Assistance Board

1985-1994 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

1994 Lecturer - *Theoretical and Practical Aspects of Image Reconstruction for Volume PET Scanners*, IEEE Nuclear Science Symposium Short Course, Norfolk, Virginia, USA

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)

2000 Course Organiser and Lecturer – *PET: State of the Art,* IEEE Nuclear Science Symposium Short Course, Lyon, France

2001 Course Organiser and Lecturer – *Principles & Recent Advances in Emission Computed Tomography*, IEEE Nuclear Science Symposium Short Course, San Diego, USA

2002 Course Co-Ordinator & Principal Lecturer, *"Update in Nuclear Medicine"*, King Faisal Specialist Hospital & Research Centre, Riyadh, Kingdom of Saudi Arabia, May 2002

2003-2005 Senior Lecturer in Physics, School of Medical Radiation Sciences, University of Sydney (Part-time)

2003-present	Lecturer (SPECT & PET): ANZAPNM Basic Sciences Course for Advanced Medical Trainees
2006-present	Associate Professor in Physics, Discipline of Medical Radiation Sciences, University of Sydney (Part-time)
Sep 2008:	Lecturer (Physics): *PET and SPECT with CT* course, RIAP, University of Sydney
Nov 2008:	Lecturer (Physics): *Foundations of PET/CT* course, RIAP, University of Sydney
Jun 2009:	Lecturer (Physics): *IAEA Regional Training Course in Image Processing*, IAEA, Blomfontein, RSA

Student Supervision

1992	Nicholas McGilvray, Department of Computing Science, University of Sydney, *BSc (Hons)* Thesis title: *"Computer Visualisation of Human Local Cerebral Blood Flow"*
1993	Kevin Ho-Shon, Department of Medicine, University of Sydney, *MB BS* 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"*
1994	Panos Anastasopoulos, Department of Medical Physics, University of Surrey, *MSc* Thesis title: *"An Analysis of Noise Propagation in 2D and 3D PET Reconstructions"*
1995	Eleftherios Livieratos, Department of Medical Physics, University of Surrey, *MSc* Thesis title: *"Optimisation of Performance Parameters for a New Rotating PET Scanner"*
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"*
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"*
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"*
1996-2002	Eleftherios Livieratos, Department of Physics, University of Surrey, *PhD* Thesis title: "*Improvements in Quantification of High Resolution Cardiac 3D Positron 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: "*Multi-modality Parametric Imaging*"
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*"
2004-	Daryl Gibson, School of Physics, University of Sydney, *MSc*, Thesis title (provisional): "*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*"
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*"
2006-	Kathy Willowson, Institute of Medical Physics, School of Physics, University of Sydney, *PhD*, Thesis title (provisional): "*CT-based Quantitative Single Photon Emission Computed Tomography (SPECT)*"
2007	Kelly Braun, Institute of Medical Physics, University of Sydney, *MMedPhys*, Thesis title: *Use of polymer gels for radionuclide dosimetry*

LOCAL, NATIONAL and INTERNATIONAL MEETING INVOLVEMENT

1993	International Scientific Committee member, 2nd International Meeting on Fully Three-Dimensional Image Reconstruction in Radiology and Nuclear Medicine (Snowbird, Utah, USA)
1994	Track Chair (Physics): Pre-Congress Symposium of World Federation of Nuclear Medicine and Biology (Cairns, AUS)
1995	Local and Scientific Organising Committee member, Editor of Proceedings, Brain PET '95 (Oxford, UK)
1996-2002	Co-Chair, UK PET Special Interest Group; 4 meetings per year in Central London (see *www pet.umds.ac.uk/UKPET*)
1997	International Scientific Committee member, 4th International Meeting on Fully Three-Dimensional Image Reconstruction in Radiology and Nuclear Medicine (Pittsburgh, PA, USA)
1999	International Scientific Committee member, 5th International Meeting on Fully Three-Dimensional Image Reconstruction in Radiology and Nuclear Medicine (Egmond-aan-Zee, Netherlands)

