



Tarik F. Massoud, MD, PhD

Professor of Radiology (Neuroimaging and Neurointervention)

CLINICAL OFFICE (PRIMARY)

- **Center for Academic Medicine Dept of Radiology**
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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 diagnostic 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 day, 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. He has a research MD degree (NUI) in experimental neuroimaging (work conducted at UCLA), and a University of Cambridge PhD in molecular imaging (work conducted at the Crump Institute for Molecular Imaging at UCLA, and the Molecular Imaging Program at Stanford, Gambhir lab). He held Assistant and Associate Professorships of Radiology at UCLA, prior to a senior academic position in Neuroradiology at the University of Cambridge School of Clinical Medicine, UK.

He has published extensively and won numerous awards at scientific meetings. His work in experimental interventional neuroradiology is credited with the first development of morphologically-realistic pig models of bifurcation, terminal, and fusiform intracranial aneurysms (AJNR 1994, 1995); the carotid-jugular fistula-type pig AVM model using the rete mirabile (AJNR 1994, 1996 x2, 2000; Stroke 1996; Neurosurgery 1998); intricate computational hemodynamic models of brain AVMs (Neurosurgery 1996, Comput Biol Med 2019, Front Physiol 2019, J Neurointerv Surg 2022, Commun Med 2026); and the concept of transvenous retrograde TRENSh treatment of brain AVMs (Neurosurgery 1999, 2013; Commun Med 2026). His studies in reverse translational neuroimaging anatomy have led to new anatomical nomenclature in the nasal cavity (Clin Anat 2021), sacral foraminal conduits (Neuroradiology 2023), sacral posterior vertebral arch clefts and fenestrations (Radiology 2024), renaming of foramen of Monro as the interventricular canaliculus (Clin Anat 2020), and the first anatomical study of the caudolenticular gray bridges of the brain (Clin Anat 2023). His lab research in molecular imaging and therapy has led to engineering of the first split reporter system to enable potential translation of protein-protein interaction imaging to humans by using split HSV1-thymidine kinase and positron emission tomography (Nat Med 2010); and co-development of a nanoparticle-based intranasal Covid-19 vaccine for direct respiratory mucosal immunization (ACS Nano 2021). His papers have featured on the covers of 11 journals

including FASEB J., Trends in Molecular Medicine, Science Translational Medicine, Molecular Cancer Therapeutics, Oncotarget, Clinical Anatomy, Advanced Therapeutics, and J. of Materials Chemistry B.

From 2008 to 2023 he was founding Editor-in-Chief of the journal Reports in Medical Imaging, and is an editorial board member for numerous biomedical journals. He is the senior author or editor of 10 books, including "Glioblastoma: State-of-the-Art Clinical Neuroimaging", "Basilar Artery: A Clinical Review", "Glioblastoma Resistance to Chemotherapy: Molecular Mechanisms and Innovative Reversal Strategies", "Neuroimaging Anatomy: Parts 1 and 2", "What Radiology Residents Need to Know: Neuroradiology", and "The Subarachnoid Space: Percutaneous Access for Diagnosis and Image-Guided Therapies". In 2016 he was awarded a Special Faculty Permit ('eminent physician license') by the Medical Board of the state of California. In 2022, he was honored with a Lifetime Achievement Award by the Royal College of Surgeons in Ireland School of Medicine.

CLINICAL FOCUS

- Neuroradiology
- Diagnostic Neuroimaging

ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Radiology
- Member, Bio-X
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Professor of Radiology (Neuroradiology and Molecular Imaging), Stanford University School of Medicine, (2013- present)
- Director, Laboratory of Experimental and Molecular Neuroimaging (LEMNI), Molecular Imaging Program at Stanford (MIPS), (2013- present)
- Director, SIMITAR, Stanford Initiative for Multimodality Neuro-Imaging in Translational Anatomy Research (SIMITAR), (2019- present)
- Head of Academic Training (Associate Chair) in Radiology, University of Cambridge School of Clinical Medicine and Addenbrooke's Hospital, Cambridge, UK, (2007-2013)
- University Lecturer and Consultant in Neuroradiology, University of Cambridge School of Clinical Medicine and Addenbrooke's Hospital, Cambridge, UK, (2000-2013)
- Associate Professor, Neuroradiology, UCLA School of Medicine, Los Angeles, (1997-1999)
- Assistant Professor, Neuroradiology, UCLA School of Medicine, Los Angeles, (1993-1997)

