



Avnesh Thakor

Associate Professor of Radiology (Pediatric Radiology)

Radiology - Pediatric Radiology

CLINICAL OFFICE (PRIMARY)

- **LPCH Pediatric Radiology**

725 Welch Rd

MC 5913

Palo Alto, CA 94304

Tel (650) 736-4747

Fax (650) 721-9778

ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Cheryl Yee - Administrative Associate

Email cyee@stanford.edu

Tel (650) 736 3520

Bio

BIO

Dr Thakor is adult and pediatric-certified Interventional Radiologist, and Physician-Scientist, who practices at Stanford University.

He runs and directs a translational laboratory at Stanford University called Interventional Radiology Innovation at Stanford (IRIS). His vision is to develop the area of "Precision Delivery" in which targeted delivery approaches are used to locally deliver drug, gene, cell and cell-free therapies directly to organs using image-guided endovascular (i.e. within blood vessels), percutaneous (i.e. through the skin), endoluminal (i.e. within the bowel, respiratory or urinary system), and even using device implantation (i.e. bioscaffolds) approaches.

His work focuses on using Precision Delivery strategies to ensure mesenchymal stem cells (MSCs), and their extracellular vesicles (EVs), can be delivered directly to target tissues or are coupled directly with target cells using novel bioscaffolds. His team works on the pancreas (for diabetes), kidney (for acute kidney injury), brain (for neurodegenerative conditions), lungs (for acute respiratory distress syndrome) and skin (for wound healing). They have also been investigating the use of focused ultrasound to modulate the microenvironment of injured tissues for stem cell homing and stimulating intrinsic tissue regeneration. In other work, his team are investigating the intrinsic molecular and regenerative signatures of mesenchymal stem cell therapies using genomic and proteomic profiling, and how these can be changed using focused ultrasound priming approaches.

As a physician-scientist, Dr Thakor also makes sure that these innovations (i.e. technologies, therapies and devices) are effectively translated from the benchtop to the bedside and to that effect, he is a PI and Co-I on several clinical trials.

CLINICAL FOCUS:

Interventional Radiology - Pediatric and Adult

Medical Devices

ACADEMIC FOCUS:

Precision Delivery
Focused Ultrasound
Cell Therapy
Mesenchymal stem cells and their derived extracellular vesicles
Bioscaffolds
Microenvironment Modulation

SUBJECT FOCUS:

Pancreas Regeneration and Islet Transplantation
Kidney Regeneration
Brain Regeneration
Liver Regeneration
Skin Regeneration
Solid Organ Tumors

<https://www.stanfordiris.com/>

CLINICAL FOCUS

- Pediatric Interventional Radiology
- Interventional Radiology
- Cell Therapy
- Mesenchymal Stem Cells
- Islet Transplantation
- Ablation Techniques
- High Intensity Focused Ultrasound Therapy
- Pediatric Radiology

ACADEMIC APPOINTMENTS

- Associate Professor - University Medical Line, Radiology - Pediatric Radiology
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Physician Scientist, Radiology, (2015- present)
- Assistant Professor, Radiology - Interventional (Pediatric and Adult), (2015- present)

HONORS AND AWARDS

- Society for Reproductive Investigation President's Presenter Award, Society for Reproductive Investigation (2007)
- NIHR Academic Clinical Fellowship, National Institute for Health Research (2008)
- PEEL Medical Research Trust Fellowship, PEEL Foundation (2008)
- American Cancer Society International Fellowship for Beginning Investigators (ACSBI), American Cancer Society (2009)
- British Institute of Radiology Philips Research Fellowship, British Institute of Radiology (2009)
- European Association for Cancer Travel Research Fellowship, European Association for Cancer Research (2009)
- Terumo Interventional Radiology Award, Terumo Medical Corporation (2012)
- Karol Slicher Cancer Research Fellowship, Royal College of Radiologists (2014)
- Biodesign Fellowship, Stanford (2018)
- Earnest Ring Fellowship, SIR (2018)
- Faculty Scholarship, MCHRI (2018)
- Clinical Translational Fellowship, Eureka and MCHRI (2020)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, General Medical Council (UK) (2006 - present)
- Member (Fellow), Royal College of Radiologists (2012 - present)

