**Terry Jones Scientific Publications October 2021**

Scientific Publications

Over 300 scientific publications with 35,556 citations, i10 index 270 and a h-index of 97.

Google Scholar Profile:

TERRY JONES

UC Davis

PET

Click Profile

Reviews:

### [Total-Body PET Imaging in Infectious Diseases](https://www.pet.theclinics.com/article/S1556-8598(20)30078-X/abstract), [TJ Henrich](https://scholar.google.com/citations?user=g8g2SFAAAAAJ&hl=en&oi=sra), [T Jones](https://scholar.google.com/citations?user=jlNygi0AAAAJ&hl=en&oi=sra), D Beckford-Vera, [PM Price](https://scholar.google.com/citations?user=5WMBJWQAAAAJ&hl=en&oi=sra) ,HF. Van Brocklin, PET Clinics: 2020; 16,1, 89-97

1. Total Body PET: maximizing sensitivity to create new opportunities for clinical research and patient care, Simon R. Cherry, Terry Jones, Joel S. Karp, Jinyi Qi, William W. Moses, Ramsey D. J Nuc Med; 2018; 59:3–12

​

1. History and future technical innovation in positron emission tomography, Terry Jones, David Townsend, J. Med. Imag. 4(1), 011013 (Jan-March 2017).
2. History of Nuclear Medicine and Molecular Imaging. Budinger T.F., and Jones T. In: Anders Brahme, editor-in-chief. Comprehensive Biomedical Physics, Vol 1, Amsterdam: Elsevier; September 2014. p. 1-37
3. The development, past achievements and future directions of brain PET. Jones T and Rabiner E A. J Cerebral Blood Flow and Metabolism 2012 32, 1426-1454. 30th Anniversary Issue of the Journal
4. Oxygen extraction, oxygen metabolism and positron emission tomography: Historical perspective and impact on basic and clinical neuroscience. Baron J C and Jones T Neuroimage 2012; 61, 492-504. 20th Anniversary Issue of the Journal
5. The development and experimental medicine applications of PET in oncology a historical perspective. Jones T and Price P Lancet Oncology 2012; 13, e116-125
6. [The History of Brain Imaging in the Cyclotron Unit using PET: A Personal Methodological Perspective by Terry Jones. Written at the time of the MRC Cyclotron Unit’s 50th anniversary in 2005](http://docs.wixstatic.com/ugd/4fcdc3_61bf550e54e2444287d7468eae19fdca.pdf)
7. [Historical development of functional in vivo studies using positron-emitting tracers](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=kQHTMKgAAAAJ&cstart=200&pagesize=100&citation_for_view=kQHTMKgAAAAJ:PYBJJbyH-FwC).

T Jones Positron emission tomography: basic science and clinical practice, Eds Valk PE, Bailey DL, Townsend DW, Maisey MN. Springer-Verlag 2003: 3-41

Recent Publications:

1. Leung E, Berg E, Omidvari N, Spencer B, Li E, Abdelhafez Y; Schmall J, Liu W, He L, Tang S, Liu Y, Dong Yun, Jones T, Cherry S, Badawi R Quantitative accuracy in total-body imaging using the uEXPLORER PET/CT scanner Phys. Med. Biol. 66 (2021) 205008
2. [Performance evaluation of the uEXPLORER Total-body PET/CT scanner based on NEMA NU 2-2018 with additional tests to characterize long axial field-of-view PET scanners](http://jnm.snmjournals.org/content/early/2020/10/02/jnumed.120.250597?papetoc). Benjamin A. Spencer, Eric Berg, Jeffrey P. Schmall, Negar Omidvari, Edwin K. Leung, Yasser G. Abdelhafez, Songsong Tang, Zilin Deng, Yun Dong, Yang Lv, Jun Bao, Weiping Liu, Hongdi Li, Terry Jones, Ramsey D. Badawi and Simon R. Cherry: J Nuc Med 2021; 62:861–870
3. [Total-Body Quantitative Parametric Imaging of Early Kinetics of FDG](http://jnm.snmjournals.org/content/early/2020/09/18/jnumed.119.238113?papetoc) Tao Feng, Yizhang Zhao, Hongcheng Shi, Xuezhu Zhang, Guobao Wang, Ramsey Derek Badawi, Patricia M Price, Simon R. Cherry and Terry Jones J Nuc Med May 2021, 62 (5) 738-744
4. Design of the NeuroEXPLORER, a next-generation ultra-high performance human brain PET imager Richard Carson, Eric Berg, Ramsey Badawi, Simon Cherry, Junwei Du, Tao Feng, Kathryn Fontaine, Paul Gravel, Ansel Hillmer, Praveen Honhar, Jocelyn Hoye, Lingzhi Hu, Terry Jones, Edwin Leung, Tiantian Li, Chi Liu, Heather Liu, Yihuan Lu, Stan Majewski, Tim Mulnix, Jeffrey Schmall, Aaron Selfridge, Takuya Toyonaga, Jinyi Qi and Hongdi Li .J Nuc Med May 2021, 62 (supplement 1) 1120
5. Emerging applications and grand challenges Terry Jones: in Meikle, Steven et al “Quantitative PET in the 2020s: A Roadmap" Phys. Med. Biol. 66 (2021) 06RM01 P11-14
6. Application of Annihilation Coincidence Detection to Transaxial Reconstruction Tomography David W. Townsend and Terry Jones; J Nuc Med December 1, 2020, 61 (Supplement 2) 42S-56S; DOI
7. **T**otal-Body Dynamic PET of Metastatic Cancer: First Patient Results. Guobao Wang, Mamta Parikh, Lorenzo Nardo, Yang Zuo, Yasser Abdelhafez, Jinyi Qi, Terry Jones, Patricia Price, Simon Cherry, Chong-Xian Pan, and Ramsey Badawi J Nucl Med 2020 61:208
8. Total Body PET Imaging from Mice to Humans. Jones T (2020) Front. Phys. 8:77.: 10.3389/fphy.2020.00077
9. First human imaging studies with the EXPLORER total-body PET scanner. Badawi RD, Shi H, Hu P, Chen S, Xu Y, Price PM, Ding Y, Spencer BA, Nardo L, Liu W, Bao J, Jones T, Li H, Cherry SR. *J Nucl Med* 2019; 60: 299-303
10. Total-body metabolism, chemistry and physiology: PET for fetus to adults Tom Budinger, Terry Jones, Qiyu Peng, Siwei Xie Presentation June 2018
11. Total-body imaging: Transforming the role of positron emission tomographySimon R. Cherry, Ramsey D. Badawi, Joel S. Karp, [...], William W. Moses, Terry Jones • Mar 2017 • Science Translational Medicine [Sci Transl Med. 2017 Mar 15; 9(381): eaaf6169.](https://www.ncbi.nlm.nih.gov/entrez/eutils/elink.fcgi?dbfrom=pubmed&retmode=ref&cmd=prlinks&id=28298419)
12. Ultra-Staging to Unmask the Prescribing of Adjuvant Therapy in Cancer Patients: The Future Opportunity to Image Micrometastases Using Total-Body F-18-FDG PET Scanning. Patricia M Price, Ramsey D Badawi, Simon R Cherry, Terry Jones J Nucl Med. 2014 Apr; 55(4): 696–697.
13. The Potential for Low-Dose Functional Studies in Maternal-Fetal Medicine Using PET/MR Imaging Terry Jones, Thomas F Budinger J Nucl Med November 1, 2013 vol. 54 no. 11 2016-2017
14. P-glycoprotein expression and function in patients with temporal lobe epilepsy: A case-control study Maria Feldmann, Marie-Claude Asselin, Joan Liu, [...], Shaonan Wang, Matthias J Koepp, Lancet neurology [Volume 12, Issue 8](https://www.sciencedirect.com/science/journal/14744422/12/8), August 2013, Pages 777-785
15. Realizing the Full Potential of PET for Measuring the Biodistribution of Novel Anticancer Agents Terry Jones, Pat Price, Bertrand Tavitian J Nucl Med September 1, 2011 vol. 52 no. 9 Page 1500
16. Molecular Imaging and Pharmacokinetic Analysis of Carbon-11 Labeled Antisense Oligonucleotide LY2181308 in Cancer Patients Azeem Saleem, Julian C Matthews, Malcolm Ranson, [...], Sophie Callies, Patricia M Price [Theranostics](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3139194/). 2011; 1: 290–301.

1. Bias in iterative reconstruction of low-statistics PET data: Benefits of a resolution model M D Walker, M-C Asselin, P J Julyan, M Feldmann, J C Matthews [Physics in Medicine & Biology](http://iopscience.iop.org/journal/0031-9155), [Volume 56](http://iopscience.iop.org/volume/0031-9155/56), [Number 4](http://iopscience.iop.org/issue/0031-9155/56/4) 2011
2. Principles of PET in Cancer Treatment for the Assessment of Chemotherapy and Radiotherapy Response and for Radiotherapy Treatment Planning, Natalie Charnley, Terry Jones, Pat Price [Clinical PET-CT in Radiology](https://link.springer.com/book/10.1007/978-0-387-48902-5) pp 157-162 Dec 2010
3. Development and validation of a variance model for dynamic PET: Uses in fitting kinetic data and optimizing the injected activity M D Walker, J C Matthews, M-C Asselin, [...], C C Watson, T Jones [Physics in Medicine & Biology](http://iopscience.iop.org/journal/0031-9155), [Volume 55](http://iopscience.iop.org/volume/0031-9155/55), [Number 22](http://iopscience.iop.org/issue/0031-9155/55/22) Oct 2010
4. Optimization of the Injected Activity in Dynamic 3D PET: A Generalized Approach Using Patient-Specific NECs as Demonstrated by a Series of O-15-H2O Scans Matthew D Walker, Julian C Matthews, Marie-Claude Asselin, [...], Azeem Saleem, Terry Jones J Nucl Med 2009; 50:1409–141
5. Blood flow and V-d (water): both biomarkers required for interpreting the effects of vascular targeting agents on tumour and normal tissue Barbara Kötz, Catharine West, Azeem Saleem, Terry Jones, Patricia Price Mol Cancer Ther 2009;8(2):303–9