HONORS AND AWARDS

- Invitational Fellowship Award, JSPS, Human Brain Research Center, Kyoto University (2025)
- Lifetime Achievement Award, Royal College of Surgeons in Ireland School of Medicine (2022)
- Summa Cum Laude Award, American Society of Neuroradiology, New York (2022)
- Certificate of Merit Award, American Society of Neuroradiology, New York (2022)
- Summa Cum Laude Award, American Society of Neuroradiology, Las Vegas (2020)
- Certificate of Merit Award, American Society of Neuroradiology, Las Vegas (2020)
- Distinguished Investigator Award, Academy of Radiology and Biomedical Imaging Research (2019)
- Guerbet Scientific Cum Laude Award, XXI Symposium Neuroradiologicum, Taipei (2018)
- Sigma Xi, nominated and elected member, Sigma Xi (2018)
- Special Faculty Permit ('eminent physician license'), Medical Board of California (2016)
- Commendation and Neurographics invitation (on 9 occasions), American Society of Neuroradiology conferences (2013-2021)

- Mid-Career Award for Established Practitioners, The Health Foundation, London (2002)
- Cum Laude Award for co-investigator research, American Society of Neuroradiology, Boston (2001)
- Wormald Grant Award, Royal College of Radiologists, London (2001)
- Charles Freer Scholarship, Radiology, University of Cambridge School of Clinical Medicine, Cambridge (2000)
- Summa Cum Laude Award for co-investigator research, American Society of Neuroradiology, Seattle (1996)
- Certificate of Merit Award, Radiological Society of North America, Chicago (1995)
- Magna Cum Laude Award, American Society of Neuroradiology, Chicago (1995)
- Cum Laude Award (on 5 occasions), American Society of Neuroradiology conferences (1994-2001)
- Honorable Mention Award, National Medical Association, Orlando (1994)
- Seed Grant for research, Radiological Society of North America (1994)
- First Place Award, National Medical Association, San Antonio (1993)
- James T. Case Radiological Foundation Cum Laude Award, Radiological Sciences, UCLA School of Medicine, Los Angeles (1993)
- Magna Cum Laude Award, American Society of Neuroradiology, Vancouver (1993)
- Travel Bursary, British Institute of Radiology, London (1993)
- William Cook Interventional Fellowship, Royal College of Radiologists, London (1993)
- Kodak Scholarship, Royal College of Radiologists, London (1992)
- Research Fellowship, Pathological Society of Great Britain and Ireland, London (1992)
- J. J. Fitzsimons Gold Medal and Prize in Surgery, Royal College of Surgeons in Ireland School of Medicine (1984)
- Stoney Memorial Gold Medal in Anatomy (Neuroanatomy), Royal College of Surgeons in Ireland School of Medicine (1981)

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 and Clinical Lecturer, 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 LRCSI, Medical School of the Royal College of Surgeons in Ireland, Dublin, and the National University of Ireland , Medicine (1984)

LINKS

- Video alma mater award: https://www.youtube.com/watch?v=yR2c3HRmrrY&ab_channel=RCSIALumni
- Editorial Commitments: https://www.dovepress.com/public_profile.php?id=18067
- Book Publication: <https://shop.elsevier.com/books/the-subarachnoid-space-percutaneous-access-for-diagnosis-and-image-guided-therapies-an-issue-of-neuroimaging-clinics-of-north-america/lanzman/978-0-443-31314-1>
- Book Publication: <https://link.springer.com/book/9783031551239>
- Book Publication: [https://www.neuroimaging.theclinics.com/issue/S1052-5149\(22\)X0003-8](https://www.neuroimaging.theclinics.com/issue/S1052-5149(22)X0003-8)
- Book Publication: [https://www.neuroimaging.theclinics.com/issue/S1052-5149\(22\)X0004-X](https://www.neuroimaging.theclinics.com/issue/S1052-5149(22)X0004-X)
- Book Publication: <https://www.elsevier.com/books/glioblastoma-resistance-to-chemotherapy-molecular-mechanisms-and-innovative-reversal-strategies/paulmurugan/978-0-12-821567-8>
- Book Publication: <https://www.frontiersin.org/research-topics/10232/advanced-neuroimaging-of-brain-metastases>

- 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/>
- Book Publication: <https://www.wiley.com/en-us/Radiology%3A+Clinical+Cases+Uncovered-p-9781405184748>
- Book Publication: <https://www.springer.com/gp/book/9781563965586>

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.

