



## Avnesh Thakor

Assistant Professor of Radiology (Pediatric Radiology) at the Stanford University Medical Center

Radiology - Pediatric Radiology

### CLINICAL OFFICES

- **Pediatric Radiology Clinic**

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MC 5913

Palo Alto, CA 94304

**Tel** (650) 497-8376

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### ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Rudilyn Joyce Wilson - Administrative Associate

**Email** joycewilson@stanford.edu

**Tel** (650) 736 3520

### Bio

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#### BIO

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 pancreatic regeneration, islet transplantation, kidney regeneration and neuronal regeneration.

His work focuses on understanding the genomic and proteomic profiles of different sources of MSCs and their derived EVs, developing novel strategies to deliver and home these MSC-based therapies to target tissues, using focused ultrasound to optimize the injured tissue microenvironment for these therapies and then 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 FOCUS:

Interventional Radiology - Pediatric and Adult

#### ACADEMIC FOCUS:

Interventional Regenerative Medicine

Pancreatic Islet Transplantation

Interventional Oncology

Stem Cell Delivery

Nanotechnology

Novel Image guided Loco-regional Therapies

Ablative Technologies

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Molecular Imaging

<http://med.stanford.edu/thakorlab.html>

### **CLINICAL FOCUS**

- Diagnostic Radiology
- Interventional Radiology

### **ACADEMIC APPOINTMENTS**

- Assistant Professor - Med Center 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)
- Member, Canadian Interventional Radiology Association (2014 - present)

### **PROFESSIONAL EDUCATION**

- Fellowship: University of Toronto (2015) Canada
- Fellowship: University Of British Columbia (2014) Canada
- Residency: University of Cambridge School of Clinical Medicine (2013) England

- 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://thakorlab.stanford.edu/>
- LinkedIn Profile: <https://www.linkedin.com/in/avnesh-thakor-729971a0/>

## Research & Scholarship

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### RESEARCH INTERESTS

- Technology and Education

### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Thakor is an Assistant Professor and 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 pancreatic regeneration, islet transplantation, kidney regeneration and neuronal regeneration.

His work focuses on understanding the genomic and proteomic profiles of different sources of MSCs and their derived EVs, developing novel strategies to deliver and home these MSC-based therapies to target tissues, using focused ultrasound to optimize the injured tissue microenvironment for these therapies and then 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.

