

Stanford



Tarik F. Massoud, MD, PhD

Professor of Radiology (Neuroimaging and Neurointervention) at the Stanford University Medical Center

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ACADEMIC CONTACT INFORMATION

- **Administrative Associate**

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Bio

BIO

Tarik Massoud is a Professor of Neuroradiology and Molecular Imaging in the Department of Radiology, Stanford University School of Medicine, where he directs LEMNI (the Laboratory of Experimental and Molecular Neuroimaging), and is an Attending Neuroradiologist in Stanford Health Care. He qualified from the Medical School of the Royal College of Surgeons in Ireland and then served as intern to two inspirational medical giants of their days, Dr. William H. (Willie) Bisset at the Royal Hospital for Sick Children in Edinburgh, UK, and Professor Sir Raymond (Bill) Hoffenberg, PRCP, at the Queen Elizabeth Hospital in Birmingham, UK. He trained in Radiology and Neuroradiology in Oxford, UCLA, and the University of Michigan, and is a Fellow of the Royal College of Radiologists in London. He holds a research MD degree (NUI) in experimental neuroimaging (work conducted at UCLA), and a Cambridge PhD in molecular imaging (work conducted at the Crump Institute for Molecular Imaging at UCLA, and the Molecular Imaging Program at Stanford, Gambhir laboratory). From 2000 to 2013 he was a University Lecturer and Honorary Consultant in Neuroradiology at the University of Cambridge School of Clinical Medicine and Addenbrooke's Hospital in Cambridge, UK. He was formerly an Assistant and Associate Professor of Radiology at UCLA, and held visiting Associate Professorships at Columbia and MCW, Milwaukee. He has published extensively and won numerous awards at scientific meetings. His papers in experimental interventional neuroradiology and molecular imaging are widely cited. He has been a peer reviewer for dozens of international medical journals, as well as other medical charities and governmental funding agencies. He is Editor-in-Chief of the journal Reports in Medical Imaging, and an editorial board member for numerous biomedical journals. He is the senior author or editor of several books, including "Glioblastoma: State-of-the-Art Clinical Neuroimaging", and "Basilar Artery: A Clinical Review". In 2016 he was awarded a Special Faculty Permit ('eminent physician license') by the Medical Board of the State of California.

CLINICAL FOCUS

- Neuroradiology

- Diagnostic Radiology

ACADEMIC APPOINTMENTS

- Professor - Med Center Line, Radiology
- Member, Bio-X
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Assistant Professor, Neuroradiology, UCLA School of Medicine, Los Angeles, (1993-1997)
- Associate Professor, Neuroradiology, UCLA School of Medicine, Los Angeles, (1997-1999)
- University Lecturer and Consultant in Neuroradiology, University of Cambridge School of Clinical Medicine and Addenbrooke's Hospital, Cambridge, UK, (2000-2013)
- Director, Laboratory of Experimental and Molecular Neuroimaging (LEMNI), Molecular Imaging Program at Stanford (MIPS), (2013- present)
- Professor of Radiology (Neuroradiology and Molecular Imaging), Stanford University School of Medicine, (2013- present)

HONORS AND AWARDS

- Stoney Memorial Gold Medal in Anatomy (Neuroanatomy), Royal College of Surgeons in Ireland (1981)
- J. J. Fitzsimons Gold Medal and Prize in Surgery, Royal College of Surgeons in Ireland (1984)
- Kodak Scholar, Royal College of Radiologists, UK (1992)
- Magna Cum Laude Award for research, American Society of Neuroradiology (1993)
- William Cook Interventional Fellow, Royal College of Radiologists, UK (1993)
- Cum Laude Award (on 5 occasions) for research, American Society of Neuroradiology (1994-2001)
- Magna Cum Laude Award for research, American Society of Neuroradiology (1995)
- Wormald Grant Award, Royal College of Radiologists, UK (2001)
- Mid-Career Award for Established Practitioners, The Health Foundation, UK (2002)
- Special Faculty Permit ('eminent physician license'), Medical Board of California (2016)
- Guerbet Scientific Cum Laude Award, XXI Symposium Neuroradiologicum (2018)
- Sigma Xi, nominated and elected member, Sigma Xi (2018)
- Distinguished Investigator Award, Academy of Radiology and Biomedical Imaging Research (2019)