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Neuroradiology (Fellowship Program)

Publications

PUBLICATIONS

- **Mechanistically driven transnidial hemodynamic manipulations enhance simulated endovascular transvenous treatments for brain AVMs.** *Communications medicine*
Massoud, T. F., Vu, B. C., Vu, K. V., Heit, J. J., Dhawan, S. S.
2026
- **Transient Global Amnesia and High-Grade Styloidogenic Jugular Vein Stenosis.** *JAMA network open*
Muneer, M. S., Vu, K. V., Dhawan, S. S., Qazi, Y., Geisbush, T. R., Massoud, T. F.
2026; 9 (2): e260065
- **Dural Punctures Through Sacral Posterior Vertebral Arch Fusion Defects: CT Morphometric Assessment and Application in Patients With Spinal Muscular Atrophy.** *Radiology*
Dhawan, S. S., Lanzman, B., Massoud, T. F.
2024; 310 (2): e231520
- **A New Nrf2 Inhibitor Enhances Chemotherapeutic Effects in Glioblastoma Cells Carrying p53 Mutations.** *Cancers*
Afjei, R., Sadeghipour, N., Kumar, S. U., Pandrala, M., Kumar, V., Malhotra, S. V., Massoud, T. F., Paulmurugan, R.
2022; 14 (24)
- **Neuroimaging Anatomy, Part 2: Head, Neck, and Spine.** *Neuroimaging clinics of North America*
Massoud, T. F.
2022; 32 (4): xv-xvii
- **A rationally identified panel of microRNAs targets multiple oncogenic pathways to enhance chemotherapeutic effects in glioblastoma models.** *Scientific reports*
Sadeghipour, N., Kumar, S. U., Massoud, T. F., Paulmurugan, R.
2022; 12 (1): 12017
- **Neuroimaging Anatomy, Part 1: Brain and Skull.** *Neuroimaging clinics of North America*
Massoud, T. F.
2022; 32 (3): xvii-xix
- **Comparison of embolization strategies for mixed plexiform and fistulous brain arteriovenous malformations: a computational model analysis of theoretical risks of nidus rupture.** *Journal of neurointerventional surgery*
Jain, M. S., Telischak, N. A., Heit, J. J., Do, H. M., Massoud, T. F.

2021

- **Gold-Nanostar-Chitosan-Mediated Delivery of SARS-CoV-2 DNA Vaccine for Respiratory Mucosal Immunization: Development and Proof-of-Principle.** *ACS nano*
Kumar, U. S., Afjei, R., Ferrara, K., Massoud, T. F., Paulmurugan, R.
2021
- **A Critical Appraisal of Monro's Erroneous Description of the Cerebral Interventricular Foramina: Age-Related MRI Spatial Morphometry and a Proposed New Terminology.** *Clinical anatomy (New York, N.Y.)*
Matys, T. n., Brown, F. n., Zaccagna, F. n., Kirolos, R. W., Massoud, T. F.
2020
- **Intranasal delivery of targeted polyfunctional gold-iron oxide nanoparticles loaded with therapeutic microRNAs for combined theranostic multimodality imaging and presensitization of glioblastoma to temozolomide.** *Biomaterials*
Sukumar, U. K., Bose, R. J., Malhotra, M., Babikir, H. A., Afjei, R., Robinson, E., Zeng, Y., Chang, E., Habte, F., Sinclair, R., Gambhir, S. S., Massoud, T. F., Paulmurugan, et al
2019; 218: 119342
- **The protean world of non-coding RNAs in glioblastoma.** *Journal of molecular medicine (Berlin, Germany)*
Paulmurugan, R., Malhotra, M., Massoud, T. F.
2019
- **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. n., Paulmurugan, R. n., 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
- **Educational-representational alignment among MD/MBA graduates in US Senior Academic Medical Leadership: a cross-sectional study.** *BMC medical education*