|  |  |  |
| --- | --- | --- |
| Highest Cited Publications; in order of citation within the h-index of 97: |  |  |
| [Evidence for striatal dopamine release during a video game](javascript:void(0))  MJ Koepp, RN Gunn, AD Lawrence, VJ Cunningham, A Dagher, T Jones, ...  Nature 393 (6682), 2661 1998 cited by 1626  [Quantitative measurement of regional cerebral blood flow and oxygen metabolism in man using 15O and positron emission tomography: theory, procedure, and normal values.](javascript:void(0))  RS Frackowiak, GL Lenzi, T Jones, JD Heather  Journal of computer assisted tomography 4 (6), 727-736 1980 cited by 1542  [Cerebral blood flow, blood volume and oxygen utilization: normal values and effect of age](javascript:void(0))  KL Leenders, D Perani, AA Lammertsma, JD Heather, P Buckingham, ...  Brain 113 (1), 27-47 1990 cited by 1174  [In-vivo measurement of activated microglia in dementia](javascript:void(0))  A Cagnin, DJ Brooks, AM Kennedy, RN Gunn, R Myers, FE Turkheimer, ...  The Lancet 358 (9280), 461-467 2001 cited by 1138  [A functional neuroanatomy of hallucinations in schizophrenia](javascript:void(0))  DA Silbersweig, E Stern, C Frith, C Cahill, A Holmes, S Grootoonk, ...  Nature 378 (6553), 176 1995 cited by 1129  [Patterns of cerebral blood flow in schizophrenia](javascript:void(0))  PF Liddle, KJ Friston, CD Frith, SR Hirsch, T Jones, RSJ Frackowiak  The British Journal of Psychiatry 160 (2), 179-18 1992 cited by 1078  Regional cerebral oxygen supply and utilization in dementia: a clinical and physiological study with oxygen-15  and positron emission tomography  RSJ Frackowiak, C Pozzilli, NJ Legg, GHDU Boulay, J Marshall, ...  Brain 104 (4), 753-778 1981 cited by 855  [Evaluation of cerebral perfusion reserve in patients with carotid-artery occlusion](javascript:void(0))  JM Gibbs, KL Leenders, RJS Wise, T Jones  The Lancet 323 (8370), 182-186 1984 cited by 727  [The peripheral benzodiazepine binding site in brain in multiple sclerosis: Quantitative *in vivo* imaging of microglia as a measure of disease activity](javascript:void(0))  RB Banati, J Newcombe, RN Gunn, A Cagnin, F Turkheimer, F Heppner, ...  Brain 123 (11), 2321-2337 2000 cited by 688  [Spectral analysis of dynamic PET studies](javascript:void(0))  VJ Cunningham, T Jones  Journal of Cerebral Blood Flow & Metabolism 13 (1), 15-23 1993 cited by 556  [Serial observations on the pathophysiology of acute stroke: the transition from ischaemia to infarction as reflected in regional oxygen regional regional oxygen extraction](javascript:void(0))  RJS Wise, S Bernardi, RSJ Frackowiak, NJ Legg, T Jones  Brain 106 (1), 197-222 1983 cited by 523  [Decreased brain GABAA-benzodiazepine receptor binding in panic disorder: preliminary results from a quantitative udy](javascript:void(0))  PET study AL Malizia, VJ Cunningham, CJ Bell, PF Liddle, T Jones, DJ Nutt  Archives of general psychiatry 55 (8), 715-720 1998 cited by 484  [Cerebral oxygen metabolism and blood flow in human cerebral ischemic infarction](javascript:void(0))  GL Lenzi, RSJ Frackowiak, T Jones  Journal of Cerebral Blood Flow & Metabolism 2 (3), 321-335 1982 cited by 482  [Brain dopamine metabolism in patients with Parkinson's disease measured with positron emission tomography.](javascript:void(0))  KL Leenders, AJ Palmer, N Quinn, JC Clark, G Firnau, ES Garnett, ...  Journal of Neurology, Neurosurgery & Psychiatry 49 (8), 853-860 1986 cited by 475  [The nigrostriatal dopaminergic system assessed in vivo by positron emission tomography in healthy volunteer subjects volunteer subjects and patients with Parkinson's disease](javascript:void(0))  KL Leenders, EP Salmon, P Tyrrell, D Perani, DJ Brooks, H Sager, ...  