



## Joshua M. Spin

Clinical Assistant Professor, Medicine - Cardiovascular Medicine

 NIH Biosketch available Online

 Curriculum Vitae available Online

### CLINICAL OFFICES

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### Bio

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### CLINICAL FOCUS

- Aortic Disease
- Marfan Syndrome and Aortic Disorders
- Cardiovascular Disease

### ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Medicine - Cardiovascular Medicine
- Member, Cardiovascular Institute

### PROFESSIONAL EDUCATION

- Fellowship: Stanford University Cardiovascular Medicine Fellowship (2003) CA
- Residency: Stanford University Internal Medicine Residency (2000) CA
- Medical Education: Boston University School of Medicine (1997) MA
- Board Certification: Cardiovascular Disease, American Board of Internal Medicine (2003)
- BA, Cornell University, Biophysics (1989)

- MD, PhD, Boston University Med School , Biophysics (1997)

## LINKS

- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Spin is pursuing fundamental issues relating to smooth muscle cell (SMC) biology. SMCs play crucial roles in vascular development, homeostasis, and disease. He has examined gene expression within the vascular wall, identifying patterns and pathways that characterized atherogenesis. He has also studied the biology of differentiation and phenotypic switching in vascular SMCs, first identifying differentially regulated genes associated with SMC lineage determination, and then focusing on the epigenetic regulation of SMC differentiation state. Most recently he has examined the role of microRNAs in the regulation of SMC phenotype, and studied the biology of aortic aneurysm development in mouse models.

## Publications

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### PUBLICATIONS

- **Genome-wide association meta-analysis identifies risk loci for abdominal aortic aneurysm and highlights PCSK9 as a therapeutic target** *NATURE GENETICS*  
Roychowdhury, T., Klarin, D., Levin, M. G., Spin, J. M., Rhee, Y., Deng, A., Headley, C. A., Tsao, N. L., Gellatly, C., Zuber, V., Shen, F., Hornsby, W. E., Laursen, et al  
2023
- **Genome-wide association meta-analysis identifies risk loci for abdominal aortic aneurysm and highlights PCSK9 as a therapeutic target.** *Nature genetics*  
Roychowdhury, T., Klarin, D., Levin, M. G., Spin, J. M., Rhee, Y. H., Deng, A., Headley, C. A., Tsao, N. L., Gellatly, C., Zuber, V., Shen, F., Hornsby, W. E., Laursen, et al  
2023
- **Serum microRNA-501-3p is a potential diagnostic tool for detecting mild cognitive impairment: Ehime genome study.** *Journal of neurochemistry*  
Toyama, K., Spin, J. M., Tsao, P. S., Maruyama, K., Osawa, H., Mogi, M., Takata, Y.  
2023
- **Time-dependent effects of cellulose and gelatin-based hemostats on cellular processes of wound healing.** *Archives of medical science : AMS*  
Wagenhäuser, M. U., Garabet, W., van Bonn, M., Ibing, W., Mulorz, J., Rhee, Y. H., Spin, J. M., Dimopoulos, C., Oberhuber, A., Schelzig, H., Simon, F.  
2023; 19 (1): 194-202
- **Time-dependent effects of cellulose and gelatin-based hemostats on cellular processes of wound healing** *ARCHIVES OF MEDICAL SCIENCE*  
Wagenhaeuser, M. U., Garabet, W., van Bonn, M., Ibing, W., Mulorz, J., Rhee, Y., Spin, J., Dimopoulos, C., Oberhuber, A., Schelzig, H., Simon, F.  
2023; 19 (1): 194-202
- **IS IT POSSIBLE TO ACCELERATE SENEESCENCE IN THE VASCULAR ENDOTHELIAL CELL BY MODULATING SEVERAL MICRORNAS?**  
Toyama, K., Spin, J. M., Tsao, P. S., Mogi, M.  
LIPPINCOTT WILLIAMS & WILKINS.2023: E171
- **Message to researchers: the characteristic absence of a posterior communicating artery is easily lost in the gerbil.** *Anatomical science international*  
Abe, Y., Toyama, K., Shinohara, A., Nagura-Kato, G. A., Ikai, Y., Koshimoto, C., Spin, J. M., Hato, N.  
2022
- **E-cigarette exposure augments murine abdominal aortic aneurysm development: role of Chill.** *Cardiovascular research*  
Mulorz, J., Spin, J. M., Mulorz, P., Wagenhauser, M., Deng, A., Mattern, K., Rhee, Y. H., Toyama, K., Adam, M., Schelzig, H., Maegdefessel, L., Tsao, P. S.  
2022
- **Role of MicroRNAs in acceleration of vascular endothelial senescence.** *Biochemistry and biophysics reports*  
Toyama, K., Spin, J. M., Deng, A. C., Abe, Y., Tsao, P. S., Mogi, M.  
2022; 30: 101281