PROFESSIONAL EDUCATION

- PhD, University of Cambridge (Emmanuel College), UK , Molecular Imaging and Biology (2007)
- MD (research doctorate), National University of Ireland , Neuroradiology (2003)
- MA, University of Cambridge, UK (2003)
- Fellowship, University of Michigan Medical Center, Ann Arbor , Neuroradiology (clinical) (2000)
- Fellowship, UCLA Medical Center, Los Angeles , Neuroradiology (research) (1993)
- FRCR (board certification), Royal College of Radiologists, UK , Radiology (1992)
- Residency and Fellowship, John Radcliffe Hospital and Radcliffe Infirmary, Oxford, UK , Radiology and Neuroradiology (1992)
- MB BCH BAO LRCPI&SI, Medical School of the Royal College of Surgeons in Ireland, Dublin, and the National University of Ireland , Medicine (1984)

LINKS

- Editorial Commitments: <http://www.dovepress.com/journal-editor-dr-tarik-f-massoud-reports-in-medical-imaging-eic49>

- Book Publication: <https://novapublishers.com/shop/glioblastoma-state-of-the-art-clinical-neuroimaging-2-volume-set/>
- Book Publication: <https://novapublishers.com/shop/basilar-artery-a-clinical-review-2-volume-set/>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My current interests are in molecular and translational imaging of the brain especially in neuro-oncology and cerebrovascular diseases, experimental aspects of neuroimaging, clinical neuroradiology, neuroradiological anatomy, and research education and academic training of radiologists and scientists.

CLINICAL TRIALS

- 18F-FDOPA PET/CT or PET/MRI in Measuring Tumors in Patients With Newly-Diagnosed or Recurrent Gliomas, Not Recruiting

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Neuroradiology (Fellowship Program)

Publications

PUBLICATIONS

- **A protein folding molecular imaging biosensor monitors the effects of drugs that restore mutant p53 structure and its downstream function in glioblastoma cells.** *Oncotarget*
Paulmurugan, R., Afjei, R., Sekar, T. V., Babikir, H. A., Massoud, T. F.
2018; 9 (30): 21495–511
- **Targeted nanoparticle delivery of therapeutic antisense microRNAs presensitizes glioblastoma cells to lower effective doses of temozolomide in vitro and in a mouse model.** *Oncotarget*
Malhotra, M., Sekar, T. V., Ananta, J. S., Devulapally, R., Afjei, R., Babikir, H. A., Paulmurugan, R., Massoud, T. F.
2018; 9 (30): 21478–94
- **Restoring guardianship of the genome: Anticancer drug strategies to reverse oncogenic mutant p53 misfolding.** *Cancer treatment reviews*
Babikir, H. A., Afjei, R., Paulmurugan, R., Massoud, T. F.
2018; 71: 19–31
- **Tailored Nanoparticle Codelivery of anti-miR-21 and anti-miR-10b Augments Glioblastoma Cell Kill by Temozolomide: Toward a "Personalized" Anti-microRNA Therapy.** *Molecular pharmaceuticals*
Ananta, J. S., Paulmurugan, R., Massoud, T. F.
2016; 13 (9): 3164-3175
- **A molecular imaging biosensor detects in vivo protein folding and misfolding** *JOURNAL OF MOLECULAR MEDICINE-JMM*
Sheahan, A. V., Sekar, T. V., Chen, K., Paulmurugan, R., Massoud, T. F.
2016; 94 (7): 799-808
- **Temozolomide-loaded PLGA nanoparticles to treat glioblastoma cells: a biophysical and cell culture evaluation** *NEUROLOGICAL RESEARCH*
Ananta, J. S., Paulmurugan, R., Massoud, T. F.
2016; 38 (1): 51-59
- **Nanoparticle-Delivered Antisense MicroRNA-21 Enhances the Effects of Temozolomide on Glioblastoma Cells** *MOLECULAR PHARMACEUTICS*
Ananta, J. S., Paulmurugan, R., Massoud, T. F.
2015; 12 (12): 4509-4517
- **Transvenous Retrograde Nidus Sclerotherapy Under Controlled Hypotension (TRENH): Hemodynamic Analysis and Concept Validation in a Pig Arteriovenous Malformation Model** *NEUROSURGERY*
Massoud, T. F.
2013; 73 (2): 332-343