Archives of neurology 47 (12), 1290-1298 1990 cited by 445  [Correction for the presence of intravascular oxygen-15 in the steady-state technique for measuring regional oxygen extraction ratio in the extraction ratio in the brain: 1. Description of the method](javascript:void(0))  AA Lammertsma, T Jones  Journal of Cerebral Blood Flow & Metabolism 3 (4), 416-424 1093 cited by 429  [The continuous inhalation of oxygen-15 for assessing regional oxygen extraction in the brain of man](javascript:void(0))  T Jones, DA Chesler, MM Ter-Pogossian  The British journal of radiology 49 (580), 339-343 1976 cited by 365  [Glucose utilization in vivo by human pulmonary neoplasms](javascript:void(0))  KB Nolop, CG Rhodes, LH Brudin, RP Beaney, T Krausz, T Jones, ...  Cancer 60 (11), 2682-2689 1987 cited by 347  [Physical performance of a positron tomograph for brain imaging with retractable septa](javascript:void(0))  TJ Spinks, T Jones, DL Bailey, DW Townsend, S Grootoonk, ...  Physics in Medicine & Biology 37 (8), 16371992 cited by 316  [Physical performance of the latest generation of commercial positron scanner](javascript:void(0))  TJ Spinks, T Jones, MC Gilardi, JD Heather  IEEE Transactions on Nuclear Science 35 (1), 721-725 1988 cited by 311  [Non-invasive quantification of regional myocardial blood flow in coronary artery disease with oxygen-15-labeled carbon dioxide inhalation and on dioxide and positron emission tomography.](javascript:void(0))  LI Araujo, AA Lammertsma, CG Rhodes, EO McFalls, H Iida, E Rechavia, ...  Circulation 83 (3), 875-885 1991 cited by 304  [Increased uptake of 18F-fluorodeoxyglucose in postischemic myocardium of patients with exercise-induced angina.](javascript:void(0))  P Camici, LI Araujo, T Spinks, AA Lammertsma, JC Kaski, MJ Shea, ...  Circulation 74 (1), 81-88 1986 cited by 294  [Total-body PET: maximizing sensitivity to create new opportunities for clinical research and patient care](https://scholar.google.co.uk/citations?view_op=view_citation&hl=en&user=kQHTMKgAAAAJ&cstart=20&pagesize=80&citation_for_view=kQHTMKgAAAAJ:NaGl4SEjCO4C)  SR Cherry, T Jones, JS Karp, J Qi, WW Moses, RD Badawi  Journal of Nuclear Medicine 59 (1), 3-12 cited in 289  [Central nervous pathways mediating angina pectoris](javascript:void(0))  SD Rosen, E Paulesu, CD Frith, RSJ Frackowiak, GJ Davies, T Jones, ...  The Lancet 344 (8916), 147-150 1994 cited by 279  [Thalamic microglial activation in ischemic stroke detected in vivo by PET and [11C] PK11195](javascript:void(0))  S Pappata, M Levasseur, RN Gunn, R Myers, C Crouzel, A Syrota, ...  Neurology 55 (7), 1052-1054 2000 cited by 268  [Pharmacological constraints associated with positron emission tomographic scanning of small laboratory animals](javascript:void(0))  SP Hume, RN Gunn, T Jones  European journal of nuclear medicine 25 (2), 173-176 1998 cited by 257  [Fluorine-18 deoxyglucose uptake in sarcoidosis measured with positron emission tomography](javascript:void(0))  LH Brudin, SO Valind, CG Rhodes, CF Panting, M Sweatmang, T Jones, ...  European journal of nuclear medicine 21 (4), 297-305 1994 cited by 252  [15O positron emission tomographic scanning in predominantly never-treated acute schizophrenic patients](javascript:void(0))  G Sheppard, R Manchanda, J Gruzelier, SR Hirsch, R Wise, R Frackowiak, ...  The Lancet 322 (8365-8366), 1448-1452 1983 cited by 250  [Assessment of regional ventilation by continuous inhalation of radioactive krypton-81m.](javascript:void(0))  F Fazio, T Jones  Br Med J 3 (5985), 673-676 1975 cited by 246  [Assessment of pharmacodynamic vascular response in a phase I trial of combretastatin A4 phosphate](javascript:void(0))  HL Anderson, JT Yap, MP Miller, A Robbins, T Jones, PM Price  Journal of Clinical Oncology 21 (15), 2823-2830 2003 cited by 238  [The design and physical characteristics of a small animal positron emission tomograph](javascript:void(0))  PM Bloomfield, S Rajeswaran, TJ Spinks, SP Hume, R Myers, S Ashworth, ...  Physics in Medicine & Biology 40 (6), 1105 1995 cited by 230  [The design and implementation of a motion correction scheme for neurological PET](javascript:void(0))  PM Bloomfield, TJ Spinks, J Reed, L Schnorr, AM Westrip, L Livieratos, ...  Physics in Medicine & Biology 48 (8), 959 2003 cited by 230  I[n vivo disturbance of the oxidative metabolism of glucose in human cerebral gliomas](javascript:void(0))  CG Rhodes, RJS Wise, JM Gibbs, RSJ Frackowiak, J Hatazawa, ...  