- **peri-Adventitial delivery of smooth muscle cells in porous collagen scaffolds for treatment of experimental abdominal aortic aneurysm.** *Biomaterials science*  
Mulorz, J., Shayan, M., Hu, C., Alcazar, C., Chan, A. H., Briggs, M., Wen, Y., Walvekar, A. P., Ramasubramanian, A. K., Spin, J. M., Chen, B., Tsao, P. S., Huang, et al  
2021
- **MicroRNA miR-29b regulates diabetic aortic remodeling and stiffening.** *Molecular therapy. Nucleic acids*  
Schellinger, I. N., Wagenhauser, M., Chodisetti, G., Mattern, K., Dannert, A., Petzold, A., Jakubizka-Smorag, J., Emrich, F., Haunschild, J., Schuster, A., Schwob, E., Schulz, K., Maegdefessel, et al  
2021; 24: 188–99
- **Immunomodulation therapy using tolerogenic macrophages in a rodent model of pulmonary hypertension.** *Stem cells and development*  
Guihaire, J., Deuse, T., Wang, D., Spin, J. M., Blankenberg, F. G., Fadel, E., Reichenspurner, H., Schrepfer, S.  
2021
- **Exosome miR-501-3p Elevation Contributes to Progression of Vascular Stiffness.** *Circulation reports*  
Toyama, K., Igase, M., Spin, J. M., Abe, Y., Javkhlant, A., Okada, Y., Wagenhauser, M. U., Schelzig, H., Tsao, P. S., Mogi, M.  
2021; 3 (3): 170–77
- **Involvement of Myeloid Cells and Non-Coding RNA in Abdominal Aortic Aneurysm Disease.** *Antioxidants & redox signaling*  
Knappich, C. n., Spin, J. M., Eckstein, H. H., Tsao, P. S., Maegdefessel, L. n.  
2020
- **Hyperlipidemia does not affect development of elastase-induced abdominal aortic aneurysm in mice.** *Atherosclerosis*  
Mulorz, J. n., Spin, J. M., Beck, H. C., Tha Thi, M. L., Wagenhäuser, M. U., Rasmussen, L. M., Lindholt, J. S., Tsao, P. S., Steffensen, L. B.  
2020; 311: 73–83
- **Low-Normal Platelets and Decreasing Platelets Are Risk Factors for Hearing Impairment Development.** *The Laryngoscope*  
Abe, Y. n., Toyama, K. n., Kazurayama, M. n., Tanaka, S. n., Yamaizumi, M. n., Ueno, M. n., Spin, J. M., Hato, N. n., Mogi, M. n.  
2020
- **Genetic Architecture of Abdominal Aortic Aneurysm in the Million Veteran Program.** *Circulation*  
Klarin, D. n., Verma, S. S., Judy, R. n., Dikilitas, O. n., Wolford, B. N., Paranjpe, I. n., Levin, M. G., Pan, C. n., Tcheandjieu, C. n., Spin, J. M., Lynch, J. n., Assimes, T. L., Nyrønning, et al  
2020
- **Controlled isoflurane anesthesia exposure is required for reliable behavioral testing in murine surgical models.** *Journal of pharmacological sciences*  
Toyama, K., Spin, J. M., Abe, Y., Suzuki, Y., Deng, A. C., Wagenhauser, M. U., Yoshino, T., Mulorz, J., Liu, S., Tsao, P. S., Mogi, M.  
2019
- **Clinical outcomes after direct and indirect surgical venous thrombectomy for inferior vena cava thrombosis.** *Journal of vascular surgery. Venous and lymphatic disorders*  
Wagenhauser, M. U., Dimopoulos, C., Antakyali, K., Meyer-Janiszewski, Y. K., Mulorz, J., Ibing, W., Ertas, N., Spin, J. M., Schelzig, H., Duran, M.  
2019
- **Non-coding RNAs in aneurysmal aortopathy** *VASCULAR PHARMACOLOGY*  
Spin, J. M., Li, D. Y., Maegdefessel, L., Tsao, P. S.  
2019; 114: 110–21
- **Long noncoding RNAs in key cellular processes involved in aortic aneurysms.** *Atherosclerosis*  
Wu, Z. Y., Trenner, M. n., Boon, R. A., Spin, J. M., Maegdefessel, L. n.  
2019; 292: 112–18
- **Therapeutic perspective on vascular cognitive impairment.** *Pharmacological research*  
Toyama, K. n., Spin, J. M., Mogi, M. n., Tsao, P. S.  
2019: 104266
- **Chronic Nicotine Exposure Induces Murine Aortic Remodeling and Stiffness Segmentation-Implications for Abdominal Aortic Aneurysm Susceptibility.** *Frontiers in physiology*  
Wagenhäuser, M. U., Schellinger, I. N., Yoshino, T., Toyama, K., Kayama, Y., Deng, A., Guenther, S. P., Petzold, A., Mulorz, J., Mulorz, P., Hasenfuß, G., Ibing, W., Elvers, et al

