



## Nicholas Leeper

Professor of Surgery (Vascular Surgery) and of Medicine (Cardiovascular)  
Surgery - Vascular Surgery

### CLINICAL OFFICE (PRIMARY)

- **Stanford Health Care**

300 Pasteur Dr Rm A32

Stanford, CA 94305

Tel (650) 725-5227      Fax (650) 498-6044

### Bio

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#### CLINICAL FOCUS

- Vascular Medicine
- Cardiovascular Disease

#### ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Surgery - Vascular Surgery
- Professor - University Medical Line, Medicine - Cardiovascular Medicine
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Stanford Cancer Institute

### Publications

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#### PUBLICATIONS

- **Zodasiran for cholesterol and triglyceride lowering in patients with hyperlipidemia: final report of phase 1 basket trial.** *Nature medicine*  
Watts, G. F., Scott, R., Sullivan, D., Baker, J., Clifton, P., Hamilton, J., Given, B., Melquist, S., Zhou, R., Gaudet, D., Goldberg, I. J., Knowles, J. W., Leeper, et al  
2026
- **Microplastics and Nanoplastics: A New Perspective in Cardiovascular Prevention.** *Circulation*  
Jarr, K. U., Peters, A., Leeper, N. J.  
2026; 153 (9): 613-615
- **Computational Modeling Predicts Benefits of Profferocytic Therapy in Human Atherosclerosis.** *Circulation*  
Jarr, K. U., Palm, K. C., Pasterkamp, G., Mokry, M., Leeper, N. J.  
2025; 152 (3): 208-211
- **Vascular smooth muscle cell plasticity in the tumor microenvironment.** *Cancer communications (London, England)*  
Bell, C. F., Baylis, R. A., Lopez, N. G., Ma, W. F., Gao, H., Wang, F., Bamezai, S., Fu, C., Kojima, Y., Adkar, S. S., Luo, L., Miller, C. L., Leeper, et al  
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- **Temporal Effects of Plozasiran on Lipids and Lipoproteins in Persistent Chylomicronemia.** *Circulation*  
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- **Pro-efferocytic nanotherapies reduce vascular inflammation without inducing anemia in a large animal model of atherosclerosis.** *Nature communications*  
Bamezai, S., Zhang, Y., Kumari, M., Lotfi, M., Alsaigh, T., Luo, L., Kumar, G. S., Wang, F., Ye, J., Puri, M., Manchanda, R., Paluri, S., Adkar, et al  
2024; 15 (1): 8034
- **Plozasiran for Managing Persistent Chylomicronemia and Pancreatitis Risk.** *The New England journal of medicine*  
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2024
- **Plozasiran, an RNA Interference Agent Targeting APOC3, for Mixed Hyperlipidemia.** *The New England journal of medicine*  
Ballantyne, C. M., Vasas, S., Azizad, M., Clifton, P., Rosenson, R. S., Chang, T., Melquist, S., Zhou, R., Mushin, M., Leeper, N. J., Hellowell, J., Gaudet, D.  
2024
- **Efferocytosis in atherosclerosis.** *Nature reviews. Cardiology*  
Adkar, S. S., Leeper, N. J.  
2024
- **Risk of Cancer After Diagnosis of Cardiovascular Disease.** *JACC. CardioOncology*  
Bell, C. F., Lei, X., Haas, A., Baylis, R. A., Gao, H., Luo, L., Giordano, S. H., Wehner, M. R., Nead, K. T., Leeper, N. J.  
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- **An Alternate Explanation.** *The New England journal of medicine*  
Alsaigh, T., Dhaliwal, G., Fukaya, E., Leeper, N. J., Sayed, N.  
2023; 388 (14): 1318-1324
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Gao, H., Baylis, R. A., Luo, L., Kojima, Y., Bell, C. F., Ross, E. G., Wang, F., Leeper, N. J.  
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- **The Role of Efferocytosis in Atherosclerosis** *CIRCULATION*  
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- **Canagliflozin and Cardiovascular and Renal Events in Type 2 Diabetes.** *The New England journal of medicine*  
