



## Arutselvan Natarajan

Senior Research Scientist - Basic Life, Rad/Molecular Imaging Program at Stanford

### Bio

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#### CURRENT ROLE AT STANFORD

Senior Scientist

#### HONORS AND AWARDS

- Extended Senior Research Fellowship, Council for Scientific and Industrial Research, India (1998)
- Research Associate Fellowship, Council for Scientific and Industrial Research, India (2001)
- Young Professional Award, Basic Science Research, Society of Nuclear Medicine Annual Meeting, San Diego, California (2006)
- Plasma Mass Spectrometry Award, UC Davis Interdisciplinary Center (2007, 2008)
- Clinical and Translational Science Center - pilot grant award, UC Davis (2007)
- Best Paper Presentation Award, International Medicinal Chemistry Conference, India, Bangalore, (2008)
- First Poster Award, Fourteenth Annual Cancer Research Symposium, UC Davis Cancer Center, Sacramento, California (2008)

#### EDUCATION AND CERTIFICATIONS

- Ph.D, Alagappa University, Karaikudi, India , Industrial Chemistry (2000)
- MS, Institution of Chemists (India), India , Bio and Pharmaceutical chemistry (1991)
- B.Sc, University of Madras, India , Chemistry (1982)

### Publications

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#### PUBLICATIONS

- **Molecular Imaging of Tumor-Infiltrating Lymphocytes in Living Animals Using a Novel mCD3 Fibronectin Scaffold.** *Bioconjugate chemistry*  
Wynter, C., Natarajan, A., John, C., Jain, K., Paulmurugan, R.  
2024
- **Preclinical evaluation of 89Zr-Panitumumab for biology-guided radiotherapy.** *International journal of radiation oncology, biology, physics*  
Natarajan, A., Khan, S., Liang, X., Nguyen, H., Das, N., Anders, D., Malik, N., Oderinde, O. M., Chin, F., Rosenthal, E., Pratz, G.  
2023
- **BEST IN PHYSICS (MULTI-DISCIPLINARY): Feasibility of Biology-Guided Radiation Therapy Using a Long-Lived Antibody PET Tracer**  
Natarajan, A., Khan, S., Anders, D., Malik, N., Nguyen, H., Oderinde, O., Chin, F., Rosenthal, E., Pratz, G.  
WILEY.2022: E560
- **FN3 linked nanobubbles as a targeted contrast agent for US imaging of cancer-associated human PD-L1.** *Journal of controlled release : official journal of the Controlled Release Society*  
Kumar, U. S., Natarajan, A., Massoud, T. F., Paulmurugan, R.

2022

- **PET imaging of TIGIT expression on tumor-infiltrating lymphocytes.** *Clinical cancer research : an official journal of the American Association for Cancer Research*

Shaffer, T., Natarajan, A., Gambhir, S. S.

2021

- **A Novel Engineered Small Protein for Positron Emission Tomography Imaging of Human Programmed Death Ligand-1 : Validation in Mouse Models and Human Cancer Tissues** *Clinical Cancer Res*

Natarajan, A., Patel, C. B., Ramakrishnan, S., Panesar, P. S., Long, S. R., Gambhir, S. S.

2018

- **Development of Novel ImmunoPET Tracers to Image Human PD-1 Checkpoint Expression on Tumor-Infiltrating Lymphocytes in a Humanized Mouse Model.** *Molecular imaging and biology*

Natarajan, A., Mayer, A. T., Reeves, R. E., Nagamine, C. M., Gambhir, S. S.

2017

- **Multiscale Framework for Imaging Radio labeled Therapeutics** *MOLECULAR PHARMACEUTICS*

Natarajan, A., Tuerkcan, S., Gambhir, S. S., Pratz, G.

2015; 12 (12): 4554-4560

- **Engineering high-affinity PD-1 variants for optimized immunotherapy and immuno-PET imaging.** *Proceedings of the National Academy of Sciences of the United States of America*

Maute, R. L., Gordon, S. R., Mayer, A. T., McCracken, M. N., Natarajan, A., Ring, N. G., Kimura, R., Tsai, J. M., Manglik, A., Kruse, A. C., Gambhir, S. S., Weissman, I. L., Ring, et al

2015; 112 (47): E6506-14

- **Novel Radiotracer for ImmunoPET Imaging of PD-1 Checkpoint Expression on Tumor Infiltrating Lymphocytes.** *Bioconjugate chemistry*

Natarajan, A., Mayer, A. T., Xu, L., Reeves, R. E., Gano, J., Gambhir, S. S.