## Teaching

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### STANFORD ADVISEES

#### Med Scholar Project Advisor

Nathan Ng

#### Postdoctoral Faculty Sponsor

Shashank Chetty, Rosita Primavera, Shobha Regmi

## Publications

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### PUBLICATIONS

- **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
- **Controlled Nutrient Delivery to Pancreatic Islets Using Polydopamine-Coated Mesoporous Silica Nanoparticles.** *Nano letters*  
Razavi, M. n., Primavera, R. n., Kevadiya, B. D., Wang, J. n., Ullah, M. n., Buchwald, P. n., Thakor, A. S.  
2020
- **Locoregional delivery of stem cell-based therapies.** *Science translational medicine*  
Ng, N. N., Thakor, A. S.  
2020; 12 (547)
- **Facilitating islet transplantation using a three-step approach with mesenchymal stem cells, encapsulation, and pulsed focused ultrasound.** *Stem cell research & therapy*  
Razavi, M. n., Ren, T. n., Zheng, F. n., Telichko, A. n., Wang, J. n., Dahl, J. J., Demirci, U. n., Thakor, A. S.  
2020; 11 (1): 405
- **A Collagen Based Cryogel Bioscaffold that Generates Oxygen for Islet Transplantation.** *Advanced functional materials*  
Razavi, M. n., Primavera, R. n., Kevadiya, B. D., Wang, J. n., Buchwald, P. n., Thakor, A. S.  
2020; 30 (15)
- **Nanooncology: The Future of Cancer Diagnosis and Therapy** *CA-A CANCER JOURNAL FOR CLINICIANS*  
Thakor, A. S., Gambhir, S. S.  
2013; 63 (6): 395-418
- **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
- **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
  - **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: 100979
  - **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)
  - **Reversing Acute Kidney Injury Using Pulsed Focused Ultrasound and MSC Therapy: A Role for HSP-Mediated PI3K/AKT Signaling.** *Molecular therapy. Methods & clinical development*  
Ullah, M. n., Liu, D. D., Rai, S. n., Dadhanian, A. n., Jonnakuti, S. n., Concepcion, W. n., Thakor, A. S.  
2020; 17: 683–94
  - **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
  - **An emerging role of CD9 in stemness and chemoresistance.** *Oncotarget*  
Ullah, M., Akbar, A., Thakor, A. S.  
2019; 10 (40): 4000–4001
  - **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. n., Akbar, A. n., Ng, N. N., Concepcion, W. n., Thakor, A. S.  
2019; 10 (37): 3435–50
  - **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
- **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., Concepcion, W., Lungren, M., Thakor, A. S., Yoo, C. H., Donaldson, S. S., Hiniker, S. M.  
2018; 10 (10)
- **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
- **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
- **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** *PEDIATRIC RADIOLOGY*  
Hawkins, C., Towbin, A. J., Roebuck, D. J., Monroe, E. J., Gill, A. E., Thakor, A. S., Towbin, R. B., Cahill, A., Lungren, M. P.  
2018; 48 (4): 565–80
- **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
- **Role of interventional radiology in managing pediatric liver tumors : Part 2: percutaneous interventions.** *Pediatric radiology*  
Matthew Hawkins, C. n., 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): 565–80
- **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)
- **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*  
Thakor, A. S., Jokerst, J. V., Ghanouni, P., Campbell, J. L., Mittra, E., Gambhir, S. S.  
2016; 57 (12): 1833-37
- **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., Mittra, 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.  
2016; 594 (5): 1247-1264
- **Melatonin modulates the fetal cardiovascular defense response to acute hypoxia** *JOURNAL OF PINEAL RESEARCH*  
Thakor, A. S., Allison, B. J., Niu, Y., Botting, K. J., Seron-Ferre, M., Herrera, E. A., Giussani, D. A.  
2015; 59 (1): 80-90
- **Radiological Evaluation of Abdominal Endovascular Aortic Aneurysm Repair.** *Canadian Association of Radiologists journal = Journal l'Association canadienne des radiologistes*  
Thakor, A. S., Tanner, J., Ong, S. J., Hughes-Roberts, Y., Ilyas, S., Cousins, C., See, T. C., Klass, D., Winterbottom, A. P.  
2015; 66 (3): 277-290
- **The Other Path-Think Radial.** *Canadian Association of Radiologists journal = Journal l'Association canadienne des radiologistes*  
Thakor, A. S., Munk, P. L., Klass, D.  
2015; 66 (3): 191-?
- **Percutaneous autologous pancreatic islet cell transplantation for traumatic pancreatic injury.** *journal of clinical endocrinology & metabolism*  
Thakor, A. S., Sangha, B. S., Ho, S. G., Warnock, G. L., Meloche, M., Liu, D. M.  
2015; 100 (4): 1230-1233
- **Endovascular aneurysm repair (EVAR) follow-up imaging: the assessment and treatment of common postoperative complications.** *Clinical radiology*  
Ilyas, S., Shaida, N., Thakor, A. S., Winterbottom, A., Cousins, C.  
2015; 70 (2): 183-196
- **The use of cone-beam CT in assisting percutaneous translumbar catheter placement into the inferior vena cava.** *Clinical radiology*  
Thakor, A. S., Chung, J., Patel, R., Cormack, R., Legiehn, G., Klass, D.  
2015; 70 (1): 21-24
- **Y90 selective internal radiation therapy.** *Surgical oncology clinics of North America*  
Lee, E. W., Thakor, A. S., Tafti, B. A., Liu, D. M.  
2015; 24 (1): 167-185
- **A review of conventional and drug-eluting chemoembolization in the treatment of colorectal liver metastases: principles and proof.** *Future oncology*  
Liu, D. M., Thakor, A. S., Baerlocher, M., Alshammari, M. T., Lim, H., Kos, S., Kennedy, A. S., Wasan, H.  
2015; 11 (9): 1421-1428
- **Heart disease link to fetal hypoxia and oxidative stress.** *Advances in experimental medicine and biology*  
Giussani, D. A., Niu, Y., Herrera, E. A., Richter, H. G., Camm, E. J., Thakor, A. S., Kane, A. D., Hansell, J. A., Brain, K. L., Skeffington, K. L., Itani, N., Wooding, F. B., Cross, et al  
2014; 814: 77-87
- **A scanning transmission electron microscopy approach to analyzing large volumes of tissue to detect nanoparticles.** *Microscopy and microanalysis*



- Kempen, P. J., Thakor, A. S., Zavaleta, C., Gambhir, S. S., Sinclair, R.  
2013; 19 (5): 1290-1297
- **A role for xanthine oxidase in the control of fetal cardiovascular function in late gestation sheep** *JOURNAL OF PHYSIOLOGY-LONDON*  
Herrera, E. A., Kane, A. D., Hansell, J. A., Thakor, A. S., Allison, B. J., Niu, Y., Giussani, D. A.  
2012; 590 (8): 1825-1837
  - **Developmental Programming of Cardiovascular Dysfunction by Prenatal Hypoxia and Oxidative Stress** *PLOS ONE*  
Giussani, D. A., Camm, E. J., Niu, Y., Richter, H. G., Blanco, C. E., Gottschalk, R., Blake, E. Z., Horder, K. A., Thakor, A. S., Hansell, J. A., Kane, A. D., Wooding, F. B., Cross, et al  
2012; 7 (2)
  - **Gold Nanoparticles: A Revival in Precious Metal Administration to Patients** *NANO LETTERS*  
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