PROFESSIONAL EDUCATION

- Fellowship: University of Toronto (2015) Canada
- Fellowship: University Of British Columbia (2014) Canada
- Board Certification: Diagnostic Radiology, Royal College of Radiologist (2012)
- Internship: University of Cambridge School of Clinical Medicine (2008) England
- Medical Education: University of Cambridge School of Clinical Medicine (2006) England
- BA, University of Cambridge , Physiology (2001)
- MA, University of Cambridge , Physiology (2005)
- MB BChir, University of Cambridge , Medicine (2006)
- PhD, University of Cambridge , Fetal Cardiovascular Physiology (2006)
- FHEA, Higher Education Academy , Teaching (2009)
- MSc, University of London , Cancer Therapeutics (2010)
- FRCR(IR), Royal College of Radiologists , Radiology (Interventional Radiology sub-specialization) (2012)
- MD, University of Cambridge/Stanford University , Molecular Imaging and Nanotechnology (2013)
- Fellowship, University of Cambridge - Addenbrookes Hospital , Adult Interventional Radiology (2013)
- Fellowship, University of British Columbia - Vancouver General Hospital , Adult Interventional Radiology (2014)
- Fellowship, University of Toronto - SickKids Hospital , Pediatric Interventional Radiology (2015)

LINKS

- Thakor Lab: <https://www.stanfordiris.com>
- LinkedIn Profile: <https://www.linkedin.com/in/avnesh-thakor-729971a0/>

Research & Scholarship

RESEARCH INTERESTS

- Technology and Education

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Thakor is a Physician Scientist at Stanford University. He is dual fellowship trained in both pediatric and adult Interventional Radiology, and holds a joint appointment as an attending Interventional Radiologist at Lucile Packard Children's Hospital and Stanford University Medical Center. His clinical interests are in pediatric Interventional Radiology, islet transplantation and focused ultrasound therapy.

Dr. Thakor is an Attending Interventional Radiologist who runs his own translational laboratory at Stanford University investigating the use of mesenchymal stem cells (MSCs) based therapies (which includes both the parent cell and their extra-cellular vesicles (EVs)), for multiple disease states given their anti-inflammatory, pro-angiogenic and immunomodulatory properties. In particular, Dr. Thakor's team has been focusing on islet transplantation, pancreas, kidney, lung, skin and neuronal regeneration.

His work focuses on: (i) understanding the genomic and proteomic profiles of different sources of MSCs and their derived EVs, (ii) developing novel Precision Delivery strategies to deliver and home these MSC-based therapies to target tissues, (iii) using focused ultrasound to optimize the injured tissue microenvironment for these therapies and then (iv) imaging the biodistribution of MSCs with novel imaging probes. By translating stem cell therapies into patients using minimally invasive strategies, his team is leading the efforts in a new emerging field called "Interventional Regenerative Medicine (IRM)". In addition, his team has been developing multi-functional bioscaffolds and nanoplatforms to facilitate the clinical translation of different cellular therapies.

CLINICAL TRIALS

- High Dose Steroid Therapy to Treat Flares in Patients With Inflammatory Bowel Disease (IBD), Recruiting

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Shashank Chetty, Alix Guevara Tique, Shobha Regmi

Postdoctoral Research Mentor

Steven Levitte

Publications

PUBLICATIONS

- **Precision Delivery of Steroids as a Rescue Therapy for Gastrointestinal Graft-versus-Host Disease in Pediatric Stem Cell Transplant Recipients.** *Journal of clinical medicine*
Levitte, S., Ganguly, A., Frolik, S., Guevara-Tique, A. A., Patel, S., Tadas, A., Klein, O., Shyr, D., Agarwal-Hashmi, R., Beach, L., Callard, E., Weinacht, K., Bertaina, et al
2023; 12 (13)
- **Transjugular intrahepatic portosystemic shunt with portal vein recannulation (TIPS-PVR) in pediatric patients.** *Pediatric transplantation*
Liu, A., Obi, C., Thakor, A. S.
2023: e14554
- **# Cell and Autophagy: What Do We Know?** *Biomolecules*