2018; 9: 1459

- **Decoding the Genomics of Abdominal Aortic Aneurysm.** *Cell*  
Li, J., Pan, C., Zhang, S., Spin, J. M., Deng, A., Leung, L. L., Dalman, R. L., Tsao, P. S., Snyder, M.  
2018; 174 (6): 1361
- **Non-coding RNAs in aneurysmal aortopathy.** *Vascular pharmacology*  
Spin, J. M., Li, D. Y., Maegdefessel, L., Tsao, P. S.  
2018
- **MicroRNA-Mediated Therapy Modulating Blood-Brain Barrier Disruption Improves Vascular Cognitive Impairment.** *Arteriosclerosis, thrombosis, and vascular biology*  
Toyama, K., Spin, J. M., Deng, A. C., Huang, T., Wei, K., Wagenhauser, M. U., Yoshino, T., Nguyen, H., Mulorz, J., Kundu, S., Raaz, U., Adam, M., Schellinger, et al  
2018
- **Systemic Upregulation of IL-10 (Interleukin-10) Using a Nonimmunogenic Vector Reduces Growth and Rate of Dissecting Abdominal Aortic Aneurysm.** *Arteriosclerosis, thrombosis, and vascular biology*  
Adam, M. n., Kooreman, N. n., Jagger, A. n., Wagenhaeuser, M. U., Mehrkens, D. n., Wang, Y. n., Kayama, Y. n., Toyama, K. n., Raaz, U. n., Schellinger, I. N., Maegdefessel, L. n., Spin, J. M., Hamming, et al  
2018
- **H19 Induces Abdominal Aortic Aneurysm Development and Progression.** *Circulation*  
Li, D. Y., Busch, A. n., Jin, H. n., Chernogubova, E. n., Pelisek, J. n., Karlsson, J. n., Sennblad, B. n., Liu, S. n., Lao, S. n., Hofmann, P. n., Bäcklund, A. n., Eken, S. M., Roy, et al  
2018
- **Chronic Mesenteric Ischemia: Patient Outcomes Using Open Surgical Revascularization.** *Digestive surgery*  
Wagenhäuser, M. U., Meyer-Janiszewski, Y. K., Dueppers, P., Spin, J. M., Floros, N., Schelzig, H., Duran, M.  
2017
- **Open surgery for iliofemoral deep vein thrombosis with temporary arteriovenous fistula remains valuable.** *Phlebology*  
Wagenhäuser, M. U., Sadat, H. n., Dueppers, P. n., Meyer-Janiszewski, Y. K., Spin, J. M., Schelzig, H. n., Duran, M. n.  
2017: 268355517736437
- **A Pilot Study: The Beneficial Effects of Combined Statinexercise Therapy on Cognitive Function in Patients with Coronary Artery Disease and Mild Cognitive Decline** *INTERNAL MEDICINE*  
Toyama, K., Sugiyama, S., Oka, H., Hamada, M., Iwasaki, Y., Horio, E., Rokutanda, T., Nakamura, S., Spin, J. M., Tsao, P. S., Ogawa, H.  
2017; 56 (6): 641-649
- **Role of microRNAs on Blood Brain Barrier Dysfunction in Vascular Cognitive Impairment.** *Current drug delivery*  
Toyama, K., Spin, J. M., Tsao, P. S.  
2016: -?
- **Oxidized (non)-regenerated cellulose affects fundamental cellular processes of wound healing** *SCIENTIFIC REPORTS*  
Wagenhaeuser, M. U., Mulorz, J., Ibing, W., Simon, F., Spin, J. M., Schelzig, H., Oberhuber, A.  
2016; 6
- **The Selective JAK1/3-Inhibitor R507 Mitigates Obliterative Airway Disease Both With Systemic Administration and Aerosol Inhalation** *TRANSPLANTATION*  
Deuse, T., Hua, X., Stubbendorff, M., Spin, J. M., Neofytou, E., Taylor, V., Chen, Y., Park, G., Fink, J. B., Renne, T., Kiefmann, M., Kiefmann, R., Reichenspurner, et al  
2016; 100 (5): 1022-1031
- **CDKN2B Regulates TGF $\beta$  Signaling and Smooth Muscle Cell Investment of Hypoxic Neovessels.** *Circulation research*  
Nanda, V., Downing, K. P., Ye, J., Xiao, S., Kojima, Y., Spin, J. M., DiRenzo, D., Nead, K. T., Connolly, A. J., Dandona, S., Perisic, L., Hedin, U., Maegdefessel, et al  
2016; 118 (2): 230-240
- **Response to Letters Regarding Article, "Segmental Aortic Stiffening Contributes to Experimental Abdominal Aortic Aneurysm Development"** *CIRCULATION*