Annals of Neurology: Official Journal of the American Neurological 1983 cited by 229  [First human imaging studies with the EXPLORER total-body PET scanner](https://scholar.google.co.uk/citations?view_op=view_citation&hl=en&user=kQHTMKgAAAAJ&cstart=20&pagesize=80&citation_for_view=kQHTMKgAAAAJ:X0DADzN9RKwC)  RD Badawi, H Shi, P Hu, S Chen, T Xu, PM Price, Y Ding, BA Spencer, ...  Journal of Nuclear Medicine 60 (3), 299-303 cited in 226  [Silent ischemia as a central problem: regional brain activation compared in silent and painful myocardial ischemia](javascript:void(0))  SD Rosen, E Paulesu, P Nihoyannopoulos, D Tousoulis, RSJ Frackowiak, ...  Annals of Internal Medicine 124 (11), 939-949 1996 cited by 223  [Use of the left ventricular time-activity curve as a non-invasive input function in dynamic oxygen-15-water positron emission tomography](javascript:void(0))  H Iida, CG Rhodes, R de Silva, LI Araujo, PM Bloomfield, AA Lammertsma, ...  Journal of Nuclear Medicine 33 (9), 1669-1677 1992 cited by 223  [Positron emission tomography for in-vivo measurement of regional blood flow, oxygen utilisation, and blood volume in p in patients with breast carcinoma](javascript:void(0))  RP Beaney, T Jones, AA Lammertsma, CG Mckenzie, KE Halnan  The Lancet 323 (8369), 131-134 1984 cited by 222  [Fully three-dimensional reconstruction for a PET camera with retractable septa](javascript:void(0))  DW Townsend, A Geissbuhler, M Defrise, EJ Hoffman, TJ Spinks, ...  IEEE transactions on medical imaging 10 (4), 505-512 1991 cited by 221  [Detection of Thirty-Second Cognitive Activations in Single Subjects with Positron Emission Tomography: A New Low-Dose H215O Regional dose Cerebral Blood Flow …](javascript:void(0))  DA Silbersweig, E Stern, CD Frith, C Cahill, L Schnorr, S Grootoonk, ...  Journal of Cerebral Blood Flow & Metabolism 13 (4), 617-629 1993 cited by 216  [Measurements of blood flow and exchanging water space in breast tumors using positron emission tomography: a rapid and non-invasive rapid and dynamic method](javascript:void(0))  CBJH Wilson, AA Lammertsma, CG McKenzie, K Sikora, T Jones  Cancer research 52 (6), 1592-1597 1992 cited by 215  [11C](R)-PK11195 positron emission tomography imaging of activated microglia in vivo in Rasmussen’s encephalitis](javascript:void(0))  RB Banati, GW Goerres, R Myers, RN Gunn, FE Turkheimer, ...  Neurology 53 (9), 2199-21991999 cited by 214  [*In vivo* visualization of activated glia by[11C] (*R*)-PK11195-PET following herpes encephalitis reveals projected neuronal damage beyond the neuronal damage beyond the primary focal lesion](javascript:void(0))  A Cagnin, R Myers, RN Gunn, AD Lawrence, T Stevens, GW Kreutzberg, ...  Brain 124 (10), 2014-2027 2001 cited by 214  [Myocardial tissue fraction—correction for partial volume effects and measure of tissue viability](javascript:void(0))  H Iida, CG Rhodes, R de Silva, Y Yamamoto, LI Araujo, A Maseri, T Jones  Journal of Nuclear Medicine 32 (11), 2169-2175 1991 cited 208  [Benzodiazepine Receptor Quantification in vivo in Humans Using [11C]Flumazenil and PET: Application of the Steady-State Principle](javascript:void(0)) NA Lassen, PA Bartenstein, AA Lammertsma, MC Prevett, DR Turton, ...  Journal of Cerebral Blood Flow & Metabolism 15 (1), 152-165 1995 cited by 204  [Measurement of regional cerebral blood flow and oxygen utilisation in patients with cerebral tumours using 15O and positron emission positron emission tomography: Analytical …](javascript:void(0))  M Ito, AA Lammertsma, RJS Wise, S Bernardi, RSJ Frackowiak, ...  Neuroradiology 23 (2), 63-74 1982 cited by 196  [Alterations of regional cerebral blood flow and oxygen metabolism in Parkinson's disease](javascript:void(0))  LI Wolfson, KL Leenders, LL Brown, T Jones  Neurology 35 (10), 1399-1399 1985 cited by 194  [In vivo distribution of opioid receptors in man in relation to the cortical projections of the medial and lateral pain systems measured with positron emission tomography](javascript:void(0))  AKP Jones, LY Qi, T Fujirawa, SK Luthra, J Ashburner, P Bloomfield, ...  