- Mohammadi-Motlagh, H. R., Sadeghalvad, M., Yavari, N., Primavera, R., Soltani, S., Chetty, S., Ganguly, A., Regmi, S., Fløyel, T., Kaur, S., Mirza, A. H., Thakor, A. S., Pociot, et al
2023; 13 (4)
- **Case Series of Precision Delivery of Methylprednisolone in Pediatric Inflammatory Bowel Disease: Feasibility, Clinical Outcomes, and Identification of a Vasculitic Transcriptional Program.** *Journal of clinical medicine*
Levitte, S., Yarani, R., Ganguly, A., Martin, L., Gubatan, J., Nadel, H. R., Franc, B., Gugig, R., Syed, A., Goyal, A., Park, K. T., Thakor, A. S.
2023; 12 (6)
 - **Low-count whole-body PET/MRI restoration: an evaluation of dose reduction spectrum and five state-of-the-art artificial intelligence models.** *European journal of nuclear medicine and molecular imaging*
Wang, Y. J., Wang, P., Adams, L. C., Sheybani, N. D., Qu, L., Sarrami, A. H., Theruvath, A. J., Gatidis, S., Ho, T., Zhou, Q., Pribnow, A., Thakor, A. S., Rubin, et al
2023
 - **Extracellular vesicles in Alzheimer's disease: from pathology to therapeutic approaches.** *Neural regeneration research*
Garcia-Contreras, M., Thakor, A. S.
2023; 18 (1): 18-22
 - **Precision Delivery of Steroids as a Rescue Therapy for Gastrointestinal Graft-versus-Host Disease in Pediatric Stem Cell Transplant Recipients** *Journal of Clinical Medicine*
Levitte, s., Ganguly, A., Frolik, S., Guevara-Tique, A., et al
2023; 12 (4229)
 - **Integrated transcriptome-proteome analyses of human stem cells reveal source-dependent differences in their regenerative signature.** *Stem cell reports*
Ganguly, A., Swaminathan, G., Garcia-Marques, F., Regmi, S., Yarani, R., Primavera, R., Chetty, S., Bermudez, A., Pitteri, S. J., Thakor, A. S.
2022
 - **Umbilical cord mesenchymal stromal cells-from bench to bedside.** *Frontiers in cell and developmental biology*
Chetty, S., Yarani, R., Swaminathan, G., Primavera, R., Regmi, S., Rai, S., Zhong, J., Ganguly, A., Thakor, A. S.
2022; 10: 1006295
 - **Update on Pediatric Interventional Radiology.** *Radiographics : a review publication of the Radiological Society of North America, Inc*
Young, V. A., Thakor, A. S., Josephs, S. C.
2022; 42 (6): 1580-1597
 - **Human placenta-derived mesenchymal stromal cells transfusion in a critically ill infant diagnosed with Coronavirus Disease 2019 (COVID-19): A case report.** *Transfusion and apheresis science : official journal of the World Apheresis Association : official journal of the European Society for Haemapheresis*
Payandeh, M., Habibi, R., Norooznezhad, A. H., Hoseinkhani, Z., Mansouri, F., Yarani, R., Thakor, A. S., Bakhtiari, M., Esmaili, F., Mansouri, K.
2022: 103454
 - **Mesenchymal stromal cells for the treatment of Alzheimer's disease: Strategies and limitations.** *Frontiers in molecular neuroscience*
Regmi, S., Liu, D. D., Shen, M., Kevadiya, B. D., Ganguly, A., Primavera, R., Chetty, S., Yarani, R., Thakor, A. S.
2022; 15: 1011225
 - **Autologous conditioned serum for degenerative diseases and prospects.** *Growth factors (Chur, Switzerland)*
Shakouri, S. K., Dolati, S., Santhakumar, J., Thakor, A. S., Yarani, R.
2021: 1-12
 - **Human placental mesenchymal stromal cell-derived exosome-enriched extracellular vesicles for chronic cutaneous graft-versus-host disease: A case report.** *Journal of cellular and molecular medicine*
Norooznezhad, A. H., Yarani, R., Payandeh, M., Hoseinkhani, Z., Kiani, S., Taghizadeh, E., Thakor, A. S., Mansouri, K.
2021
 - **Diabetes complications and extracellular vesicle therapy.** *Reviews in endocrine & metabolic disorders*
Soltani, S., Mansouri, K., Parvaneh, S., Thakor, A. S., Pociot, F., Yarani, R.
2021
 - **Endogenous NO-release Carbon Nanodots for Tumor-specific Gas Therapy.** *Acta biomaterialia*
Liu, X., Liu, Y., Thakor, A. S., Kevadiya, B. D., Cheng, J., Chen, M., Li, Y., Xu, Q., Wu, Q., Wu, Y., Zhang, G.
2021