- Raaz, U., Zoellner, A. M., Schellinger, I. N., Toh, R., Nakagami, F., Brandt, M., Emrich, F. C., Kayama, Y., Eken, S., Adam, M., Maegdefessel, L., Hertel, T., Deng, et al  
2016; 133 (1): E11–E12
- **Heme Oxygenase-1 Expression Affects Murine Abdominal Aortic Aneurysm Progression.** *PloS one*  
Azuma, J., Wong, R. J., Morisawa, T., Hsu, M., Maegdefessel, L., Zhao, H., Kalish, F., Kayama, Y., Wallenstein, M. B., Deng, A. C., Spin, J. M., Stevenson, D. K., Dalman, et al  
2016; 11 (2)
  - **Diabetic Cardiovascular Disease Induced by Oxidative Stress** *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*  
Kayama, Y., Raaz, U., Jagger, A., Adam, M., Schellinger, I. N., Sakamoto, M., Suzuki, H., Toyama, K., Spin, J. M., Tsao, P. S.  
2015; 16 (10): 25234-25263
  - **Local MicroRNA Modulation Using a Novel Anti-miR21-Eluting Stent Effectively Prevents Experimental In-Stent Restenosis** *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*  
Wang, D., Deuse, T., Stubbendorff, M., Chernogubova, E., Erben, R. G., Eken, S. M., Jin, H., Li, Y., Busch, A., Heeger, C., Behnisch, B., Reichenspurner, H., Robbins, et al  
2015; 35 (9): 1945-1953
  - **Transcription Factor Runx2 Promotes Aortic Fibrosis and Stiffness in Type 2 Diabetes Mellitus** *CIRCULATION RESEARCH*  
Raaz, U., Schellinger, I. N., Chernogubova, E., Warnecke, C., Kayama, Y., Penov, K., Hennigs, J. K., Salomons, F., Eken, S., Emrich, F. C., Zheng, W. H., Adam, M., Jagger, et al  
2015; 117 (6): 513-524
  - **Segmental Aortic Stiffening Contributes to Experimental Abdominal Aortic Aneurysm Development** *CIRCULATION*  
Raaz, U., Zoellner, A. M., Schellinger, I. N., Toh, R., Nakagami, F., Brandt, M., Emrich, F. C., Kayama, Y., Eken, S., Adam, M., Maegdefessel, L., Hertel, T., Deng, et al  
2015; 131 (20): 1783-1795
  - **MicroRNAs in Abdominal Aortic Aneurysm.** *Current vascular pharmacology*  
Adam, M., Raaz, U., Spin, J. M., Tsao, P. S.  
2015; 13 (3): 280-290
  - **Levosimendan displays anti-inflammatory effects and decreases MPO bioavailability in patients with severe heart failure.** *Scientific reports*  
Adam, M., Meyer, S., Knors, H., Klinke, A., Radunski, U. K., Rudolph, T. K., Rudolph, V., Spin, J. M., Tsao, P. S., Costard-Jäckle, A., Baldus, S.  
2015; 5: 9704-?
  - **Battle of the bulge: miR-195 versus miR-29b in aortic aneurysm.** *Circulation research*  
Spin, J. M., Tsao, P. S.  
2014; 115 (10): 812-813
  - **miR-24 limits aortic vascular inflammation and murine abdominal aneurysm development** *NATURE COMMUNICATIONS*  
Maegdefessel, L., Spin, J. M., Raaz, U., Eken, S. M., Toh, R., Azuma, J., Adam, M., Nagakami, F., Heymann, H. M., Chernogubova, E., Jin, H., Roy, J., Hultgren, et al  
2014; 5
  - **New ways to dismantle a ticking time bomb: microRNA 712/205 and abdominal aortic aneurysm development.** *Arteriosclerosis, thrombosis, and vascular biology*  
Maegdefessel, L., Spin, J. M., Tsao, P. S.  
2014; 34 (7): 1339-1340
  - **Dichloroacetate prevents restenosis in preclinical animal models of vessel injury.** *Nature*  
Deuse, T., Hua, X., Wang, D., Maegdefessel, L., Heeren, J., Scheja, L., Bolaños, J. P., Rakovic, A., Spin, J. M., Stubbendorff, M., Ikeno, F., Länger, F., Zeller, et al  
2014; 509 (7502): 641-644
  - **Hemodynamic regulation of reactive oxygen species: implications for vascular diseases.** *Antioxidants & redox signaling*  
Raaz, U., Toh, R., Maegdefessel, L., Adam, M., Nakagami, F., Emrich, F. C., Spin, J. M., Tsao, P. S.  
2014; 20 (6): 914-928
  - **Loss of somatostatin receptor subtype 2 in prostate cancer is linked to an aggressive cancer phenotype, high tumor cell proliferation and predicts early metastatic and biochemical relapse.** *PloS one*