2015; 26 (10): 2062-2069

- **Radiation Dosimetry Study of [(89)Zr]rituximab Tracer for Clinical Translation of B cell NHL Imaging using Positron Emission Tomography.** *Molecular imaging and biology*

Natarajan, A., Gambhir, S. S.

2015; 17 (4): 539-547

- **Imaging of hepatocellular carcinoma patient-derived xenografts using Zr-89-labeled anti-glypican-3 monoclonal antibody** *BIOMATERIALS*

Yang, X., Liu, H., Sun, C. K., Natarajan, A., Hu, X., Wang, X., Allegretta, M., Guttman, R. D., Gambhir, S. S., Chua, M., Cheng, Z., So, S. K.

2014; 35 (25): 6964-6971

- **A Novel Engineered Anti-CD20 Tracer Enables Early Time PET Imaging in a Humanized Transgenic Mouse Model of B-cell Non-Hodgkins Lymphoma** *CLINICAL CANCER RESEARCH*

Natarajan, A., Hackel, B. J., Gambhir, S. S.

2013; 19 (24): 6820-6829

- **Evaluation of Zr-89-rituximab Tracer by Cerenkov Luminescence Imaging and Correlation with PET in a Humanized Transgenic Mouse Model to Image NHL** *MOLECULAR IMAGING AND BIOLOGY*

Natarajan, A., Habte, F., Liu, H., Sathirachinda, A., Hu, X., Cheng, Z., Nagamine, C. M., Gambhir, S. S.

2013; 15 (4): 468-475

- **Positron Emission Tomography of Cu-64-DOTA-Rituximab in a Transgenic Mouse Model Expressing Human CD20 for Clinical Translation to Image NHL** *MOLECULAR IMAGING AND BIOLOGY*

Natarajan, A., Gowrishankar, G., Nielsen, C. H., Wang, S., Iagaru, A., Goris, M. L., Gambhir, S. S.

2012; 14 (5): 608-616

- **Development of a Novel Long-Lived ImmunoPET Tracer for Monitoring Lymphoma Therapy in a Humanized Transgenic Mouse Model** *BIOCONJUGATE CHEMISTRY*

Natarajan, A., Habte, F., Gambhir, S. S.

2012; 23 (6): 1221-1229

- **Halogenated Benzimidazole Carboxamides Target Integrin alpha(4)beta(1) on T-Cell and B-Cell Lymphomas** *CANCER RESEARCH*

Carpenter, R. D., Natarajan, A., Lau, E. Y., Andrei, M., Solano, D. M., Lightstone, F. C., DeNardo, S. J., Lam, K. S., Kurth, M. J.

