CURRICULUM VITAE

NICK DIMITRIOS TSIHLIS, PhD

I. PERSONAL DATA

Name, degrees	Nick Dimitrios Tsihlis, PhD (Pronounce my name)
Title	Professor
Department(s)	Surgery, Biomedical Engineering (courtesy)
Office Address	1340 Jefferson Park Ave. 1240 Pinn Hall Charlottesville, VA 22903
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II. EDUCATION

Bachelor of Arts, Biochemistry and Cell Biology	Rice University Houston, TX	1995 – 2000

III. POST-GRADUATE EDUCATION

Postdoctoral Fellow, Vascular Surgery	Northwestern University Feinberg School of Medicine Chicago, IL	2006 – 2011
Doctor of Philosophy, Biochemistry	Louisiana State University Baton Rouge, LA	2000 – 2006

IV. ACADEMIC APPOINTMENTS

Professor, Department of Surgery	University of Virginia School of Medicine Charlottesville, VA	11/2021 – present
Professor, Dept. of Biomedical Engineering	University of Virginia School of Medicine Charlottesville, VA	11/2021 – present
Associate Professor, Vascular Surgery	University of North Carolina School of Medicine Chapel Hill, NC	8/2016 – 10/2021
Research Asst. Professor, Vascular Surgery	Northwestern University Feinberg School of Medicine Chicago, IL	11/2011 – 7/2016

V. HONORS AND AWARDS

BioGrads Research Award, Louisiana State University (LSU), Baton Rouge, LA	2006
American Society for Biochemistry and Molecular Biology Travel Fellowship for the meeting in San Francisco, CA, April 1-5.	2006
BioGrads Travel Award, LSU, Baton Rouge, LA	2004
American Society for Biochemistry and Molecular Biology Travel Fellowship for the meeting in Boston, MA, June 12-16.	2004

BioGrads Research Award, LSU, Baton Rouge, LA	2002
BioGrads Travel Award, LSU, Baton Rouge, LA	2002
Honor Roll, Rice University, Houston, TX	1999
Doug Sanders, Jr. Golf Foundation Scholarship	1995 – 1999
Rice University Class of 1946 Scholarship	1995 – 1997
National Merit Scholarship	1995

VI. PROFESSIONAL AFFILIATIONS

Professional Society Memberships

Society for Biomaterials	2025 – present
Sigma Xi	2024 – 2026
Biomedical Engineering Society	2019 – present
Nitric Oxide Society	2016 – present
Association for Academic Surgery	2011 – present
American Association for the Advancement of Science	2006 – present
American Heart Association	2006 – present
American Society of Investigative Pathology, Trainee Member	2006

VII. RESEARCH ACTIVITIES

A. Areas of Research Interest

- Self-assembling, peptide amphiphile-based nanoscale materials
- Non-compressible torso hemorrhage
- Restenosis
- Abdominal aortic aneurysms
- Atraumatic therapies to remove atherosclerotic plaque
- Smoke-induced lung injury
- Customized polymer-based stents
- Effect of diabetes on nitric oxide (NO)-based therapies for restenosis
- Pharmacokinetics of nanofibers
- NO-releasing films, gels, and prosthetic materials
- Ultrasound imaging of atherosclerotic plaque and aneurysms
- Effect of sex and hormones on the diseases listed above
- Hypoxia-induced pulmonary hypertension
- Ubiquitin-proteasome pathway

B. Current Projects

- Development and evaluation of a targeted therapeutic nanofiber to slow or stop life-threatening hemorrhage following trauma
- Development of an intravenously delivered nanofiber to target MMP-2 in aortic aneurysms
- A novel endovascular approach to remove atherosclerotic plaque lesions *in situ*
- Development of a multi-modal targeted nanotherapeutic to prevent restenosis in an atherosclerotic environment
- Development of a targeted therapeutic peptide amphiphile nanofiber to treat smoke inhalation-induced acute lung injury
- Novel *in situ* custom biodegradable drug-eluting stents for endovascular surgery

- Targeted NO delivery to the vasculature to prevent restenosis in the diabetic environment
- Creation of a peptide amphiphile capable of systemic absorption after subcutaneous administration
- Investigation of non-invasive, nanoscale, targeted peptide amphiphile supramolecular structures for therapeutic management of atherosclerosis

C. Research Collaboration/Team Science

- Peptide amphiphiles/nanofibers: Sam Stupp and Mark Karver at Northwestern University
- Non-compressible torso hemorrhage: Tim Pritts at University of Cincinnati
- Membrane repair proteins in lung injury: Jianjie Ma at the University of Virginia (UVA)
- Atraumatic therapies to remove plaque: Tim Nichols at the University of North Carolina at Chapel Hill (UNC-CH)
- Targeting inflammation in models of colitis: Ankush Gosain at UVA
- Targeting tissue factor to treat pancreatic cancer: Allan Tsung at UVA

VIII. TEACHING ACTIVITIES

Classroom, Seminar, or Teaching Laboratory

From Framing a Scientific Question to Designing Experiments; UVA Resident Research Boot Camp — 2026
July 17, 100% responsible