- **Imaging cancer cells with nanostructures: Prospects of nanotechnology driven non-invasive cancer diagnosis.** *Advances in colloid and interface science*
Augustine, R., Mamun, A. A., Hasan, A., Salam, S. A., Chandrasekaran, R., Ahmed, R., Thakor, A. S.
2021; 294: 102457
- **Human adipose tissue-derived mesenchymal stem cells and their extracellular vesicles modulate lipopolysaccharide activated human microglia.** *Cell death discovery*
Garcia-Contreras, M., Thakor, A. S.
2021; 7 (1): 98
- **Artificial intelligence enables whole-body positron emission tomography scans with minimal radiation exposure.** *European journal of nuclear medicine and molecular imaging*
Wang, Y. J., Baratto, L., Hawk, K. E., Theruvath, A. J., Pribnow, A., Thakor, A. S., Gatidis, S., Lu, R., Gummidipundi, S. E., Garcia-Diaz, J., Rubin, D., Daldrup-Link, H. E.
2021
- **Enhancing islet transplantation using a biocompatible collagen-PDMS bioscaffold enriched with dexamethasone-microplates.** *Biofabrication*
Primavera, R., Razavi, M., Kevadiya, B. D., Wang, J., Vykunta, A., Di Mascolo, D., Decuzzi, P., Thakor, A.
2021
- **Silicone-based bioscaffolds for cellular therapies.** *Materials science & engineering. C, Materials for biological applications*
Razavi, M. n., Primavera, R. n., Vykunta, A. n., Thakor, A. S.
2021; 119: 111615
- **Localized drug delivery graphene bioscaffolds for cotransplantation of islets and mesenchymal stem cells.** *Science advances*
Razavi, M., Wang, J., Thakor, A. S.
2021; 7 (47): eabf9221
- **Insulin Granule-Loaded MicroPlates for Modulating Blood Glucose Levels in Type-1 Diabetes.** *ACS applied materials & interfaces*
Primavera, R., Bellotti, E., Di Mascolo, D., Di Francesco, M., Wang, J., Kevadiya, B. D., De Pascale, A., Thakor, A. S., Decuzzi, P.
2021
- **Cellular uptake and retention of nanoparticles: Insights on particle properties and interaction with cellular components** *MATERIALS TODAY COMMUNICATIONS*
Augustine, R., Hasan, A., Primavera, R., Wilson, R., Thakor, A. S., Kevadiya, B. D.
2020; 25
- **Hybrid Polydimethylsiloxane Bioscaffold-Intravascular Catheter for Cellular Therapies.** *ACS applied bio materials*
Hu, S., Primavera, R., Razavi, M., Avadhani, A., Wang, J., Thakor, A. S.
2020; 3 (10): 6626-6632
- **Altered Cardiovascular Defense to Hypotensive Stress in the Chronically Hypoxic Fetus** *HYPERTENSION*
Allison, B. J., Brain, K. L., Niu, Y., Kane, A. D., Herrera, E. A., Thakor, A. S., Botting, K. J., Cross, C. M., Itani, N., Shaw, C. J., Skeffington, K. L., Beck, C., Giussani, et al
2020; 76 (4): 1195–1207
- **Pulsed focused ultrasound enhances the therapeutic effect of mesenchymal stromal cell-derived extracellular vesicles in acute kidney injury.** *Stem cell research & therapy*
Ullah, M., Liu, D. D., Rai, S., Razavi, M., Concepcion, W., Thakor, A. S.
2020; 11 (1): 398
- **Loop-Mediated Isothermal Amplification (LAMP): A Rapid, Sensitive, Specific, and Cost-Effective Point-of-Care Test for Coronaviruses in the Context of COVID-19 Pandemic.** *Biology*
Augustine, R., Hasan, A., Das, S., Ahmed, R., Mori, Y., Notomi, T., Kevadiya, B. D., S Thakor, A.
2020; 9 (8)
- **HSP70-Mediated NLRP3 Inflammasome Suppression Underlies Reversal of Acute Kidney Injury Following Extracellular Vesicle and Focused Ultrasound Combination Therapy.** *International journal of molecular sciences*
Ullah, M., Liu, D. D., Rai, S., Concepcion, W., Thakor, A. S.
2020; 21 (11)
- **Liposomal nanotheranostics for multimode targeted in vivo bioimaging and near-infrared light mediated cancer therapy.** *Communications biology*