- **A molecularly engineered split reporter for imaging protein-protein interactions with positron emission tomography** *NATURE MEDICINE*
Massoud, T. F., Paulmurugan, R., Gambhir, S. S.
2010; 16 (8): 921-U123
- **Noninvasive molecular neuroimaging using reporter genes: Part II, experimental, current, and future applications** *AMERICAN JOURNAL OF NEURORADIOLOGY*
Massoud, T. F., Singh, A., Gambhir, S. S.
2008; 29 (3): 409-418
- **Noninvasive molecular neuroimaging using reporter genes: Part I, principles revisited** *AMERICAN JOURNAL OF NEURORADIOLOGY*
Massoud, T. F., Singh, A., Gambhir, S. S.
2008; 29 (2): 229-234
- **Integrating noninvasive molecular imaging into molecular medicine: an evolving paradigm** *TRENDS IN MOLECULAR MEDICINE*
Massoud, T. F., Gambhir, S. S.
2007; 13 (5): 183-191
- **Reporter gene imaging of protein-protein interactions in living subjects** *CURRENT OPINION IN BIOTECHNOLOGY*
Massoud, T. F., Paulmurugan, R., De, A., Ray, P., Gambhir, S. S.
2007; 18 (1): 31-37
- **Molecular imaging of homodimeric protein-protein interactions in living subjects.** *FASEB journal*
Massoud, T. F., Paulmurugan, R., Gambhir, S. S.
2004; 18 (10): 1105-1107
- **Molecular imaging in living subjects: seeing fundamental biological processes in a new light** *GENES & DEVELOPMENT*
Massoud, T. F., Gambhir, S. S.
2003; 17 (5): 545-580
- **Laboratory evaluation of a microangioscope for potential percutaneous cerebrovascular applications** *AMERICAN JOURNAL OF NEURORADIOLOGY*
Massoud, T. F., Murayama, Y., Vinuela, F., Utsumi, A.
2001; 22 (2): 363-365
- **Experimental radiosurgery simulations using a theoretical model of cerebral arteriovenous malformations** *STROKE*
Massoud, T. F., Hademenos, G. J., De Salles, A. A., Solberg, T. D.
2000; 31 (10): 2466-2476
- **Histopathologic characteristics of a chronic arteriovenous malformation in a swine model: Preliminary study** *AMERICAN JOURNAL OF NEURORADIOLOGY*
Massoud, T. F., Vinters, H. V., CHAO, K. H., Vinuela, F., Jahan, R.
2000; 21 (7): 1268-1276
- **Can induction of systemic hypotension help prevent nidus rupture complicating arteriovenous malformation embolization?: analysis of underlying mechanisms achieved using a theoretical model** *AMERICAN JOURNAL OF NEURORADIOLOGY*
Massoud, T. F., Hademenos, G. J., Young, W. L., Gao, E. H., Pile-Spellman, J.
2000; 21 (7): 1255-1267
- **Transvenous retrograde nidus sclerotherapy under controlled hypotension (TRENH): A newly proposed treatment for brain arteriovenous malformations-concepts and rationale** *NEUROSURGERY*
Massoud, T. F., Hademenos, G. J.
1999; 45 (2): 351-363
- **Principles and philosophy of modeling in biomedical research** *FASEB JOURNAL*
Massoud, T. F., Hademenos, G. J., Young, W. L., Gao, E. Z., Pile-Spellman, J., Vinuela, F.
1998; 12 (3): 275-285
- **AN EXPERIMENTAL ARTERIOVENOUS MALFORMATION MODEL IN SWINE - ANATOMIC BASIS AND CONSTRUCTION TECHNIQUE** *Annual Meeting of the American-Society-of-Neuroradiology*
Massoud, T. F., Ji, C., Vinuela, F., Guglielmi, G., Robert, J., Duckwiler, G. R., Gobin, Y. P.
AMER SOC NEURORADIOLOGY.1994: 1537-45