2010; 70 (13): 5448-5456

- **Breast Cancer Targeting Novel microRNA-Nanoparticles for Imaging** *Conference on Multimodal Biomedical Imaging IV*  
Natarajan, A., Venugopal, S. K., DeNardo, S. J., Zern, M. A.  
SPIE-INT SOC OPTICAL ENGINEERING.2009
- **NanoLuc-Driven Multiplex Imaging Platforms Incorporating Novel G-series Coelenterazine Variants.** *Bioconjugate chemistry*  
Kamiya, G., Kitada, N., Furuta, T., Thangudu, S., Natarajan, A., Paulmurugan, R., Maki, S. A., Kim, S. B.  
2026
- **Renal cancer early diagnosis using a novel B7-H3 targeted ultrasound contrast imaging**  
Natarajan, A., Baek, J., Paulmurugan, R., Dahl, J.  
AMER ASSOC CANCER RESEARCH.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
- **Enhancing Ultrasound Molecular Imaging: Toward Real-Time RPCA-Based Filtering to Differentiate Bound and Free Microbubbles.** *IEEE transactions on ultrasonics*  
Hashemi, H. S., Hyun, D., Nguyen, N., Baek, J., Natarajan, A., Tabesh, F., Andrzejek, A., Paulmurugan, R., Dahl, J. J.  
2025
- **Imaging Ligand-Driven PPAR Activities Using Single-Chain Bioluminescent Probes.** *ACS omega*  
Kim, S. B., Furuta, T., Kamiya, G., Maki, S. A., Orioka, M., Watanabe, R., Hiruta, Y., Thangudu, S., Natarajan, A., Paulmurugan, R.  
2025; 10 (30): 33850-33861
- **Imaging Ligand-Driven PPAR Activities Using Single-Chain Bioluminescent Probes** *ACS OMEGA*  
Kim, S., Furuta, T., Kamiya, G., Maki, S. A., Orioka, M., Watanabe, R., Hiruta, Y., Thangudu, S., Natarajan, A., Paulmurugan, R.  
2025
- **Molecular Ultrasound Imaging of PD-L1 Expression on Cancer Endothelial Cells.** *Ultrasound in medicine & biology*  
Sadeghipour, N., Tabesh, F., Natarajan, A., Lutz, A., Paulmurugan, R., Kaffas, A. E.  
2025
- **Enhancing Ultrasound Molecular Imaging: Toward Real-Time RPCA-Based Filtering to Differentiate Bound and Free Microbubbles.** *ArXiv*  
Hashemi, H. S., Hyun, D., Nguyen, N., Baek, J., Natarajan, A., Tabesh, F., Andrzejek, A., Paulmurugan, R., Dahl, J. J.  
2025
- **Molecular Association Assay Systems for Imaging Protein-Protein Interactions in Mammalian Cells.** *Biosensors*  
Kim, S. B., Furuta, T., Thangudu, S., Natarajan, A., Paulmurugan, R.  
2025; 15 (5)
- **Noninvasive Bioluminescence Imaging of Serum Albumins in Living Mice.** *ACS chemical biology*  
Kim, S. B., Kamiya, G., Furuta, T., Kitada, N., Thangudu, S., Natarajan, A., Maki, S. A., Paulmurugan, R.  
2025
- **Ultra-low dose immunoPET using<sup>64</sup>Cu-rituximab tracer for a human CD20 mouse model.** *Frontiers in medicine*  
Habte, F., Natarajan, A.  
2025; 12: 1548132
- **Ultrasound Molecular Imaging: A Quantitative Metric for Vascular-Independent Targeted Microbubble Binding**  
Hashemi, H. S., Baek, J., Nguyen, N., Natarajan, A., Tabesh, F., Paulmurugan, R., Dahl, J. J., IEEE  
IEEE.2025
- **MBFormer: A Transformer model for 3D Time-Series Data Processing to Improve Bound Bubble Detection in Nondestructive Ultrasound Molecular Imaging**  
Baek, J., Lee, J., Hashemi, H. S., Natarajan, A., Tabesh, F., Paulmurugan, R., Dahl, J. J., IEEE  
IEEE.2025