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)
2002 Convenor, ANZSNM/ACPSEM Physics Workshop, "*Advances in SPECT*", University of Sydney, Dec 12, 2003
2004-06 Member, Scientific Research Meeting Organising Committee, Royal North Shore Research Committee
2006 Convenor, ANZSNM/ACPSEM Physics Workshop, "*Introducing CT into Nuclear Medicine*", University of Sydney, Dec 8, 2006
2007 Organiser of one day symposium on *Monte Carlo Simulation in GATE* (Institute of Medical Physics, University of Sydney)
2011 Co-Convenor, ANZSNM Annual Scientific Meeting, Darwin, July 2011

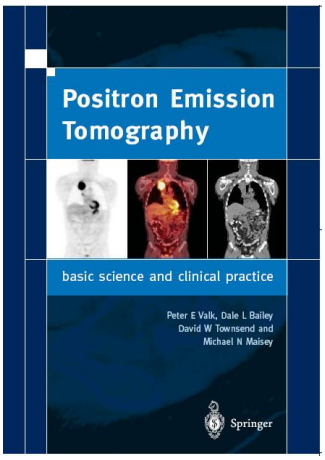
MEDIA CONTRIBUTIONS

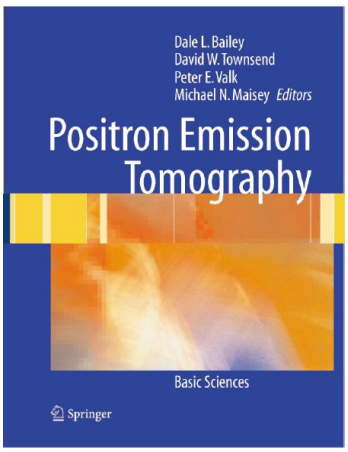
OpEd, Sydney Morning Herald, 21/11/2006: "*Change the fuel for a happier reaction*" - opinion piece on thorium-based nuclear power generation
Catalyst, ABC TV, 05/06/2008: "*Meet Dale Bailey*" – feature on physics/nuclear medicine and relationship to creativity and problem-solving (see http://www.abc.net.au/catalyst/stories/2266157.htm)