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- **Clinical Trial: Plozasiran Prevents Recurrent Pancreatitis in Adults With Very Severe Hypertriglyceridemia-Results of a Post Hoc Analysis of the Phase 3 PALISADE Study.** *Alimentary pharmacology & therapeutics*  
Loomba, R., de-Madaria, E., Afghani, E., Singh, V. K., Leeper, N. J.  
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- **Workplace Pollution and Risk of Incident Coronary Artery Disease.** *medRxiv : the preprint server for health sciences*  
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2025
- **Computational Modeling Predicts Benefits of Pro-efferocytic Therapy in Human Atherosclerosis**  
Jarr, K., Palm, K., Pasterkamp, G., Mokry, M., Leeper, N.  
LIPPINCOTT WILLIAMS & WILKINS.2025
- **Genomic Insights into Incretin-Based Therapeutics for Peripheral Arterial Disease**  
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- **Generation of an induced pluripotent stem cell line from a patient with Varicose veins.** *Stem cell research*  
Noishiki, C., Manhas, A., Adkar, S. S., Tripathi, D., Wu, D., Sadat, S., Liu, L., Sallam, K., Leeper, N. J., Fukaya, E., Sayed, N.  
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- **Cardiovascular disease and diagnosis of advanced prostate cancer.** *Cardio-oncology (London, England)*  
Nead, K. T., Haas, A. M., Zhao, J., Xiong, T., Tang, C., Giordan, S. H., Leeper, N. J.  
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- **The atherosclerosis-cancer axis: the shared immunotherapeutic potential of CBL inhibition.** *European heart journal*  
Jarr, K. U., Luo, L., Leeper, N. J.  
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- **Clonal haematopoiesis of indeterminate potential and mortality in coronary artery disease.** *European heart journal*  
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- **Response to: 'A call for patient involvement in peripheral artery disease research priority setting'.** *Vascular medicine (London, England)*  
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- **Palisade: Plozasiran decreases the risk of Acute Pancreatitis (AP) and may improve Quality of Life (QOL) in Familial Chylomicronemia Syndrome (FCS)**  
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- **Exploration of Underlying Mechanisms of Vascular Ehlers-Danlos Syndrome in Patients' iPSCs-Derived Endothelial Cells**  
Liu, L., Wu, D., Bharucha, N., Turbes, N., Noishiki, C., Manhas, A., Tripathi, D., Adkar, S., Lee, J., Fukaya, E., Leeper, N., Karakikes, I., Sayed, et al  
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2025
- **Metabolomic Profiles During and After a Hypertensive Disorder of Pregnancy: The EPOCH Study.** *International journal of molecular sciences*  
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- **Genomic Insights Into Incretin-based Therapeutics for Peripheral Arterial Disease**  
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- **Research priorities for peripheral artery disease: A statement from the Society for Vascular Medicine.** *Vascular medicine (London, England)*  
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2025: 1358863X251330583
- **PNPLA3 Inhibition and Cardiometabolic Risk: Reassessing Dyslipidemia and ASCVD Concerns.** *Gastroenterology*  
Guo, S., Garcia-Medel, E., Schlupe, T., Loomba, R., Leeper, N. J.  
2025
- **Dissecting the Genetic Architecture of Intracranial Aneurysms.** *Circulation. Genomic and precision medicine*  
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- **The antipsychotic drug thiothixene stimulates macrophages to clear pathogenic cells by inducing arginase 1 and continual efferocytosis.** *Science signaling*  
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2025; 18 (881): eads6584
- **DEVELOPMENT OF BRB-002, A NOVEL NEXT-GENERATION ANTI-CD47 MOLECULE, FOR ATHEROSCLEROTIC CARDIOVASCULAR DISEASE**  