- Prasad, R., Jain, N. K., Yadav, A. S., Chauhan, D. S., Devrukhkar, J., Kumawat, M. K., Shinde, S., Gorain, M., Thakor, A. S., Kundu, G. C., Conde, J., Srivastava, R.
2020; 3 (1): 284
- **Dynamic Hydrodissection for Skin Protection during Cryoablation of Superficial Lesions.** *Journal of vascular and interventional radiology : JVIR*
Sandberg, J. K., Shoaf, K. R., Lungren, M. P., Young, V. A., Josephs, S., Thakor, A. S.
2020
 - **A Collagen Based Cryogel Bioscaffold that Generates Oxygen for Islet Transplantation.** *Advanced functional materials*
Razavi, M., Primavera, R., Kevadiya, B. D., Wang, J., Buchwald, P., Thakor, A. S.
2020; 30 (15)
 - **The role of ultrasound in enhancing mesenchymal stromal cell-based therapies.** *Stem cells translational medicine*
Liu, D. D., Ullah, M., Concepcion, W., Dahl, J. J., Thakor, A. S.
2020
 - **Emerging role of stem cell-derived extravesicular microRNAs in age-associated human diseases and in different therapies of longevity.** *Ageing Research Reviews*
Ullah, M., Ng, N. N., Concepcion, W., Thakor, A. S.
2020; 57: 1-14
 - **Emerging Nano- and Micro-Technologies Used in the Treatment of Type-1 Diabetes.** *Nanomaterials (Basel, Switzerland)*
Primavera, R. n., Kevadiya, B. D., Swaminathan, G. n., Wilson, R. J., De Pascale, A. n., Decuzzi, P. n., Thakor, A. S.
2020; 10 (4)
 - **Reversal of Hyperglycemia and Suppression of Type 1 Diabetes in the NOD Mouse with Apoptotic DNA Immunotherapy™ (ADi™), ADi-100.** *Biomedicines*
Alleva, D. G., Rezaee, M. n., Yip, L. n., Ren, G. n., Rosenberg, J. n., Concepcion, W. n., Escher, A. n., Shabahang, S. n., Thakor, A. S.
2020; 8 (3)
 - **The Paracrine Function of Mesenchymal Stem Cells in Response to Pulsed Focused Ultrasound** *CELL TRANSPLANTATION*
Razavi, M., Rezaee, M., Telichko, A., Inan, H., Dahl, J., Demirci, U., Thakor, A. S.
2020; 29: 963689720965478
 - **Locoregional delivery of stem cell-based therapies.** *Science translational medicine*
Ng, N. N., Thakor, A. S.
2020; 12 (547)
 - **Rapid Antibody-Based COVID-19 Mass Surveillance: Relevance, Challenges, and Prospects in a Pandemic and Post-Pandemic World.** *Journal of clinical medicine*
Augustine, R. n., Das, S. n., Hasan, A. n., S, A. n., Abdul Salam, S. n., Augustine, P. n., Dalvi, Y. B., Varghese, R. n., Primavera, R. n., Yassine, H. M., Thakor, A. S., Kevadiya, B. D.
2020; 9 (10)
 - **Emerging role of stem cell-derived extravesicular microRNAs in age-associated human diseases and in different therapies of longevity.** *Ageing Research Reviews*
Ullah, M., Ng, N. N., Concepcion, W., Thakor, A. S.
2020
 - **A Novel Approach to Deliver Therapeutic Extracellular Vesicles Directly into the Mouse Kidney** *Cells*
Ullah, M., Liu, D. D., Rai, S., Razavi, M., Choi, J., Wang, J., Concepcion, W., Thakor, A. S.
2020; 9 (4): 937
 - **Stem cell-derived extracellular vesicles: role in oncogenic processes, bioengineering potential, and technical challenges.** *Stem cell research & therapy*
Ullah, M., Qiao, Y., Concepcion, W., Thakor, A. S.
2019; 10 (1): 347
 - **A Study Comparing the Effects of Targeted Intra-Arterial and Systemic Chemotherapy in an Orthotopic Mouse Model of Pancreatic Cancer.** *Scientific reports*
Rezaee, M., Wang, J., Razavi, M., Ren, G., Zheng, F., Hussein, A., Ullah, M., Thakor, A. S.
2019; 9 (1): 15929