- Hennigs, J. K., Müller, J., Adam, M., Spin, J. M., Riedel, E., Graefen, M., Bokemeyer, C., Sauter, G., Huland, H., Schlomm, T., Minner, S.  
2014; 9 (7)
- **miR-24 limits aortic vascular inflammation and murine abdominal aneurysm development.** *Nature communications*  
Maegdefessel, L., Spin, J. M., Raaz, U., Eken, S. M., Toh, R., Azuma, J., Adam, M., Nakagami, F., Heymann, H. M., Chernogubova, E., Jin, H., Roy, J., Hultgren, et al  
2014; 5: 5214-?
  - **Micromanaging Abdominal Aortic Aneurysms** *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*  
Maegdefessel, L., Spin, J. M., Adam, M., Raaz, U., Toh, R., Nakagami, F., Tsao, P. S.  
2013; 14 (7): 14374-14394
  - **Physiologic and molecular characterization of a murine model of right ventricular volume overload.** *American journal of physiology. Heart and circulatory physiology*  
Reddy, S., Zhao, M., Hu, D., Fajardo, G., Katznelson, E., Pun, R., Spin, J. M., Chan, F. P., Bernstein, D.  
2013; 304 (10): H1314-27
  - **MicroRNA-24 controls abdominal aortic aneurysm development through regulation of YKL-40**  
Maegdefessel, L., Raaz, U., Adam, M., Spin, J., Eriksson, P., Hamsten, A., Tsao, P.  
SPRINGER.2013: 10-10
  - **Loss of CDKN2B promotes p53-dependent smooth muscle cell apoptosis and aneurysm formation.** *Arteriosclerosis, thrombosis, and vascular biology*  
Leeper, N. J., Raiesdana, A., Kojima, Y., Kundu, R. K., Cheng, H., Maegdefessel, L., Toh, R., Ahn, G., Ali, Z. A., Anderson, D. R., Miller, C. L., Roberts, S. C., Spin, et al  
2013; 33 (1): e1-e10
  - **Vascular smooth muscle cell phenotypic plasticity: focus on chromatin remodelling** *CARDIOVASCULAR RESEARCH*  
Spin, J. M., Maegdefessel, L., Tsao, P. S.  
2012; 95 (2): 147-155
  - **MicroRNA-21 Blocks Abdominal Aortic Aneurysm Development and Nicotine-Augmented Expansion** *SCIENCE TRANSLATIONAL MEDICINE*  