Yi, B., Signore, P., Paavola, K., Marseilles, A. M., Chen, S., Yun, R., Morrison, A., Adams, L., Winner, B., Leeper, N., Bhargava, V., Crugnale, S., Cheruvu, et al  
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- **Cardiovascular Disease and Breast Cancer Stage at Diagnosis.** *JAMA network open*  
Angelov, I., Haas, A. M., Brock, E., Luo, L., Zhao, J., Smith, B. D., Giordano, S. H., Leeper, N. J., Nead, K. T.  
2025; 8 (1): e2452890
- **ZODASIRAN SILENCES HEPATIC ANGPTL3 LEADING TO DEEP AND DURABLE REDUCTIONS IN ATHEROGENIC LIPIDS AND LIPOPROTEINS IN MIXED DYSLIPIDEMIA PATIENTS: FINAL RESULTS FROM ARCHES-2, DOUBLE-BLIND PERIOD**  
Rosenson, R., Gaudet, D., Hegele, R., Ballantyne, C., Nicholls, S., Lucas, K., Hellawell, J., Chang, T., Fu, R., Muhsin, M., Leeper, N., Watts, G.  
ELSEVIER IRELAND LTD.2024
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Kercheval, J. B., Narcisse, D. I., Nguyen, M., Rao, S. V., Gutierrez, J. A., Leeper, N. J., Maron, D. J., Rodriguez, F., Hernandez, A. F., Mahaffey, K. W., Shah, S. H., Swaminathan, R. V.  
2024
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Mueller, A. L., Schnirel, A., Kleppner, S., Tsao, P., Leeper, N. J.  
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Athavale, A., Fukaya, E., Leeper, N. J.  
2024; 44 (6): 1165-1170
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Luo, L., Haas, A. M., Bell, C. F., Baylis, R. A., Adkar, S. S., Fu, C., Angelov, I., Giordano, S. H., Klarin, D., Leeper, N. J., Nead, K. T.  
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- **Single-Cell Gene-Regulatory Networks of Advanced Symptomatic Atherosclerosis.** *Circulation research*  
Mocci, G., Sukhvasi, K., Örd, T., Bankier, S., Singha, P., Arasu, U. T., Agbabiaye, O. O., Mäkinen, P., Ma, L., Hodonsky, C. J., Aherrahrou, R., Muhl, L., Liu, et al  
2024
- **Computational protocol to identify shared transcriptional risks and mutually beneficial compounds between diseases.** *STAR protocols*  
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2024; 5 (1): 102883
- **Generation of induced pluripotent stem cell line from a patient suffering from arterial calcification due to deficiency of CD73 (ACDC).** *Stem cell research*  
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2023; 75: 103285
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Hodonsky, C. J., Turner, A. W., Khan, M. D., Barrientos, N. B., Methorst, R., Ma, L., Lopez, N. G., Mosquera, J. V., Auguste, G., Farber, E., Ma, W. F., Wong, D., Onengut-Gumuscu, et al  
2023: 100465
- **Role of vascular smooth muscle cell clonality in atherosclerosis.** *Frontiers in cardiovascular medicine*  
Luo, L., Fu, C., Bell, C. F., Wang, Y., Leeper, N. J.  
2023; 10: 1273596
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Noishiki, C., Alsaigh, T., Wu, D., Adkar, S., Chandra, V., Klarin, D., Lee, J., Fukaya, E., Leeper, N., Sayed, N.  
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- **Identifying shared transcriptional risk patterns between atherosclerosis and cancer.** *iScience*  
Baylis, R. A., Gao, H., Wang, F., Bell, C. F., Luo, L., Björkegren, J. L., Leeper, N. J.  
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- **Combined near infrared photoacoustic imaging and ultrasound detects vulnerable atherosclerotic plaque.** *Biomaterials*  
Schneider, M. K., Wang, J., Kare, A., Adkar, S. S., Salmi, D., Bell, C. F., Alsaigh, T., Wagh, D., Coller, J., Mayer, A., Snyder, S. J., Borowsky, A. D., Long, et al  
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- **A Glimpse Into the Black Box: Using Machine Learning to Prioritize Predictors of Vascular Disease.** *JACC. Advances*  
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