- **Efficient radiolabeling of mesoporous silica nanoparticles for single-cell PET imaging.** *European journal of nuclear medicine and molecular imaging*  
Khan, S., Zhong, X., Das, N., Yu, J. H., Natarajan, A., Anders, D., Pratz, G.  
2024
- **Regiospecific Coelenterazine Analogs for Bioassays and Molecular Imaging.** *Bioconjugate chemistry*  
Kamiya, G., Kitada, N., Furuta, T., Thangudu, S., Natarajan, A., Paulmurugan, R., Kim, S. B., Maki, S. A.  
2024
- **Increased [18F]FDG uptake of radiation-induced giant cells: a single-cell study in lung cancer models.** *Npj imaging*  
Das, N., Nguyen, H. T., Lu, W. J., Natarajan, A., Khan, S., Pratz, G.  
2024; 2 (1): 14
- **Increased [18F]FDG uptake of radiation-induced giant cells: a single-cell study in lung cancer models** *npj Imaging*  
Das, N., Nguyen, H. T., Lu, W., Natarajan, A., Khan, S., Pratz, G.  
2024; 2: 1-10
- **Enhancing Ultrasound Molecular Imaging: RPCA-Based Filtering to Differentiate Tumor-Bound and Free Microbubbles**  
Hashemi, H. S., Hyun, D., Baek, J., Natarajan, A., Tabesh, F., Paulmurugan, R., Dahl, J. J., IEEE  
IEEE.2024
- **Synthesis and Evaluation of Clinically Translatable Targeted Microbubbles Using a Microfluidic Device for In Vivo Ultrasound Molecular Imaging.** *International journal of molecular sciences*  
Bam, R., Natarajan, A., Tabesh, F., Paulmurugan, R., Dahl, J. J.  
2023; 24 (10)
- **Quantitative methods for molecular ultrasound imaging**  
Sadeghipour, N., Tabesh, F., Natarajan, A., Jones, M. A., Chen, X., Paulmurugan, R., Zheng, B., El Kaffas, A.  
edited by Boehm, C., Bottenus, N.  
SPIE-INT SOC OPTICAL ENGINEERING.2023
- **Recent Trends and Opportunities for the Targeted Immuno-Nanomaterials for Cancer Theranostics Applications.** *Micromachines*  
John, C., Jain, K., Masanam, H. B., Narasimhan, A. K., Natarajan, A.  
2022; 13 (12)
- **Remotely controlled near-infrared-triggered photothermal treatment of brain tumours in freely behaving mice using gold nanostars.** *Nature nanotechnology*  
Arami, H., Kananian, S., Khalifehzadeh, L., Patel, C. B., Chang, E., Tanabe, Y., Zeng, Y., Madsen, S. J., Mandella, M. J., Natarajan, A., Peterson, E. E., Sinclair, R., Poon, et al  
2022
- **Simultaneously Tracking Multiple Single Cells Using a Dual-Layer BGO/LSO PET Scanner**  
Nguyen, H., Khan, S., Das, N., Natarajan, A., Takematsu, E., Pratz, G.  
WILEY.2022: E161
- **On Demand Biosensors for Early Diagnosis of Cancer and Immune Checkpoints Blockade Therapy Monitoring from Liquid Biopsy.** *Biosensors*  
Mummareddy, S., Pradhan, S., Narasimhan, A. K., Natarajan, A.  
1800; 11 (12)
- **A Humanized Anti-GPC3 Antibody for Immuno-Positron Emission Tomography Imaging of Orthotopic Mouse Model of Patient-Derived Hepatocellular Carcinoma Xenografts.** *Cancers*  
Natarajan, A., Zhang, H., Ye, W., Huttad, L., Tan, M., Chua, M., Gambhir, S. S., So, S. K.  
2021; 13 (16)
- **Permeabilizing Cell Membranes with Electric Fields.** *Cancers*  
Aguilar, A. A., Ho, M. C., Chang, E., Carlson, K. W., Natarajan, A., Marciano, T., Bomzon, Z., Patel, C. B.  
2021; 13 (9)
- **Permeabilizing Cell Membranes with Electric Fields** *CANCERS*  
Aguilar, A. A., Ho, M. C., Chang, E., Carlson, K. W., Natarajan, A., Marciano, T., Bomzon, Z., Patel, C. B.

2021; 13 (9)

