**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.

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Reviews:

### [Total-Body PET Imaging in Infectious Diseases](https://www.pet.theclinics.com/article/S1556-8598%2820%2930078-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

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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

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|  Highest Cited Publications; in order of citation within the h-index of 97: |  |  |
| Evidence for striatal dopamine release during a video gameMJ Koepp, RN Gunn, AD Lawrence, VJ Cunningham, A Dagher, T Jones, ...Nature 393 (6682), 2661 1998 cited by 1626Quantitative measurement of regional cerebral blood flow and oxygen metabolism in man using 15O and positron emission tomography: theory, procedure, and normal values.RS Frackowiak, GL Lenzi, T Jones, JD HeatherJournal of computer assisted tomography 4 (6), 727-736 1980 cited by 1542Cerebral blood flow, blood volume and oxygen utilization: normal values and effect of ageKL Leenders, D Perani, AA Lammertsma, JD Heather, P Buckingham, ...Brain 113 (1), 27-47 1990 cited by 1174In-vivo measurement of activated microglia in dementiaA Cagnin, DJ Brooks, AM Kennedy, RN Gunn, R Myers, FE Turkheimer, ...The Lancet 358 (9280), 461-467 2001 cited by 1138A functional neuroanatomy of hallucinations in schizophrenia DA Silbersweig, E Stern, C Frith, C Cahill, A Holmes, S Grootoonk, ...Nature 378 (6553), 176 1995 cited by 1129Patterns of cerebral blood flow in schizophreniaPF Liddle, KJ Friston, CD Frith, SR Hirsch, T Jones, RSJ FrackowiakThe British Journal of Psychiatry 160 (2), 179-18 1992 cited by 1078Regional cerebral oxygen supply and utilization in dementia: a clinical and physiological study with oxygen-15and positron emission tomographyRSJ Frackowiak, C Pozzilli, NJ Legg, GHDU Boulay, J Marshall, ...Brain 104 (4), 753-778 1981 cited by 855Evaluation of cerebral perfusion reserve in patients with carotid-artery occlusionJM Gibbs, KL Leenders, RJS Wise, T JonesThe Lancet 323 (8370), 182-186 1984 cited by 727The peripheral benzodiazepine binding site in brain in multiple sclerosis: Quantitative *in vivo* imaging of microglia as a measure of disease activityRB Banati, J Newcombe, RN Gunn, A Cagnin, F Turkheimer, F Heppner, ...Brain 123 (11), 2321-2337 2000 cited by 688Spectral analysis of dynamic PET studiesVJ Cunningham, T JonesJournal of Cerebral Blood Flow & Metabolism 13 (1), 15-23 1993 cited by 556Serial observations on the pathophysiology of acute stroke: the transition from ischaemia to infarction as reflected in regional oxygen regional regional oxygen extractionRJS Wise, S Bernardi, RSJ Frackowiak, NJ Legg, T JonesBrain 106 (1), 197-222 1983 cited by 523Decreased brain GABAA-benzodiazepine receptor binding in panic disorder: preliminary results from a quantitative udyPET study AL Malizia, VJ Cunningham, CJ Bell, PF Liddle, T Jones, DJ NuttArchives of general psychiatry 55 (8), 715-720 1998 cited by 484Cerebral oxygen metabolism and blood flow in human cerebral ischemic infarctionGL Lenzi, RSJ Frackowiak, T JonesJournal of Cerebral Blood Flow & Metabolism 2 (3), 321-335 1982 cited by 482Brain dopamine metabolism in patients with Parkinson's disease measured with positron emission tomography.KL Leenders, AJ Palmer, N Quinn, JC Clark, G Firnau, ES Garnett, ...Journal of Neurology, Neurosurgery & Psychiatry 49 (8), 853-860 1986 cited by 475The nigrostriatal dopaminergic system assessed in vivo by positron emission tomography in healthy volunteer subjects volunteer subjects and patients with Parkinson's diseaseKL Leenders, EP Salmon, P Tyrrell, D Perani, DJ Brooks, H Sager, ...Archives of neurology 47 (12), 1290-1298 1990 cited by 445Correction 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. 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