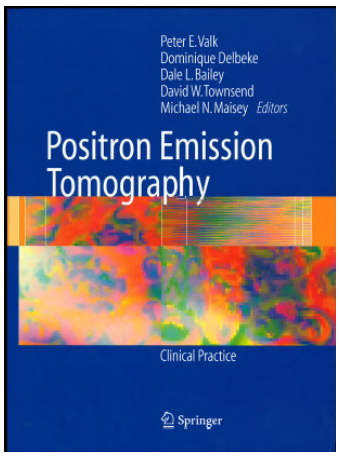
PUBLICATIONS

BOOKS, BOOK CHAPTERS

1 **Bailey DL** and Parker JA: Single Photon Emission Computed Tomography. *Nuclear Medicine in Clinical Diagnosis and Treatment* Murray IPC, Ell PJ Edinburgh: Churchill-Livingstone, 2: 1315-1326, 1995
2 Myers R, Cunningham VJ, **Bailey DL** and Jones T: Quantification of Brain Function with PET. San Diego: Academic Press, 1: 1996
3 **Bailey DL**: Quantitative Procedures in 3D PET. *The Theory and Practice of 3D PET* Bendriem B, Townsend DW Dordrecht: Kluwer Academic, 1: 55-109, 1998
4 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* Townsend DW, Bendriem B The Netherlands: Kluwer Academic, 150-154, 1998
5 **Bailey DL**: Recent Trends in PET Camera Designs. *Positron Emission Tomography: A Critical Assessment of Recent Trends* Gulyás B, Müller-Gärtner HW Debrecen, Hungary: Kluwer, 3/51: 45-56, 1998
6 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* Baum GL, Priel Z, Roth Y, Liron N, Ostfeld E New York: Marcell Dekker, Inc., 265-280, 1998
3 **Bailey DL**: Quantitative Procedures in 3D PET. *The Theory and Practice of 3D PET* Bendriem B, Townsend DW Dordrecht: Kluwer Academic, 1: 55-109, 1998
7 **Bailey DL** and Parker JA: Single photon emission computed tomography. *Nuclear Medicine in Clinical Diagnosis and Treatment* Murray IPC, Ell PJ London: Churchill Livingstone, 2: 1589-1601, 1998
8 **Bailey DL**: Image Registration in Nuclear Medicine. *Medical Image Registration* Hajnel J, Hill DLJ, Hawkes DJ London: CRC Press, 233-252, 2001
9 **Bailey DL**: Spatial Inaccuracies in Emission Tomography. *Medical Image Registration* Hajnel J, Hill DLJ, Hawkes DJ London: CRC Press, 97-103: 2001
10 Valk PE, **Bailey DL**, Townsend DW and Maisey MN: Positron Emission Tomography: Basic Science & Clinical Practice. London: Springer-Verlag, 884pp, 2003; http://www.springer.com/west/home/medicine/nuclear+medicine?SGWID=4-10072-22-2178752-0 (accessed 06/08/2007)
11 **Bailey DL**: Attenuation Correction in PET and SPECT. *Clinical Nuclear Medicine* Maisey M, Britten K, Cook G, Chengazi V London: Hodder Arnold, 869-879, 2006
12 **Bailey DL**, Townsend DW, Valk PE and Maisey MN: Positron Emission Tomography: Basic Science. London: Springer-Verlag, 382pp, 2005; http://www.springer.com/west/home/medicine/nuclear+medicine?SGWID=4-10072-22-32101957-0 (accessed 06/08/2007)
13 Valk PE, Delbeke D, **Bailey DL**, Townsend DW and Maisey MN: Positron Emission Tomography: Clinical Practice. London: Springer-Verlag, 482pp, 2006; http://www.springer.com/west/home/medicine/nuclear+medicine?SGWID=4-10072-22-52096718-0 (accessed 06/08/2007)







JOURNAL ARTICLES

Pre-1990

1 **Bailey DL**, Hutton BF and Walker PJ: Improved SPECT using simultaneous emission and transmission tomography. *J Nucl Med* 28: 844-851, 1987

2 Hutton BF, Jayasinghe MA, **Bailey DL** and Fulton RR: Artefact reduction in dual-radionuclide subtraction studies. *Phys Med Biol* 32: 477-493, 1987

3 **Bailey DL** and Hutton BF: Simultaneous Emission and Transmission Tomography. *Information Processing in Medical Imaging: Xth IPMI International Conference* Deconinck F, Viergever M Utrecht: Plenum, 559-575, 1987

4 Butler SP, **Bailey DL**, McLaughlin AF, Khafagi FA and Stephens FO: SPECT Evaluation of Arterial Perfusion in Regional Chemotherapy. *J Nucl Med* 29: 593-598, 1988

5 Phipps PR, Borham PW, Gonda I and **Bailey DL**: A rapid method for the evaluation of diagnostic radioaerosol delivery systems. *Eur J Nucl Med* 13: 183-186, 1987

6 Phipps PR, Gonda I, **Bailey DL**, Borham PW, Bautovich GJ and Anderson SD: Comparison of Planar and Tomographic Scintigraphy to Measure the Penetration Index of Inhaled Aerosols. *Amer Rev Resp Dis* 139: 1516-1523, 1989

7 **Bailey DL**, Fulton RR, Jackson CB, Hutton BF and Morris JG: Dynamic Geometric Mean Studies Using a Single Headed Rotating Gamma Camera. *J Nucl Med* 30: 1865-1869, 1989

8 Cradduck TD, **Bailey DL**, Hutton BF, Deconinck F, Busemann-Sokole E, Bergmann H and Noelpp U: A Standard Protocol for the Exchange of Nuclear Medicine Image Files. *Nucl Med Comm* 10: 703-713, 1989