Maegdefessel, L., Azuma, J., Toh, R., Deng, A., Merk, D. R., Raiesdana, A., Leeper, N. J., Raaz, U., Schoelmerich, A. M., McConnell, M. V., Dalman, R. L., Spin, J. M., Tsao, et al  
2012; 4 (122)
  - **Inhibition of microRNA-29b reduces murine abdominal aortic aneurysm development** *JOURNAL OF CLINICAL INVESTIGATION*  
Maegdefessel, L., Azuma, J., Toh, R., Merk, D. R., Deng, A., Chin, J. T., Raaz, U., Schoelmerich, A. M., Raiesdana, A., Leeper, N. J., McConnell, M. V., Dalman, R. L., Spin, et al  
2012; 122 (2): 497-506
  - **miR-29b Participates in Early Aneurysm Development in Marfan Syndrome** *CIRCULATION RESEARCH*  
Merk, D. R., Chin, J. T., Dake, B. A., Maegdefessel, L., Miller, M. O., Kimura, N., Tsao, P. S., Iosef, C., Berry, G. J., Mohr, F. W., Spin, J. M., Alvira, C. M., Robbins, et al  
2012; 110 (2): 312-?
  - **In Vivo Functional and Transcriptional Profiling of Bone Marrow Stem Cells After Transplantation Into Ischemic Myocardium** *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*  
Sheikh, A. Y., Huber, B. C., Narsinh, K. H., Spin, J. M., van der Bogt, K., de Almeida, P. E., Ransohoff, K. J., Kraft, D. L., Fajardo, G., Ardigo, D., Ransohoff, J., Bernstein, D., Fischbein, et al  
2012; 32 (1): 92-102
  - **Microrna-21 Regulates Expansion of Abdominal Aortic Aneurysms Through the PTEN/PI3K/AKT Pathway** *Scientific Sessions of the American-Heart-Association/Resuscitation Science Symposium*  
Maegdefessel, L., Azuma, J., Deng, A., Toh, R. M., Merk, D. R., Raiesdana, A., Leeper, N. J., Spin, J. M., Tsao, P. S.  
LIPPINCOTT WILLIAMS & WILKINS.2011
  - **Nicotine-Augmented Abdominal Aortic Aneurysms are Regulated by MicroRNA-29b** *Scientific Sessions of the American-Heart-Association/Resuscitation Science Symposium*  
Maegdefessel, L., Azuma, J., Merk, D. R., Toh, R. M., Deng, A., Chin, J. P., Spin, J. M., Tsao, P. S.  
LIPPINCOTT WILLIAMS & WILKINS.2011