Neuroscience letters 126 (1), 25-2 1991 cited by 188  I[*n vivo* Measurement of Regional Cerebral Haematocrit Using Positron Emission Tomography](javascript:void(0))  AA Lammertsma, DJ Brooks, RP Beaney, DR Turton, MJ Kensett, ...  Journal of Cerebral Blood Flow & Metabolism 4 (3), 317-322 1984 cited by 187  [A theoretical study of the steady-state model for measuring regional cerebral blood flow & oxygen utilisation using oxygen-15.](javascript:void(0))  AA Lammertsma, T Jones, RS Frackowiak, GL Lenzi  Journal of computer assisted tomography 5 (4), 544-550 1981 cited by 186  [Combination of dynamic and integral methods for generating reproducible functional CBF images](javascript:void(0))  AA Lammertsma, VJ Cunningham, MP Deiber, JD Heather, ...  Journal of Cerebral Blood Flow & Metabolism 10 (5), 675-686 1983 cited by 176  [Demonstration of thalamic activation during typical absence seizures using H2 15O and PET](javascript:void(0))  MC Prevett, JS Duncan, T Jones, DR Fish, DJ Brooks  Neurology 45 (7), 1396-1402 1995 cited by 174  [Studies on regional cerebral oxygen utilisation and cognitive function in multiple sclerosis.](javascript:void(0))  DJ Brooks, KL Leenders, G Head, J Marshall, NJ Legg, T Jones  Journal of Neurology, Neurosurgery & Psychiatry 47 (11), 1182-1191 1984 cited by 171  [Changes in central opioid receptor binding in relation to inflammation and pain in patients with rheumatoid arthritis](javascript:void(0))  AKP Jones, VJ Cunningham, S Ha-Kawa, T Fujiwara, SK Luthra, S Silva, ...  Rheumatology 33 (10), 909-916 1994 cited by 170  [Physical characteristics of the ECAT EXACT3D positron tomograph](javascript:void(0))  TJ Spinks, T Jones, PM Bloomfield, DL Bailey, M Miller, D Hogg, ...  Physics in Medicine & Biology 45 (9), 2601 2000 cited by 168  [P-glycoprotein expression and function in patients with temporal lobe epilepsy: a case-control study](javascript:void(0))  M Feldmann, MC Asselin, J Liu, S Wang, A McMahon, J Anton-Rodriguez, ...  The Lancet Neurology 12 (8), 777-785 2013 cited in 167  [Correction for scatter in 3D brain PET using a dual energy window method](javascript:void(0))  S Grootoonk, TJ Spinks, D Sashin, NM Spyrou, T Jones  Physics in Medicine & Biology 41 (12), 2757 1996 cited by 164  [Quantitative measurement of regional extravascular lung density, positron emission and transmission tomography.](javascript:void(0))  CG Rhodes, P Wollmer, F Fazio, T Jones  Journal of computer assisted tomography 5 (6), 783-791 1981 cited by 157  [Correction for the presence of intravascular oxygen-15 in the steady-state technique for measuring regional oxygen extraction ratio in the extraction ration in the brain: 2. Results in normal subjects …](javascript:void(0))  AA Lammertsma, RJS Wise, JD Heather, JM Gibbs, KL Leenders, ...  Journal of Cerebral Blood Flow & Metabolism 3 (4), 425-431 1983 cited by 156  [Three-dimensional reconstruction of PET data from a multi-ring camera](javascript:void(0))  DW Townsend, T Sprinks, T Jones, A Geissbuhler, M Defrise, MC Gilardi, ...  IEEE Transactions on Nuclear Science 36 (1), 1056-1065 1984 cited by 156  [Cerebral decreases in opioid receptor binding in patients neuropathic pain measured by [11C] diprenorphine binding and PET](javascript:void(0))  AKP Jones, H Watabe, VJ Cunningham, T Jones  European Journal of Pain 8 (5), 479-485 2004 cited by 153  [Preoperative prediction of the outcome of coronary revascularization using positron emission tomography.](javascript:void(0))  R De Silva, Y Yamamoto, CG Rhodes, H Iida, P Nihoyannopoulos, ...  