- **The protean world of non-coding RNAs in glioblastoma.** *Journal of molecular medicine (Berlin, Germany)*
Paulmurugan, R., Malhotra, M., Massoud, T. F.
2019
- **Are High Lumbar Punctures Safe? An MRI Morphometric Study of the Conus Medullaris.** *Clinical anatomy (New York, N.Y.)*
Yedavalli, V., Jain, M. S., Das, D., Massoud, T. F.
2019
- **Molecular Imaging of Retinoic Acids in Live Cells Using Single-Chain Bioluminescence Probes.** *ACS combinatorial science*
Kim, S. B., Fujii, R., Nishihara, R., Bose, R. J., Citterio, D., Suzuki, K., Massoud, T. F., Paulmurugan, R.
2019
- **Eponymous "valves" of the nasolacrimal drainage apparatus. I. A historical review** *CLINICAL ANATOMY*
Yedavalli, V., Das, D., Massoud, T. F.
2019; 32 (1): 41–45
- **Eponymous "valves" of the nasolacrimal drainage apparatus. II. Frequency of visualization on dacryocystography** *CLINICAL ANATOMY*
Yedavalli, V., Das, D., Massoud, T. F.
2019; 32 (1): 35–40
- **Ossification of the pterygoalar and pterygospinous ligaments: a computed tomography analysis of infratemporal fossa anatomical variants relevant to percutaneous trigeminal rhizotomy.** *Journal of neurosurgery*
Matys, T., Ali, T., Zaccagna, F., Barone, D. G., Kirollos, R. W., Massoud, T. F.
2019: 1–10
- **Restoring guardianship of the genome: Anticancer drug strategies to reverse oncogenic mutant p53 misfolding** *CANCER TREATMENT REVIEWS*
Babikir, H. A., Afjei, R., Paulmurugan, R., Massoud, T. F.
2018; 71: 19–31
- **Comparison of cell-based assays to quantify treatment effects of anticancer drugs identifies a new application for Bodipy-L-cystine to measure apoptosis** *SCIENTIFIC REPORTS*
Kumar, N., Atjei, R., Massoud, T. F., Paulmurugan, R.
2018; 8
- **Comparison of cell-based assays to quantify treatment effects of anticancer drugs identifies a new application for Bodipy-L-cystine to measure apoptosis.** *Scientific reports*
Kumar, N., Afjei, R., Massoud, T. F., Paulmurugan, R.
2018; 8 (1): 16363
- **Tumor Cell-Derived Extracellular Vesicle-Coated Nanocarriers: An Efficient Theranostic Platform for the Cancer-Specific Delivery of Anti-miR-21 and Imaging Agents** *ACS NANO*
Bose, R. C., Kumar, S., Zeng, Y., Afjei, R., Robinson, E., Lau, K., Bermudez, A., Habte, F., Pitteri, S. J., Sinclair, R., Willmann, J. K., Massoud, T. F., Gambhir, et al
2018; 12 (11): 10817–32
- **Eponymous 'Valves' of the Nasolacrimal Drainage Apparatus: II. Frequency of Visualization on Dacryocystography.** *Clinical anatomy (New York, N.Y.)*
Yedavalli, V., Das, D., Massoud, T. F.
2018
- **Eponymous 'Valves' of the Nasolacrimal Drainage Apparatus: I. A Historical Review.** *Clinical anatomy (New York, N.Y.)*
Yedavalli, V., Das, D., Massoud, T. F.
2018
- **The Hemorrhage that Wasn't: Polycythemia Presenting as a Pseudointracranial Hemorrhage in Pedestrian vs Automobile Trauma Alert** *JOURNAL OF EMERGENCY MEDICINE CASE REPORTS*
Phillips, A. W., Baird, J. H., Wentland, A. L., Yang, R. L., Massoud, T. F.
2018; 9 (2): 26–29
- **Tumor Cell-Derived Extracellular Vesicle-Coated Nanocarriers: An Efficient Theranostic Platform for the Cancer-Specific Delivery of Anti-miR-21 and Imaging Agents.** *ACS nano*

Jc Bose, R., Uday Kumar, S., Zeng, Y., Afjei, R., Robinson, E., Lau, K., Bermudez, A., Habte, F., Pitteri, S. J., Sinclair, R., Willmann, J. K., Massoud, T. F., Gambhir, et al
2018