- **Ultrasound Triggered Co-Delivery of Therapeutic MicroRNAs and a Triple Suicide Gene Therapy Vector by Using Biocompatible Polymer Nanoparticles for Improved Cancer Therapy in Mouse Models** *ADVANCED THERAPEUTICS*  
Kumar, S., Wang, H., Telichko, A. V., Natarajan, A., Bettinger, T., Cherkaoui, S., Massoud, T. F., Dahl, J. J., Paulmurugan, R.  
2021
- **COMBINING THE GLIOBLASTOMA CELL MEMBRANE-PERMEABILIZING EFFECT OF TUMOR TREATING FIELDS (TTFIELDS) WITH WITHA FERIN A (AND OTHER) CHEMOTHERAPY**  
Chang, E., Patel, C., Young, C., Flores, T., Zeng, Y., Joubert, L., Arami, H., Natarajan, A., Sinclair, R., Gambhir, S.  
OXFORD UNIV PRESS INC.2020: 30
- **<sup>64</sup>Cu-immunoPET imaging: bench to bedside.** *The quarterly journal of nuclear medicine and molecular imaging : official publication of the Italian Association of Nuclear Medicine (AIMN) [and] the International Association of Radiopharmacology (IAR), [and] Section of the Society of...*  
Natarajan, A.  
2020
- **Two Patient Studies of a Companion Diagnostic Immuno-Positron Emission Tomography (PET) Tracer for Measuring Human CA6 Expression in Cancer for Antibody Drug Conjugate (ADC) Therapy.** *Molecular imaging*  
Natarajan, A., Srinivas, S. M., Azevedo, C., Greene, L., Bauchet, A., Jouannot, E., Lacoste-Bourgeacq, A., Guizon, I., Cohen, P., Naneix, A., Ilovich, O., Cisneros, J., Rupanarayan, et al  
2020; 19: 1536012120939398
- **Reconstructed Apoptotic Bodies as Targeted "Nano Decoys" to Treat Intracellular Bacterial Infections within Macrophages and Cancer Cells.** *ACS nano*  
Bose, R. J., Tharmalingam, N. n., Garcia Marques, F. J., Sukumar, U. K., Natarajan, A. n., Zeng, Y. n., Robinson, E. n., Bermudez, A. n., Chang, E. n., Habte, F. n., Pitteri, S. J., McCarthy, J. R., Gambhir, et al  
2020
- **TUMOR TREATING FIELDS LEADS TO CHANGES IN MEMBRANE PERMEABILITY AND INCREASED PENETRATION BY ANTI-GLIOMA DRUGS**  
Chang, E., Patel, C., Beinat, C., Young, C., Flores, T., Zeng, Y., Joubert, L., Arami, H., Natarajan, A., Sinclair, R., Gambhir, S.  
OXFORD UNIV PRESS INC.2019: 93
- **Engineering of a novel subnanomolar affinity fibronectin III domain binder targeting human programmed death-ligand 1.** *Protein engineering, design & selection : PEDS*  
Ramakrishnan, S., Natarajan, A., Chan, C. T., Panesar, P. S., Gambhir, S. S.  
2019
- **Evaluation of integrin alphavbeta6 cystine knot PET tracers to detect cancer and idiopathic pulmonary fibrosis.** *Nature communications*  
Kimura, R. H., Wang, L., Shen, B., Huo, L., Tummers, W., Filipp, F. V., Guo, H. H., Haywood, T., Abou-Elkacem, L., Baratto, L., Habte, F., Devulapally, R., Witney, et al  
2019; 10 (1): 4673
- **Tumor treating fields increases membrane permeability in glioblastoma cells**  
Chang, E., Patel, C., Pohling, C., Young, C., Song, J., Flores, T. A., Zeng, Y., Joubert, L., Arami, H., Natarajan, A., Sinclair, R., Gambhir, S. S.  
AMER ASSOC CANCER RESEARCH.2019
- **Highly bright and stable NIR-BRET with blue-shifted coelenterazine derivatives for deep-tissue imaging of molecular events in vivo.** *Theranostics*  
Nishihara, R., Paulmurugan, R., Nakajima, T., Yamamoto, E., Natarajan, A., Afjei, R., Hiruta, Y., Iwasawa, N., Nishiyama, S., Citterio, D., Sato, M., Kim, S. B., Suzuki, et al  
2019; 9 (9): 2646-2661
- **A Novel Engineered Small Protein for Positron Emission Tomography Imaging of Human Programmed Death Ligand-1: Validation in Mouse Models and Human Cancer Tissues.** *Clinical cancer research : an official journal of the American Association for Cancer Research*  
Natarajan, A., Patel, C. B., Ramakrishnan, S., Panesar, P. S., Long, S. R., Gambhir, S. S.  
2019; 25 (6): 1774-1785
- **Highly bright and stable NIR-BRET with blue-shifted coelenterazine derivatives for deep-tissue imaging of molecular events in vivo** *THERANOSTICS*