Circulation 86 (6), 1738-1742 1992 cited by 144  [A method for measuring the absolute sensitivity of positron emission tomographic scanners](javascript:void(0))  DL Bailey, T Jones, TJ Spinks  European journal of nuclear medicine 18 (6), 374-379 1991 cited by 139  [The role of positron emission tomography within the spectrum of medical imaging](javascript:void(0))  T Jones  European journal of nuclear medicine 23 (2), 207-211 1996 cited by 137  [A normalization technique for 3D PET data](javascript:void(0))  M Defrise, DW Townsend, D Bailey, AMC Geissbuhler, T Jones  Physics in Medicine & Biology 36 (7), 939 1991 cited 137  [An interictal study of partial epilepsy using positron emission tomography and the oxygen-15 inhalation technique.](javascript:void(0))  S Bernardi, MR Trimble, RS Frackowiak, RJ Wise, T Jones  Journal of Neurology, Neurosurgery & Psychiatry 46 (6), 473-477 1983 cited by 132  [The effects of L-DOPA on regional cerebral blood flow and oxygen metabolism in patients with Parkinson's disease](javascript:void(0))  KL Leenders, L Wolfson, JM Gibbs, RJS Wise, R Causon, T Jones, ...  Brain 108 (1), 171-191 1985 cited by 131  [Disturbance of oxidative metabolism of glucose in recent human cerebral infarcts](javascript:void(0))  RJS Wise, CG Rhodes, JM Gibbs, J Hatazawa, T Palmer, RSJ Frackowiak, ...  Annals of Neurology: Official Journal of the American Neurological … 1983 cited by 130  [Long-term trans-synaptic glial responses in the human thalamus after peripheral nerve injury](javascript:void(0))  RB Banati, A Cagnin, DJ Brooks, RN Gunn, R Myers, T Jones, R Birch, ...  Neuroreport 12 (16), 3439-3442 2001 cited in 127  [Can positron emission tomography (PET) be used to detect subclinical response to cancer therapy?](javascript:void(0))  P Price, T Jones, ECPETOC Action, EORTC PET Study Group  European Journal of Cancer 31 (12), 1924-1927 1995 cited by 125  [Hyperpnoea during and immediately after exercise in man: evidence of motor cortical involvement.](javascript:void(0))  GR Fink, L Adams, JD Watson, JA Innes, B Wuyam, I Kobayashi, ...  The Journal of physiology 489 (3), 663-675 1995 cited in 121  [*In vivo* pharmacokinetics and pharmacodynamics in drug development using positron-emission tomography](javascript:void(0))  EO Aboagye, PM Price, T Jones  Drug discovery today 6 (6), 293-302 2001 cited in 121  [Comparison of regional myocardial blood flow in syndrome X & one -vessel coronary artery disease](javascript:void(0))  AR Galassi, F Crea, LI Araujo, AA Lammertsma, G Pupita, Y Yamamoto, ...  American Journal of Cardiology 72 (2), 134-139 1993 cited by 119  [History and future technical innovation in positron emission tomography](https://scholar.google.co.uk/citations?view_op=view_citation&hl=en&user=kQHTMKgAAAAJ&cstart=20&pagesize=80&citation_for_view=kQHTMKgAAAAJ:foquWX3nUaYC)  T Jones, DW Townsend  Journal of Medical Imaging 4 (1), 011013 cited 118  [Total-body imaging: transforming the role of positron emission tomography](https://scholar.google.co.uk/citations?view_op=view_citation&hl=en&user=kQHTMKgAAAAJ&cstart=20&pagesize=80&citation_for_view=kQHTMKgAAAAJ:ufrVoPGSRksC)  SR Cherry, RD Badawi, JS Karp, WW Moses, P Price, T Jones  Science translational medicine 9 (381) cited in 117  [CMRO2 and CBF by the oxygen-15 inhalation technique](javascript:void(0))  GL Lenzi, RSJ Frackowiak, T Jones, JD Heather, AA Lammertsma, ...  European neurology 20 (3), 285-290 1993 cited by 117  [Noise equivalent count measurements in a neuro-PET scanner with retractable septa](javascript:void(0))  DL Bailey, T Jones, TJ Spinks, MC Gilardi, DW Townsend  IEEE transactions on medical imaging 10 (3), 256-260 1991 cited by 116  [The potential of high-resolution PET to monitor striatal dopaminergic function in rat models of disease](javascript:void(0))  SP Hume, AA Lammertsma, R Myers, S Rajeswaran, PM Bloomfield, ...  Journal of neuroscience methods 67 (2), 103-112 1990 cited by 113  [The development, past achievements, and future directions of brain PET](javascript:void(0))  T Jones, EA Rabiner  Journal of Cerebral Blood Flow & Metabolism 32 (7), 1426-1454 2012 cited 113  [Bias in iterative reconstruction of low-statistics PET data: benefits of a resolution model](javascript:void(0))  MD Walker, MC Asselin, PJ Julyan, M Feldmann, PS Talbot, T Jones, ...  