1991-2000

9 **Bailey DL**, Jones T and Spinks TJ: A Method for Measuring the Absolute Sensitivity of Positron Emission Tomographic Scanners. *Eur J Nucl Med* 18: 374-379, 1991

10 **Bailey DL**, Jones T, Spinks TJ, Gilardi M-C and Townsend DW: Noise equivalent count measurements in a neuro-PET scanner with retractable septa. *IEEE Trans Med Imag* 10: 256-260, 1991

11 Michel C, Bol A, Spinks TJ, Townsend DW, **Bailey DL**, Grootoonk S and Jones T: Assessment of response function in two PET scanners with and without interplane septa. *IEEE Trans Med Imag* 10: 240-248, 1991

12 Townsend DW, Geissbühler A, Defrise M, Hoffman EJ, Spinks TJ, **Bailey DL**, Gilardi M-C and Jones T: Fully Three-Dimensional Reconstruction for a PET Camera with Retractable Septa. *IEEE Trans Med Imag* 10: 505-512, 1991

13 Cunningham VJ, Pike VW, **Bailey DL**, Freemantle CAJ, Page BC, Jones AKP, Kensett MJ, Bateman D, Luthra SK and Jones T: A Method for Studying Pharmacokinetics at Picomolar Drug Concentrations. *Brit J Clin Pharmacol* 32: 167-172, 1991

14 Defrise M, Townsend DW, **Bailey DL**, Geissbühler A, Michel C and Jones T: A normalization technique for 3D PET data. *Phys Med Biol* 36: 939-952, 1991

15 Meikle SR, Hutton BF, **Bailey DL**, Fulton RR and Schindhelm K: SPECT scatter correction in non-homogeneous media. *Information Processing in Medical Imaging: XIIth IPMI International Conference* Colchester ACF, Hawkes DJ Berlin: Springer-Verlag, 34-44, 1991

16 Rajeswaran S, Hume SP, Cremer JE, Young J and **Bailey DL**: Dynamic monitoring of [11C]diprenorphine in rat brain using a prototype positron imaging device. *J Neurosci Meth* 40: 223-232, 1991

17 Townsend DW, Defrise M, Geissbühler A, Spinks TJ, **Bailey DL**, Gilardi M-C and Jones T: Normalisation and reconstruction of PET data acquired by a multi-ring camera with septa retracted. *Med Prog Through Tech* 17: 22-28, 1991

18 **Bailey DL**: 3D Acquisition and Reconstruction in Positron Emission Tomography. *Ann Nucl Med* 6: 123 - 130, 1992

19 Spinks TJ, Jones T, **Bailey DL**, Townsend DW, Grootoonk S, Bloomfield PM, Gilardi M-C, Sipe B and Reed J: Physical performance of a positron tomograph for brain imaging with retractable septa. *Phys Med Biol* 37: 1637-1655, 1992

20 Rajeswaran S, **Bailey DL**, Hume SP, Townsend DW, Geissbühler A, Young J and Jones T: 2-D and 3-D Imaging of Small Animals and the Human Radial Artery with a High-Resolution Detector for PET. *Trans Med Imag* MI-11: 386-391, 1992

21 Ramsay SC, Adams L, Murphy K, Corfield DR, Grootoonk S, **Bailey DL**, Frackowiak RSJ and Guz A: Regional cerebral blood flow during volitional expiration in man: A comparison with volitional inspiration. *J Physiol* 461: 85-101, 1993

22 Townsend DW, Wensveen M, Byars LG, Geissbühler A, Tochon-Danguy HJ, Christin A, Defrise M, **Bailey DL**, Grootoonk S, Donath A and Nutt R: A Rotating PET Scanner Using BGO Block Detectors: Design, Performance and Applications. *J Nucl Med* 34: 1367-1376, 1993