- **Imaging Tumor Oxidative Stress with Surface Enhanced Raman Scattering Gold Nanoparticles** *JOURNAL OF BIOMEDICAL NANOTECHNOLOGY*
Razavi, M., Ren, G., Wang, J., Kimura, R., Thakor, A. S.
2019; 15 (10): 2130–41
- **Improving the Function and Engraftment of Transplanted Pancreatic Islets Using Pulsed Focused Ultrasound Therapy.** *Scientific reports*
Razavi, M., Zheng, F., Telichko, A., Wang, J., Ren, G., Dahl, J., Thakor, A. S.
2019; 9 (1): 13416
- **Three-dimensional cryogels for biomedical applications.** *Journal of biomedical materials research. Part A*
Razavi, M., Qiao, Y., Thakor, A. S.
2019
- **Adipose tissue-derived mesenchymal stem cells rescue the function of islets transplanted in sub-therapeutic numbers via their angiogenic properties** *CELL AND TISSUE RESEARCH*
Ren, G., Rezaee, M., Razavi, M., Taysir, A., Wang, J., Thakor, A. S.
2019; 376 (3): 353–64
- **Adipose tissue-derived mesenchymal stem cells rescue the function of islets transplanted in sub-therapeutic numbers via their angiogenic properties.** *Cell and tissue research*
Ren, G., Rezaee, M., Razavi, M., Taysir, A., Wang, J., Thakor, A. S.
2019
- **Ferumoxylol Does Not Impact Standardized Uptake Values on PET/MR Scans.** *Molecular imaging and biology : MIB : the official publication of the Academy of Molecular Imaging*
Muehe, A. M., Yerneni, K. n., Theruvath, A. J., Thakor, A. S., Pribnow, A. n., Avedian, R. n., Steffner, R. n., Rosenberg, J. n., Hawk, K. E., Daldrup-Link, H. E.
2019
- **Effect of Pulsed Focused Ultrasound on the Native Pancreas.** *Ultrasound in medicine & biology*
Razavi, M. n., Zheng, F. n., Telichko, A. n., Ullah, M. n., Dahl, J. n., Thakor, A. S.
2019
- **Advances in Precision Health and Emerging Diagnostics for Women.** *Journal of clinical medicine*
Fitzpatrick, M. B., Thakor, A. S.
2019; 8 (10)
- **Mesenchymal Stromal Cell Homing: Mechanisms and Strategies for Improvement.** *iScience*
Ullah, M. n., Liu, D. D., Thakor, A. S.
2019; 15: 421–38
- **Mesenchymal stem cells confer chemoresistance in breast cancer via a CD9 dependent mechanism** *Oncotarget*
Ullah, M., Akbar, A., Ng, N. N., Concepcion, W., Thakor, A. S.
2019; 10 (37): 3435-3450
- **Adult and Pediatric Antibiotic Prophylaxis during Vascular and IR Procedures: A Society of Interventional Radiology Practice Parameter Update Endorsed by the Cardiovascular and Interventional Radiological Society of Europe and the Canadian Association for Interventional Radiology** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*
Chehab, M. A., Thakor, A. S., Tulin-Silver, S., Connolly, B. L., Cahill, A., Ward, T. J., Padia, S. A., Kohi, M. P., Midia, M., Chaudry, G., Gemmete, J. J., Mitchell, J. W., Brody, et al
2018; 29 (11): 1483–1501
- **Orthotopic Liver Transplantation After Stereotactic Body Radiotherapy for Pediatric Hepatocellular Carcinoma with Central Biliary Obstruction and Nodal Involvement.** *Cureus*
Chen, E., Rangaswami, A., Esquivel, C. O., Concepcion, W., Lungren, M., Thakor, A. S., Yoo, C. H., Donaldson, S. S., Hiniker, S. M.
2018; 10 (10): e3499
- **Adult and Pediatric Antibiotic Prophylaxis during Vascular and IR Procedures: A Society of Interventional Radiology Practice Parameter Update Endorsed by the Cardiovascular and Interventional Radiological Society of Europe and the Canadian Association for Interventional Radiology.** *Journal of vascular and interventional radiology : JVIR*
Chehab, M. A., Thakor, A., Tulin-Silver, S., Connolly, B. L., Cahill, A. M., Ward, T. J., Padia, S. A., Kohi, M. P., Midia, M., Chaudry, G., Gemmete, J. J., Mitchell, J. W., Brody, et al
2018