- **Cardiac pressure overload hypertrophy is differentially regulated by beta-adrenergic receptor subtypes** *AMERICAN JOURNAL OF PHYSIOLOGY-HEART AND CIRCULATORY PHYSIOLOGY*  
Zhao, M., Fajardo, G., Urashima, T., Spin, J. M., Poorfarahani, S., Rajagopalan, V., Diem Huynh, D., Connolly, A., Quertermous, T., Bernstein, D.  
2011; 301 (4): H1461-H1470
- **Transcriptional profiling and network analysis of the murine angiotensin II-induced abdominal aortic aneurysm** *PHYSIOLOGICAL GENOMICS*  
Spin, J. M., Hsu, M., Azuma, J., Tedesco, M. M., Deng, A., Dyer, J. S., Maegdefessel, L., Dalman, R. L., Tsao, P. S.  
2011; 43 (17): 993-1003
- **MicroRNA-26a Is a Novel Regulator of Vascular Smooth Muscle Cell Function** *JOURNAL OF CELLULAR PHYSIOLOGY*  
Leeper, N. J., Raiesdana, A., Kojima, Y., Chun, H. J., Azuma, J., Maegdefessel, L., Kundu, R. K., Quertermous, T., Tsao, P. S., Spin, J. M.  
2011; 226 (4): 1035-1043
- **Gene Mutations and Familial Thoracic Aortic Aneurysms A Walk on the Mild Side** *CIRCULATION-CARDIOVASCULAR GENETICS*  
Spin, J. M.  
2011; 4 (1): 4-6
- **Gene Coexpression Network Topology of Cardiac Development, Hypertrophy, and Failure** *CIRCULATION-CARDIOVASCULAR GENETICS*  
Dewey, F. E., Perez, M. V., Wheeler, M. T., Watt, C., Spin, J., Langfelder, P., Horvath, S., Hannenhalli, S., Cappola, T. P., Ashley, E. A.  
2011; 4 (1): 26-U129
- **Chromatin Remodeling Pathways in Smooth Muscle Cell Differentiation, and Evidence for an Integral Role for p300** *PLOS ONE*  
Spin, J. M., Quertermous, T., Tsao, P. S.  
2010; 5 (12)
- **Nicotine Accelerates the Expansion of Abdominal Aortic Aneurysms in Mice; A Potential Role for miR-21 and miR-26a**  
Maegdefessel, L., Azuma, J., Spin, J. M., Deng, A., McConnell, M. V., Dalman, R. L., Tsao, P. S.  
LIPPINCOTT WILLIAMS & WILKINS.2010
- **Microarray Analysis Identifies miRNA-26a as a Regulator of Vascular Smooth Muscle Cell Phenotypic Modulation** *Scientific Sessions on Arteriosclerosis, Thrombosis and Vascular Biology*  
Leeper, N. J., Raiesdana, A., Kojima, Y., Chun, H. J., Azuma, J., Kundu, R. K., Quertermous, T., Tsao, P. S., Spin, J. M.  
LIPPINCOTT WILLIAMS & WILKINS.2010: E244–E244
- **New options with dabigatran etexilate in anticoagulant therapy.** *Vascular health and risk management*  
Maegdefessel, L., Spin, J. M., Azuma, J., Tsao, P. S.  
2010; 6: 339-349
- **Analysis of In Situ and Ex Vivo Vascular Endothelial Growth Factor Receptor Expression During Experimental Aortic Aneurysm Progression** *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*  
Tedesco, M. M., Terashima, M., Blankenberg, F. G., Levashova, Z., Spin, J. M., Backer, M. V., Backer, J. M., Sho, M., Sho, E., McConnell, M. V., Dalman, R. L.  
2009; 29 (10): 1452-?
- **Frontiers in nephrology: Genomic approaches to understanding the molecular basis of atherosclerosis** *JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*  
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