- **CORRELATION OF VASARI-BASED MRI PHENOTYPES WITH MGMT AND IDH STATUS ACROSS GLIOMA GRADES: A STATISTICAL ANALYSIS IN 372 PATIENTS**
Das, D., Yoon, B., Golden, L., Samghabadi, P., Vogel, H., Yeom, K., Iv, M., Massoud, T.
OXFORD UNIV PRESS INC.2017: 150
- **TREM1-TARGETED PET IMAGING OF TUMOR-ASSOCIATED MACROPHAGES IN AN ORTHOTOPIC GLIOBLASTOMA MOUSE MODEL**
Johnson, E., Murty, S., Mayer, A., Tsai, C., Mehta, S., Ilovich, O., Massoud, T., Andreasson, K., James, M.
OXFORD UNIV PRESS INC.2017: 249
- **A MOLECULAR IMAGING BIOSENSOR MONITORS THE EFFECTS OF ANTI-MISFOLDING DRUGS THAT RESTORE MUTANT p53 FUNCTION AND ENHANCE COMBINATION CHEMOTHERAPY FOR GLIOBLASTOMA**
Paulmurugan, R., Afjei, R., Babikir, H., Sekar, T., Massoud, T.
OXFORD UNIV PRESS INC.2017: 62
- **TARGETED NANOPARTICLE DELIVERY OF THERAPEUTIC ANTIMIR-21 AND ANTIMIR-10B PRESENSITIZES GLIOBLASTOMA TO LOWER EFFECTIVE DOSES OF TEMOZOLOMIDE IN CELLS AND XENOGRAPTS**
Malhotra, M., Sekar, T., Devulapally, R., Afjei, R., Paulmurugan, R., Massoud, T.
OXFORD UNIV PRESS INC.2017: 86
- **THE EFFECT OF PATIENT AGE AT GLIOMA PRESENTATION ON MRI PHENOTYPE: A COMPREHENSIVE ANALYSIS OF VASARI-BASED FEATURE-SET CRITERIA IN 711 PATIENTS**
Das, D., Yoon, B., Golden, L., Samghabadi, P., Vogel, H., Yeom, K., Iv, M., Massoud, T.
OXFORD UNIV PRESS INC.2017: 158
- **PKM2 activation sensitizes cancer cells to growth inhibition by 2-deoxy-D-glucose *ONCOTARGET***
Tee, S., Park, J., Hurd, R. E., Brimacombe, K. R., Boxer, M. B., Massoud, T. F., Rutt, B. K., Spielman, D. M.
2017; 8 (53): 90959–68
- **DEVELOPMENT AND EVALUATION OF A NEW HIGHLY SPECIFIC TREM1-SPECIFIC PET TRACER FOR IMAGING MALADAPTIVE INFLAMMATION**
Johnson, E. M., Mayer, A., Wang, Q., Tsai, C., Mehta, S., Habte, B., Ilovich, O., Massoud, T. F., Andreasson, K. I., James, M. L.
WILEY.2017: 15
- **PKM2 activation sensitizes cancer cells to growth inhibition by 2-deoxy-D-glucose. *Oncotarget***
Tee, S. S., Park, J. M., Hurd, R. E., Brimacombe, K. R., Boxer, M. B., Massoud, T. F., Rutt, B. K., Spielman, D. M.
2017; 8 (53): 90959–68
- **Engineering Intracellularly Retained Gaussia Luciferase Reporters for Improved Biosensing and Molecular Imaging Applications. *ACS chemical biology***
Gaur, S., Bhargava-Shah, A., Hori, S., Afjei, R., Sekar, T. V., Gambhir, S. S., Massoud, T. F., Paulmurugan, R.
2017
- **Molecular Imaging Biosensor Monitors p53 Sumoylation in Cells and Living Mice *ANALYTICAL CHEMISTRY***
Sekar, T. V., Foygel, K., Devulapally, R., Kumar, V., Malhotra, S., Massoud, T. F., Paulmurugan, R.
2016; 88 (23): 11420-11428
- **A transgenic mouse model expressing an ER alpha folding biosensor reveals the effects of Bisphenol A on estrogen receptor signaling *SCIENTIFIC REPORTS***
Sekar, T. V., Foygel, K., Massoud, T. F., Gambhir, S. S., Paulmurugan, R.
2016; 6
- **Glioblastoma Invoking "Killer" Rabbits of the Middle Ages. *World neurosurgery***
Massoud, T. F., Kalnins, A.
2016; 92: 140-141
- **Folate Receptor-Targeted Polymeric Micellar Nanocarriers for Delivery of Orlistat as a Repurposed Drug against Triple-Negative Breast Cancer. *Molecular cancer therapeutics***
Paulmurugan, R., Bhethanabotla, R., Mishra, K., Devulapally, R., Foygel, K., Sekar, T. V., Ananta, J. S., Massoud, T. F., Joy, A.