- Shin, C. J., Massoud, T. F.
2026
- **Intraventricular meningiomas show size-dependent increases in peak ASL-MRI perfusion reflecting vascular heterogeneity.** *Journal of neuro-oncology*
Shin, C. J., Mahammed, A., Massoud, T. F.
2026; 177 (2)
 - **Narrower jugular bulbs and their tributaries are associated with skull base venous hyperintensity on arterial spin-labeling MRI.** *Scientific reports*
Manickam, P. V., Qazi, Y., Dhawan, S. S., Geisbush, T. R., Massoud, T. F.
2026
 - **Scalable Synthesis of Calcium Fluoride Nanoparticles as a Novel Ultrasound Contrast Agent for Imaging Tumor Targeted Delivery of Therapeutics** *CHEMICAL & BIOMEDICAL IMAGING*
Thangudu, S., Natarajan, A., Mehta, S., Devarakonda, K., Massoud, T. F., Paulmurugan, R.
2026
 - **Gaussian Mixture Modeling of MRI-Derived Torus Tubarius and Inferior Turbinate Mucosal Morphometrics: Implications for Nasal Cycling and Eustachian Tube Interventions.** *Laryngoscope investigative otolaryngology*
Alkhani, L. R., Qazi, Y., Dhawan, S. S., Bhatt, P. R., Shin, C. J., Massoud, T. F.
2025; 10 (6): e70295
 - **Mucosal Coverage of Palatine Spines: CT Morphometric Analysis and Clinical Relevance.** *Cureus*
Alkhani, L. R., Qazi, Y., Massoud, T. F.
2025; 17 (8): e89766
 - **CT Features of Advanced Pericochlear Otosclerosis: Case Report and a Reappraisal of Nomenclature.** *Current medical imaging*
Mohamed, R. A., Muneer, M. S., Massoud, T. F.
2025
 - **Correction: Afjei et al. A New Nrf2 Inhibitor Enhances Chemotherapeutic Effects in Glioblastoma Cells Carrying p53 Mutations.** *Cancers* **2022, 14, 6120.** *Cancers*
Afjei, R., Sadeghipour, N., Kumar, S. U., Pandrala, M., Kumar, V., Malhotra, S. V., Massoud, T. F., Paulmurugan, R.
2025; 17 (14)
 - **Autologous extracellular vesicles derived from conjunctival squamous cell carcinoma deliver therapeutic microRNAs to induce apoptosis in originating cancer.** *Journal of materials chemistry. B*
Thangudu, S., Mehta, S., Dhowre, H. S., Bojic, S., Haghverdi, G., Wu, A. Y., Massoud, T. F., Paulmurugan, R.
2025
 - **Correction to: Jugular bulb ASL-MRI hyperintensity and severe internal jugular vein stenosis: a potential pitfall in neuroimaging.** *Neuroradiology*
Geisbush, T. R., Dhawan, S. S., Manickam, P. V., Massoud, T. F.
2025
 - **Jugular bulb ASL-MRI hyperintensity and severe internal jugular vein stenosis: a potential pitfall in neuroimaging.** *Neuroradiology*
Geisbush, T., Dhawan, S., Manickam, P., Massoud, T.
2025
 - **Choroid plexus enlargement in idiopathic normal pressure hydrocephalus and concept proposal for noninvasive volume-reductive therapies.** *Brain research*
Dhawan, S. S., Hacein-Bey, L., Massoud, T. F.
2025: 149593
 - **Image-Guided Percutaneous Access of the Subarachnoid Space Comes of Age.** *Neuroimaging clinics of North America*
Lanzman, B. A., Massoud, T. F.
2025; 35 (1): xv-xvi
 - **Alternative Percutaneous Dural Puncture Routes: Cervical, Thoracic, Lumbar, and Sacral.** *Neuroimaging clinics of North America*
Massoud, T. F., Lanzman, B. A.

