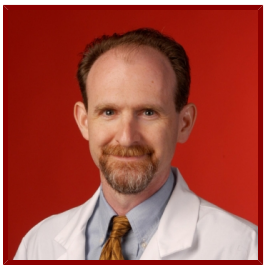
Stanford



Joshua M. Spin

Clinical Associate Professor, Medicine - Cardiovascular Medicine

NIH Biosketch available Online Curriculum Vitae available Online

CLINICAL OFFICE (PRIMARY)

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Bio

CLINICAL FOCUS

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

ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Medicine - Cardiovascular Medicine
- Member, Cardiovascular Institute
- Member, Maternal & Child Health Research Institute (MCHRI)

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

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.

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Tao Qiu

Publications

PUBLICATIONS

- **A narrative review of recent literature of circulating biomarkers of abdominal aortic aneurysm.** *JVS-vascular science*
  Rhee, Y. H., Spin, J. M., Tsao, P. S.
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- **The Role of miR-501-3p in Abdominal Aortic Aneurysm Progression: A Pilot Study.** *Journal of cardiovascular translational research*
  Mine, H., Toyama, K., Yoshimura, K., Nagashima, R., Miyamoto, S., Tsunoda, K., Abe, Y., Wagenhäuser, M. U., Mulorz, J., Spin, J. M., Tayama, E.
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- **Circulating Protein Mediators Linking Genetically Predicted Smoking to Abdominal Aortic Aneurysm: A Genomic-Proteomic Analysis.** *Arteriosclerosis, thrombosis, and vascular biology*
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  2025
- **Plasma proteome-wide Mendelian randomization reveals the association of extracellular matrix proteins with abdominal aortic aneurysm** *JVS-VASCULAR SCIENCE*
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  2025; 6
- **Plasma proteomics reveals the potential causal impact of extracellular matrix proteins on abdominal aortic aneurysm.** *medRxiv : the preprint server for health sciences*
  Khodursky, S., Yuan, S., Spin, J. M., Tsao, P. S., Levin, M. G., Damrauer, S. M.
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- **Room temperature is a key factor for modeling human lower extremity artery disease with surgical murine hind limb ischemia.** *Journal of molecular and cellular cardiology*
  Abe, Y., Javkhlant, A., Spin, J. M., Toyama, K.
  2024

- **Lack of ATP2B1 in CD4+ T Cells Causes Colitis.** *Inflammatory bowel diseases*
  Javkhlant, A., Toyama, K., Abe, Y., Spin, J. M., Mogi, M.
  2024

- **Crosstalk of platelets with macrophages and fibroblasts aggravates inflammation, aortic wall stiffening, and osteopontin release in abdominal aortic aneurysm** *CARDIOVASCULAR RESEARCH*
  Wagenhaeuser, M. U., Mulorz, J., Krott, K. J., Bosbach, A., Feige, T., Rhee, Y. H., Chatterjee, M., Petzold, N., Boeddeker, C., Ibing, W., Krueger, I., Popovic, A. M., Roseman, et al
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- **Serum microRNA-501-3p is a potential diagnostic tool for detecting mild cognitive impairment: Ehime genome study.** *Journal of neurochemistry*
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- **Time-dependent effects of cellulose and gelatin-based hemostats on cellular processes of wound healing.** *Archives of medical science : AMS*
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- **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.
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- **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.
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- **Non-coding RNAs in aneurysmal aortopathy** *VASCULAR PHARMACOLOGY*
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- **Chronic Nicotine Exposure Induces Murine Aortic Remodeling and Stiffness Segmentation-Implications for Abdominal Aortic Aneurysm Susceptibility.** *Frontiers in physiology*

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- **MicroRNA-Mediated Therapy Modulating Blood-Brain Barrier Disruption Improves Vascular Cognitive Impairment.** *Arteriosclerosis, thrombosis, and vascular biology*
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  Wagenhäuser, M. U., Sadat, H. n., Dueppers, P. n., Meyer-Janiszewski, Y. K., Spin, J. M., Schelzig, H. n., Duran, M. n.
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- **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.
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- **The Selective JAK1/3-Inhibitor R507 Mitigates Obliterative Airway Disease Both With Systemic Administration and Aerosol Inhalation** *TRANSPLANTATION*
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