- Nishihara, R., Paulmurugan, R., Nakajima, T., Yamamoto, E., Natarajan, A., Afjei, R., Hiruta, Y., Iwasawa, N., Nishiyama, S., Citterio, D., Sato, M., Kim, S., Suzuki, et al  
2019; 9 (9): 2646–61
- **Ligand-activated BRET9 imaging for measuring protein-protein interactions in living mice.** *Chemical communications (Cambridge, England)*  
Bae Kim, S. n., Fujii, R. n., Natarajan, A. n., Massoud, T. F., Paulmurugan, R. n.  
2019
  - **FN3 Protein Conjugates for Cancer Diagnosis and Imaging Studies.** *Methods in molecular biology (Clifton, N.J.)*  
Natarajan, A., Abou-Elkacem, L.  
2019; 2033: 301–13
  - **A blood biomarker for monitoring response to anti-EGFR therapy.** *Cancer biomarkers : section A of Disease markers*  
Hughes, N. P., Xu, L., Nielsen, C. H., Chang, E., Hori, S. S., Natarajan, A., Lee, S., Kjar, A., Kani, K., Wang, S. X., Mallick, P., Gambhir, S. S.  
2018
  - **Dosimetry Prediction for Clinical Translation of 64Cu-Pembrolizumab ImmunoPET Targeting Human PD-1 Expression.** *Scientific reports*  
Natarajan, A., Patel, C. B., Habte, F., Gambhir, S. S.  
2018; 8 (1): 633
  - **Quantification of Cerenkov Luminescence Imaging (CLI) Comparable With 3-D PET Standard Measurements.** *Molecular imaging*  
Habte, F., Natarajan, A., Paik, D. S., Gambhir, S. S.  
2018; 17: 1536012118788637
  - **Tumor treating fields increases membrane permeability in glioblastoma cells.** *Cell death discovery*  
Chang, E. n., Patel, C. B., Pohling, C. n., Young, C. n., Song, J. n., Flores, T. A., Zeng, Y. n., Joubert, L. M., Arami, H. n., Natarajan, A. n., Sinclair, R. n., Gambhir, S. S.  
2018; 4: 113
  - **Dosimetry Prediction for Clinical Translation of 64Cu-Pembrolizumab ImmunoPET Targeting Human PD-1 Expression** *Scientific Reports*  
Natarajan, A., Patel, C. B., Habte, F., Gambhir, S. S.  
2018
  - **Tumor Treating Fields Increases Membrane Permeability in Glioblastoma Cells** *Cell Death Discovery*  
Chang, E., Patel, C. B., Pohling, C., Young, C., Song, J., Flores, T., Zeng, Y., Joubert, L. M., Arami, H., Natarajan, A., Sinclair, R., Gambhir, S. S.  
2018; 4
  - **Practical Immuno-PET Radiotracer Design Considerations for Human Immune Checkpoint Imaging** *JOURNAL OF NUCLEAR MEDICINE*  
Mayer, A. T., Natarajan, A., Gordon, S. R., Maute, R. L., McCracken, M. N., Ring, A. M., Weissman, I. L., Gambhir, S. S.  
2017; 58 (4): 538-546
  - **Imaging B cells in a mouse model of multiple sclerosis using (64)Cu-Rituximab-PET.** *Journal of nuclear medicine : official publication, Society of Nuclear Medicine*  
James, M. L., Hoehne, A. n., Mayer, A. T., Lechtenberg, K. n., Moreno, M. n., Gowrishankar, G. n., Ilovich, O. n., Natarajan, A. n., Johnson, E. M., Nguyen, J. n., Quach, L. n., Han, M. n., Buckwalter, et al  
2017
  - **Practical ImmunoPET radiotracer design considerations for human immune checkpoint imaging.** *Journal of nuclear medicine : official publication, Society of Nuclear Medicine*  
Mayer, A. T., Natarajan, A., Gordon, S., Maute, R., McCracken, M., Ring, A., Weissman, I., Gambhir, S. S.  
2016
  - **AshwaMAX and Withaferin A inhibits gliomas in cellular and murine orthotopic models** *JOURNAL OF NEURO-ONCOLOGY*  
Chang, E., Pohling, C., Natarajan, A., Witney, T. H., Kaur, J., Xu, L., Gowrishankar, G., D'Souza, A. L., Murty, S., Schick, S., Chen, L., Wu, N., Khaw, et al  
2016; 126 (2): 253-264
  - **AshwaMAX and Withaferin A inhibits gliomas in cellular and murine orthotopic models.** *Journal of neuro-oncology*  
Chang, E., Pohling, C., Natarajan, A., Witney, T. H., Kaur, J., Xu, L., Gowrishankar, G., D'Souza, A. L., Murty, S., Schick, S., Chen, L., Wu, N., Khaw, et al  
2016; 126 (2): 253-64