23 Tan P, **Bailey DL**, Meikle SR, Eberl S, Fulton RR and Hutton BF: A scanning line source for simultaneous emission and transmission measurements in SPECT. *J Nucl Med* 34: 1752-1760, 1993

24 Meikle SR, Hutton BF and **Bailey DL**: A transmission dependent method for scatter correction in SPECT. *J Nucl Med* 35: 360-367, 1994

25 **Bailey DL**, Zito F, Gilardi M-C, Savi AR, Fazio F and Jones T: Performance comparison of a state-of-the-art neuro-SPET scanner and a dedicated neuro-PET scanner. *Eur J Nucl Med* 21: 381-387, 1994

26 **Bailey DL**, Jones T, Watson JDG, Schnorr L and Frackowiak RSJ: Activation studies in 3D PET: evaluation of true signal gain. *Quantification of Brain Function: Tracer Kinetics and Image Analysis in Brain PET* Uemera K, Lassen N, Jones T, Kanno I Excerpta Medica, 341-350, 1993

27 **Bailey DL** and Meikle SR: A convolution-subtraction scatter correction method for 3D PET. *Phys Med Biol* 39: 411-424, 1994

28 Regnis JA, Robinson M, **Bailey DL**, Cook P, Hooper P, Chan H-K, Gonda I, Bautovich GJ and Bye PTP: Mucociliary Clearance in Patients with Cystic Fibrosis and in Normal Subjects. *Am J Respir Crit Care Med* 150: 66-71, 1994

29 Phipps PR, Gonda I, Anderson SD, **Bailey DL** and Bautovich GJ: Regional Deposition of Saline Aerosols of Different Tonicities in Normal and Asthmatic Subjects. *Eur Respir J* 7: 1474-1482, 1994

30 Meikle SR, **Bailey DL**, Hooper PK, Eberl S, Hutton BF, Jones WF and Fulham MJ: Simultaneous Emission and Transmission Measurements for Attenuation Correction in Whole-Body PET. *J Nucl Med* 36: 1680-1688, 1995

31 Meikle SR, Hutton BF, **Bailey DL**, Hooper PK and Fulham MJ: Accelerated EM reconstruction in total body PET: potential for improving tumour detectability. *Phys Med Biol* 39: 1689-1704, 1995

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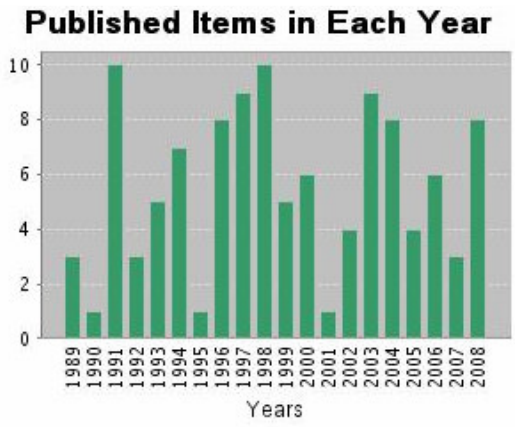
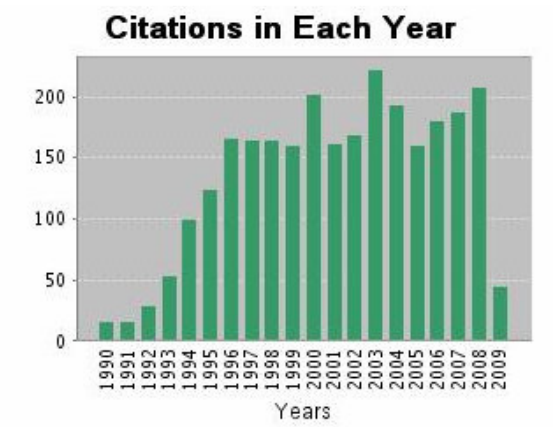
SUMMARY of CAREER PUBLICATION HISTORY





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As at: 29/04/09