2016; 15 (2): 221-231

- **Polymer Nanoparticles Mediated Codelivery of AntimiR-10b and AntimiR-21 for Achieving Triple Negative Breast Cancer Therapy** *ACS NANO*
Devulapally, R., Sekar, N. M., Sekar, T. V., Foygel, K., Massoud, T. F., Willmann, J. K., Paulmurugan, R.
2015; 9 (3): 2290-2302
- **Trends in Performance Indicators of Neuroimaging Anatomy Research Publications: A Bibliometric Study of Major Neuroradiology Journal Output Over Four Decades Based on Web of Science Database** *CLINICAL ANATOMY*
Wing, L., Massoud, T. F.
2015; 28 (1): 16-26
- **No Significant Displacement of Basal Brain Structures upon Head Movement: Kinematic MRI Morphometry Relevant to Neuroendoscopy.** *Journal of neurological surgery. Part A, Central European neurosurgery*
Horsburgh, A., Kirolos, R. W., Massoud, T. F.
2014; 75 (2): 98-103
- **The aqueduct of Sylvius: applied 3-T magnetic resonance imaging anatomy and morphometry with neuroendoscopic relevance.** *Neurosurgery*
Matys, T., Horsburgh, A., Kirolos, R. W., Massoud, T. F.
2013; 73 (2): ons132-40
- **The aqueduct of Sylvius: applied 3-T magnetic resonance imaging anatomy and morphometry with neuroendoscopic relevance.** *Neurosurgery*
Matys, T., Horsburgh, A., Kirolos, R. W., Massoud, T. F.
2013; 73 (2): 132-140
- **Tuber cinereum proximity to critical major arteries: a morphometric imaging analysis relevant to endoscopic third ventriculostomy** *ACTA NEUROCHIRURGICA*
Horsburgh, A., Matys, T., Kirolos, R. W., Massoud, T. F.
2013; 155 (5): 891-900
- **Normative dimensions and symmetry of the lacrimal drainage system on dacryocystography: statistical analysis of morphometric characteristics** *FOLIA MORPHOLOGICA*
Horsburgh, A., Massoud, T. F.
2013; 72 (2): 137-141
- **The circumventricular organs of the brain: conspicuity on clinical 3T MRI and a review of functional anatomy** *SURGICAL AND RADIOLOGIC ANATOMY*
Horsburgh, A., Massoud, T. F.
2013; 35 (4): 343-349
- **Lessons Learned From Unintended Sublingual Sialography: Imaging Anatomy, Technical Considerations, and Diagnostic Implications** *AMERICAN JOURNAL OF ROENTGENOLOGY*
Horsburgh, A., Massoud, T. F.
2013; 200 (4): 879-883
- **Is higher choroid plexus 'load' an aetiologic factor in idiopathic intracranial hypertension? A clinico-imaging morphometric correlative study** *CEPHALALGIA*
Horsburgh, A., Massoud, T. F.
2013; 33 (1): 20-24
- **A c-Myc Activation Sensor-Based High-Throughput Drug Screening Identifies an Antineoplastic Effect of Nitazoxanide** *Mol Cancer Ther*
Fan-Minogue, H., Bodapati, S., Solow-Cordero, D., Fan, A., Paulmurugan, R., et al
2013
- **Primary Cerebral Lymphoma Causing Remitting and Relapsing Neurological Symptoms** *Journal of Medical Cases*
Stoker, T., Young, A., Massoud, T. F., Patani, R., Manford, M.
2013; 4 (6): 420-423
- **The role of salivary duct morphology in the aetiology of sialadenitis: statistical analysis of sialographic features** *INTERNATIONAL JOURNAL OF ORAL AND MAXILLOFACIAL SURGERY*
Horsburgh, A., Massoud, T. F.
2013; 42 (1): 124-128