Physics in Medicine & Biology 56 (4), 9312011 cited in 112  [ECAT ART—a continuously rotating PET camera: performance characteristics, initial clinical studies, and installation considerations in a nuclear medicine department](javascript:void(0))  DL Bailey, H Young, PM Bloomfield, SR Meikle, D Glass, MJ Myers, ...  European journal of nuclear medicine 24 (1), 6-15 1997 cited in 111  [Oxygen-15 brain scanning for detection of cerebral involvement in systemic lupus erythematosus](javascript:void(0))  AJ Pinching, RL Travers, GRV Hughes, T Jones, S Moss  The Lancet 311 (8070), 898-900 1978 cited in 109  [Quantitative measurement of blood—brain barrier permeability using rubidium-82 & positron emission tomography](javascript:void(0))  DJ Brooks, RP Beaney, AA Lammertsma, KL Leenders, PL Horlock, ...  Journal of Cerebral Blood Flow & Metabolism 4 (4), 535-545 1984 cited in 108  [Diffuse reduction of myocardial beta-adrenoceptors in hypertrophic cardiomyopathy: a study with PET](javascript:void(0))  DC Lefroy, R de Silva, L Choudhury, NG Uren, T Crake, CG Rhodes, ...  Journal of the American College of Cardiology 22 (6), 1653-1660 1993 cited by 106  [Parametric image reconstruction using spectral analysis of PET projection data](javascript:void(0))  SR Meikle, JC Matthews, VJ Cunningham, DL Bailey, L Livieratos, ...  Physics in Medicine & Biology 43 (3), 651 1998 cited in 104  [Regional cerebral opioid receptor studies with [11C] diprenorphine in normal volunteers](javascript:void(0))  AKP Jones, SK Luthra, B Maziere, VW Pike, C Loc'h, C Crouzel, A Syrota, ...  Journal of neuroscience methods 23 (2), 121-129 1988 cited in 104  [The on-line monitoring of continuously withdrawn arterial blood in PET studies single BGO/photomultiplier assembly & and non-stick tubing.](javascript:void(0))  AS Ranicar, CW Williams, L Schnorr, JC Clark, CG Rhodes, ...  Medical progress through technology 17 (3-4), 259-264 1991 cited 102  [Measurement of Glucose Utilisation with [18F]2-Fluoro-2-Deoxy-D-Glucose: A Comparison of Different Methods](javascript:void(0))  AA Lammertsma, DJ Brooks, RSJ Frackowiak, RP Beaney, S Herold, ...  Journal of Cerebral Blood Flow & Metabolism 7 (2), 161-172 1987 cited by 102  [Correction for scatter using a dual energy window technique with a tomograph operated without septa](javascript:void(0))  S Grootoonk, TJ Spinks, T Jones, C Michel, A Bol  Nuclear Science Symposium and Medical Imaging Conference, 1991., Conference 1991 cited in 101  [Measurement of blood flow, oxygen utilisation, oxygen extraction ratio, and fractional blood volume in human brain tumours and surrounding tumours and surrounding oedematous tissue](javascript:void(0))  AA Lammertsma, RJS Wise, TCS Cox, DGT Thomas, T Jones  The British journal of radiology 58 (692), 725-734 1985 cited in 99  [Measurement of Changes in Opioid Receptor Binding *in Vivo* During Trigeminal Neuralgic Pain U11C]Diprenorphine and Positron Emission and Positron Emission Tomography](javascript:void(0))  AKP Jones, ND Kitchen, H Watabe, VJ Cunningham, T Jones, SK Luthra, ...  Journal of Cerebral Blood Flow & Metabolism 19 (7), 803-808 1999 cited in 99  [Modulation of fluorouracil tissue pharmacokinetics by eniluracil: in-vivo imaging of drug action](javascript:void(0)) A Saleem, J Yap, S Osman, F Brady, SV Lucas, T Jones, PM Price, ...  The Lancet 355 (9221), 2125-2000 cited in 97  [The impact of myocardial blood flow quantitation with PET on the understanding of cardiac diseases](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=kQHTMKgAAAAJ&cstart=20&pagesize=80&citation_for_view=kQHTMKgAAAAJ:9ZlFYXVOiuMC)  PG Camici, RJ Gropler, T Jones, A L'Abbate, A Maseri, JA Melin, P Merlet, ...  European heart journal 1996, 17 (1), 25-34 cited in 97  [Metabolic activation of temozolomide measured in vivo using positron emission tomography](https://scholar.google.co.uk/citations?view_op=view_citation&hl=en&user=kQHTMKgAAAAJ&cstart=20&pagesize=80&citation_for_view=kQHTMKgAAAAJ:ipzZ9siozwsC)  A Saleem, GD Brown, F Brady, EO Aboagye, S Osman, SK Luthra, ...  Cancer research 63 (10), 2409-2415 cited by 94 |