2025; 35 (1): 41-52

- **Dural Puncture Complications.** *Neuroimaging clinics of North America*
Geisbush, T. R., Matys, T., Massoud, T. F., Hacein-Bey, L.
2025; 35 (1): 53-76
- **Fluoroscopic, Computed Tomographic, and Magnetic Resonance Myelography.** *Neuroimaging clinics of North America*
Massoud, T. F., Lanzman, B. A.
2025; 35 (1): 85-104
- **Cerebrospinal Fluid Pressure Measurement and Infusion Studies Using Lumbar Puncture.** *Neuroimaging clinics of North America*
Matys, T., Massoud, T. F., Czosnyka, M., Czosnyka, Z.
2025; 35 (1): 27-40
- **Alternative Percutaneous Dural Puncture Routes: Cervical, Thoracic, Lumbar, and Sacral.** *Neuroimaging clinics of North America*
Massoud, T. F., Lanzman, B. A.
2025; 35 (1): 41-52
- **Dural Puncture Complications.** *Neuroimaging clinics of North America*
Geisbush, T. R., Matys, T., Massoud, T. F., Hacein-Bey, L.
2025; 35 (1): 53-76
- **Fluoroscopic, Computed Tomographic, and Magnetic Resonance Myelography.** *Neuroimaging clinics of North America*
Massoud, T. F., Lanzman, B. A.
2025; 35 (1): 85-104
- **Rare kissing antra of the maxillary sinuses: clinical implications.** *Surgical and radiologic anatomy : SRA*
Mohamed, R. A., Muneer, M. S., Massoud, T. F.
2024; 47 (1): 13
- **CT features of tension neck subcutaneous emphysema (tension pneumocollum).** *Diagnostic and interventional imaging*
Muneer, M. S., Mohamed, R. A., Massoud, T. F.
2024
- **External auditory canal involvement by nasopharyngeal carcinoma via eustachian tube spread: A case report.** *Radiology case reports*
Yoon, W. Y., Massoud, T. F.
2024; 19 (10): 4604-4609
- **Synthesis, characterization, and application of a biocompatible gene delivery nanocarrier constructed from gold nanostars and a chitosan-cyclodextrin-poly(ethylene imine) graft polymer** *MATERIALS ADVANCES*
Tabesh, F., Haghverdi, G., Devarakonda, K., Massoud, T. F., Paulmurugan, R.
2024
- **Correction to "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. J., Kumar, S. U., 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
2023
- **Correction to "SP94-Targeted Triblock Copolymer Nanoparticle Delivers Thymidine Kinase-p53-Nitroreductase Triple Therapeutic Gene and Restores Anticancer Function against Hepatocellular Carcinoma in Vivo".** *ACS applied materials & interfaces*
Sukumar, U. K., Rajendran, J. C., Gambhir, S. S., Massoud, T. F., Paulmurugan, R.
2023
- **Gold-Nanostar-Chitosan-Mediated Delivery of SARS-CoV-2 DNA Vaccine for Respiratory Mucosal Immunization: Development and Proof-of-Principle (vol 15, pg 17582, 2021)** *ACS NANO*
Kumar, U. S. S., Afjei, R., Ferrara, K., Massoud, T. F. F., Paulmurugan, R.
2023
- **Feasibility of percutaneous dural sac puncture via a posterior trans-sacral foraminal conduit approach: a CT morphometric analysis.** *Neuroradiology*

- Dhawan, S. S., Necker, F. N., Massoud, T. F.
2023
- **Caudolenticular Gray Bridges of the Brain: A Magnetic Resonance Imaging Study.** *Clinical anatomy (New York, N.Y.)*
Dang, B., Necker, F. N., Dhawan, S. S., Murty, T., Massoud, T. F.
2023
 - **Time to Rectify Colorblindness in Medical Research with Standardized Cohort Reporting.** *The American journal of medicine*
Wen, J. T., Massoud, T. F.
2023
 - **Atavistic and vestigial anatomical structures in the head, neck, and spine: an overview.** *Anatomical science international*
Dhawan, S. S., Yedavalli, V., Massoud, T. F.
2023
 - **Feasibility of Intrathecal Therapeutic Injections in Spinal Muscular Atrophy Patients via a Percutaneous Trans-Sacral Hiatus Route: An Initial Neuroimaging Morphometric Study.** *Muscle & nerve*
Dhawan, S. S., Trinh, A., Massoud, T. F.
2022
 - **Thoracic and Lumbosacral Spine Anatomy.** *Neuroimaging clinics of North America*
Hashmi, S. S., Seifert, K. D., Massoud, T. F.
2022; 32 (4): 889-902
 - **Oral Cavity and Salivary Glands Anatomy.** *Neuroimaging clinics of North America*
Famuyide, A., Massoud, T. F., Moonis, G.
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 - **Anatomy of the Orbit.** *Neuroimaging clinics of North America*
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