- **A collagen based cryogel bioscaffold coated with nanostructured polydopamine as a platform for mesenchymal stem cell therapy** *JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A*
Razavi, M., Hu, S., Thakor, A. S.
2018; 106 (8): 2213–28
- **An oxygen plasma treated poly(dimethylsiloxane) bioscaffold coated with polydopamine for stem cell therapy** *JOURNAL OF MATERIALS SCIENCE-MATERIALS IN MEDICINE*
Razavi, M., Thakor, A. S.
2018; 29 (5): 54
- **Role of interventional radiology in managing pediatric liver tumors** *PEDIATRIC RADIOLOGY*
Lungren, M. P., Towbin, A. J., Roebuck, D. J., Monroe, E. J., Gill, A. E., Thakor, A., Towbin, R. B., Cahill, A., Hawkins, C.
2018; 48 (4): 555–64
- **Role of interventional radiology in managing pediatric liver tumors : Part 2: percutaneous interventions.** *Pediatric radiology*
Matthew Hawkins, C., Towbin, A. J., Roebuck, D. J., Monroe, E. J., Gill, A. E., Thakor, A. S., Towbin, R. B., Cahill, A. M., Lungren, M. P.
2018; 48 (4): 565-580
- **A Novel Approach for Therapeutic Delivery to the Rodent Pancreas Via Its Arterial Blood Supply.** *Pancreas*
Choi, J. n., Wang, J. n., Ren, G. n., Thakor, A. S.
2018; 47 (7): 910–15
- **Use of Blood Pool Agents With Steady-State MRI to Assess the Vascular System** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
Thakor, A. S., Chung, J., Patel, P., Chan, A., Ahmed, A., McNeil, G., Liu, D. M., Forster, B., Klass, D.
2017; 45 (6): 1559-1572
- **Stereotactic body radiotherapy for pediatric hepatocellular carcinoma with central biliary obstruction** *PEDIATRIC BLOOD & CANCER*
Hiniker, S. M., Rangaswami, A., Lungren, M. P., Thakor, A. S., Concepcion, W., Balazy, K. E., Kovalchuk, N., Donaldson, S. S.
2017; 64 (6)
- **Transradial Access for Interventional Radiology: Single-Centre Procedural and Clinical Outcome Analysis.** *Canadian Association of Radiologists journal = Journal l'Association canadienne des radiologistes*
Thakor, A. S., Alshammari, M. T., Liu, D. M., Chung, J., Ho, S. G., Legiehn, G. M., Machan, L., Fischman, A. M., Patel, R. S., Klass, D.
2017
- **Clinically Approved Nanoparticle Imaging Agents.** *Journal of nuclear medicine : official publication, Society of Nuclear Medicine*
Thakor, A. S., Jokerst, J. V., Ghanouni, P., Campbell, J., Mitra, E., Gambhir, S. S.
2016
- **MR cone-beam CT fusion image overlay for fluoroscopically guided percutaneous biopsies in pediatric patients** *PEDIATRIC RADIOLOGY*
Thakor, A. S., Patel, P. A., Gu, R., Rea, V., Amaral, J., Connolly, B. L.
2016; 46 (3): 407-412
- **Fetal in vivo continuous cardiovascular function during chronic hypoxia.** *journal of physiology*
Allison, B. J., Brain, K. L., Niu, Y., Kane, A. D., Herrera, E. A., Thakor, A. S., Botting, K. J., Cross, C. M., Itani, N., Skeffington, K. L., Beck, C., Giussani, D. A.
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