- **Bochdalek's flower basket: applied neuroimaging morphometry and variants of choroid plexus in the cerebellopontine angles** *NEURORADIOLOGY*
Horsburgh, A., Kirolos, R. W., Massoud, T. F.
2012; 54 (12): 1341-1346
- **FEASIBILITY OF AN INTRAMOLECULAR COMPLEMENTATION STRATEGY FOR SPLIT-REPORTER GENE IMAGING OF DRUGGABLE PROTEIN MISFOLDING IN BRAIN CANCER** *17th Annual Scientific Meeting and Education Day of the Society-for-Neuro-Oncology (SNO)*
Massoud, T. F., Paulmurugan, R., Gambhir, S. S.
OXFORD UNIV PRESS INC.2012: 11–11
- **Discovery and validation of small-molecule heat-shock protein 90 inhibitors through multimodality molecular imaging in living subjects** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Chan, C. T., Reeves, R. E., Geller, R., Yaghoubi, S. S., Hoehne, A., Solow-Cordero, D. E., Chiosis, G., Massoud, T. F., Paulmurugan, R., Gambhir, S. S.
2012; 109 (37): E2476-E2485
- **In Vitro and in Vivo Molecular Imaging of Estrogen Receptor alpha and beta Homo- and Heterodimerization: Exploration of New Modes of Receptor Regulation** *MOLECULAR ENDOCRINOLOGY*
Paulmurugan, R., Tamrazi, A., Massoud, T. F., Katzenellenbogen, J. A., Gambhir, S. S.
2011; 25 (12): 2029-2040
- **Gold Nanoparticles: A Revival in Precious Metal Administration to Patients** *NANO LETTERS*
Thakor, A. S., Jokerst, J., Zavaleta, C., Massoud, T. F., Gambhir, S. S.
2011; 11 (10): 4029-4036
- **Bioluminescence resonance energy transfer (BRET) imaging of protein-protein interactions within deep tissues of living subjects** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Dragulescu-Andrasi, A., Chan, C. T., De, A., Massoud, T. F., Gambhir, S. S.
2011; 108 (29): 12060-12065
- **The Fate and Toxicity of Raman-Active Silica-Gold Nanoparticles in Mice** *SCIENCE TRANSLATIONAL MEDICINE*
Thakor, A. S., Luong, R., Paulmurugan, R., Lin, F. I., Kempen, P., Zavaleta, C., Chu, P., Massoud, T. F., Sinclair, R., Gambhir, S. S.
2011; 3 (79)
- **Oxidative Stress Mediates the Effects of Raman-Active Gold Nanoparticles in Human Cells** *SMALL*
Thakor, A. S., Paulmurugan, R., Kempen, P., Zavaleta, C., Sinclair, R., Massoud, T. F., Gambhir, S. S.
2011; 7 (1): 126-136
- **Noninvasive molecular imaging of c-Myc activation in living mice** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Fan-Minogue, H., Cao, Z., Paulmurugan, R., Chan, C. T., Massoud, T. F., Felsher, D. W., Gambhir, S. S.
2010; 107 (36): 15892-15897
- **A Novel Estrogen Receptor Intramolecular Folding-based Titratable Transgene Expression System** *MOLECULAR THERAPY*
Paulmurugan, R., Padmanabhan, P., Ahn, B., Ray, S., Willmann, J. K., Massoud, T. F., Biswal, S., Gambhir, S. S.
2009; 17 (10): 1703-1711
- **Double superior vena cavae.** *BMJ case reports*
Thakor, A. S., Massoud, T.
2009; 2009
- **Molecular imaging of reporter gene expression in prostate cancer: An overview** *12th Meeting of the International-Scientific-Committee-of-Radionuclides-in-Nephrourology*
Singh, A., Massoud, T. F., Deroose, C., Gambhir, S. S.
W B SAUNDERS CO-ELSEVIER INC.2008: 9–19
- **Molecular imaging of homodimeric protein-protein interactions in living subjects** *FASEB JOURNAL*
Massoud, T. F., Paulmurugan, R., Gambhir, S. S.
2004; 18 (7): 1105-?
- **Molecular imaging of drug-modulated protein-protein interactions in living subjects** *CANCER RESEARCH*
Paulmurugan, R., Massoud, T. F., Huang, J., Gambhir, S. S.

2004; 64 (6): 2113-2119

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