- **Multiscale Framework for Imaging Radiolabeled Therapeutics.** *Molecular pharmaceuticals*  
Natarajan, A., Türkcan, S., Gambhir, S. S., Pratz, G.  
2015; 12 (12): 4554-4560
- **Engineering high-affinity PD-1 variants for optimized immunotherapy and immuno-PET imaging** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Maute, R. L., Gordon, S. R., Mayer, A. T., McCracken, M. N., Natarajan, A., Ring, N. G., Kimura, R., Tsai, J. M., Manglik, A., Kruse, A. C., Gambhir, S. S., Weissman, I. L., Ring, et al  
2015; 112 (47): E6506-E6514
- **Development and Validation of an Immuno-PET Tracer as a Companion Diagnostic Agent for Antibody-Drug Conjugate Therapy to Target the CA6 Epitope.** *Radiology*  
Ilovich, O., Natarajan, A., Hori, S., Sathirachinda, A., Kimura, R., Srinivasan, A., Gebauer, M., Kruij, J., Focken, I., Lange, C., Carrez, C., Sassoon, I., Blanc, et al  
2015; 276 (1): 191-198
- **Validation of 64Cu-DOTA-rituximab injection preparation under good manufacturing practices: a PET tracer for imaging of B-cell non-Hodgkin lymphoma.** *Molecular imaging*  
Natarajan, A., Arksey, N., Iagaru, A., Chin, F. T., Gambhir, S. S.  
2015; 14
- **Validation of 64Cu-DOTA-rituximab injection preparation under good manufacturing practices: a PET tracer for imaging of B-cell non-Hodgkin lymphoma.** *Molecular imaging*  
Natarajan, A., Arksey, N., Iagaru, A., Chin, F. T., Gambhir, S. S.  
2015; 14
- **Imaging of hepatocellular carcinoma patient-derived xenografts using (89)Zr-labeled anti-glypican-3 monoclonal antibody.** *Biomaterials*  
Yang, X., Liu, H., Sun, C. K., Natarajan, A., Hu, X., Wang, X., Allegretta, M., Guttman, R. D., Gambhir, S. S., Chua, M. S., Cheng, Z., So, S. K.  
2014; 35 (25): 6964-71
- **A simple model for deep tissue attenuation correction and large organ analysis of Cerenkov luminescence imaging** *Medical Imaging - Physics of Medical Imaging*  
Habte, F., Natarajan, A., Paik, D. S., Gambhir, S. S.  
SPIE-INT SOC OPTICAL ENGINEERING.2014
- **A general chemical synthesis platform for crosslinking multivalent single chain variable fragments** *ORGANIC & BIOMOLECULAR CHEMISTRY*  
Schellinger, J. G., Kudupudi, A., Natarajan, A., Du, W., DeNardo, S. J., Gervay-Hague, J.  
2012; 10 (8): 1521-1526
- **The Remarkable Stability of Chimeric, Sialic Acid-derived alpha/delta-Peptides in Human Blood Plasma** *CHEMICAL BIOLOGY & DRUG DESIGN*  
Saludes, J. P., Natarajan, A., DeNardo, S. J., Gervay-Hague, J.  
2010; 75 (5): 455-460
- **Acute liver injury upregulates microRNA-491\_5p in mice, and its overexpression sensitizes Hep G2 cells for tumour necrosis factor-alpha-induced apoptosis** *LIVER INTERNATIONAL*  
Yoon, S., Kim, T., Natarajan, A., Wang, S., Choi, J., Wu, J., Zern, M. A., Venugopal, S. K.  
2010; 30 (3): 376-387
- **Hexa-arginine enhanced uptake and residualization of selective high affinity ligands by Raji lymphoma cells** *MOLECULAR CANCER*  
Balhorn, R., Hok, S., DeNardo, S., Natarajan, A., Mirick, G., Corzett, M., DeNardo, G.  
2009; 8
- **In-111-LLP2A-DOTA Polyethylene Glycol-Targeting alpha 4 beta 1 Integrin: Comparative Pharmacokinetics for Imaging and Therapy of Lymphoid Malignancies** *JOURNAL OF NUCLEAR MEDICINE*  
DeNardo, S. J., Liu, R., Albrecht, H., Natarajan, A., Sutcliffe, J. L., Anderson, C., Peng, L., Ferdani, R., Cherry, S. R., Lam, K. S.  
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