BME4890: Nanomedicine, UVA — 2026
January 26, 100% responsible

BME4414: Biomaterials, UVA — 2025
November 12, 100% responsible

From Framing a Scientific Question to Designing Experiments; UVA Resident Research Boot Camp — 2025
July 18, 100% responsible

Mentor-mentee Relationship: Mutual Expectation Setting, Training Plan, Conflict Resolution; UVA Resident Research Boot Camp — 2024
July 15, 50% responsible

How to Review a Manuscript; T32 Research Resident Training Meeting — 2023
February 3, 100% responsible

Mentor-mentee Relationship: Mutual Expectation Setting, Training Plan, Conflict Resolution; UVA Resident Research Boot Camp — 2023
July 17, 33% responsible

How to Write an Abstract; UVA Resident Research Boot Camp — 2023
July 18, 33% responsible

BIOL 2051: Microbiology Laboratory, Louisiana State University — 2003 – 2005
Fall & spring semester, 100% responsible

BIOL 4385: Senior Biochemistry Laboratory, Louisiana State University — 2000 – 2003
Fall & spring semester, 100% responsible

BIOL 1208: Introductory Biology Laboratory, Louisiana State University — 2000
Spring semester, 100% responsible

HHMI Microbiology and Molecular Biology Workshop, Louisiana State University — 2003
One month, 15% responsible

IX. OTHER PROFESSIONAL ACTIVITIES

A. Board Memberships

Trauma Research and Combat Casualty Care Collaborative 2025 – present
Grant Reviewer
Frontiers in Cardiovascular Medicine (Atherosclerosis and Vascular Medicine) 2023 – present
Review Editor

B. Manuscript Reviewer Service

Advanced Materials	2026 – present
Biomaterials Science	2025 – present
Journal of Functional Biomaterials	2024 – present
Journal of Cardiovascular Development and Disease	2024 – present
Frontiers in Cardiovascular Medicine (Atherosclerosis and Vasc. Medicine)	2023 – present
Journal of Nanotheranostics	2023 – present
Annals of Medicine	2022 – present
Biomolecules	2021 – present
Cellular Physiology and Biochemistry	2020 – present
Journal of Vascular Surgery-Vascular Science	2020 – present
Acta Biomaterialia	2019 – present
Science Advances	2019 – present
Annals of Vascular Surgery	2012 – present
Journal of Surgical Research	2012 – present
Journal of Vascular Surgery	2012 – present

C. Professional Society Service

American Heart Association Fellowship Vascular 2 Peer Reviewer 2026
American Heart Association Fellowship Vascular 2 Peer Reviewer 2025
Biomedical Engineering Society Annual Meeting Abstract Reviewer 2025
American Heart Association Fellowship Vascular 2 Peer Reviewer 2024
American Heart Association Fellowship Vascular 2 Peer Reviewer 2023
Biomedical Engineering Society Annual Meeting Abstract Reviewer 2022
Biomedical Engineering Society Annual Meeting Abstract Reviewer 2021
Academic Surgical Congress, 15th Annual Meeting, Orlando, FL 2020
Basic Science: Applied Clinical Devices Quickshot Session Moderator
Academic Surgical Congress, 14th Annual Meeting, Houston, TX 2019
Basic Science: Vascular Oral Session Moderator
Academic Surgical Congress, 14th Annual Meeting, Houston, TX 2019
Basic Science: General Surgery – Upper GI/Bariatric Quickshot Session Moderator
American Heart Association Scientific Sessions Abstract Reviewer 2016
Academic Surgical Congress, 10th Annual Meeting, Las Vegas, NV 2015
Basic/Translational Science Quickshot Session Moderator

D. Continuing Professional Development

Faculty Mentor Training Program, UVA 2026
Introduction to Emotional Intelligence Workshop, UVA 2024
Trans Allyship Safe Zone Workshop, American Society for Engineering Education 2023
Safe Space training, UVA LGBTQ Center 2022
Faculty Professional and Leadership Skills Series, UNC-CH 2019
Session Two: Managing Conflict Effectively

Faculty Leadership Advanced Series, UNC-CH Session One: Leadership EQ	2019
Center for Faculty Excellence Mentoring Summit, UNC-CH	2019
SafeZone training, UNC-CH LGBTQ Center	2018
Equal Employment Opportunity and Diversity Fundamentals, UNC-CH	2018
Carolina Blueprint for Engaged Supervisor Training (BEST), UNC-CH	2018

X. SCHOOL, UNIVERSITY, DEPARTMENT, NATIONAL, AND STATE COMMITTEES & COUNCILS

University

Vice Chair, Animal Care and Use Committee, UVA	7/2026 – present
Animal Care and Use Program Faculty & Staff Advisory Committee, UVA	11/2024 – 7/2026
Center for Comparative Medicine Faculty & Staff Advisory Committee, UVA	1/2024 – 10/2024
Institutional Animal Care and Use Committee, UVA	9/2022 – present
Environment, Health & Safety Committee, UNC-CH	7/2018 – 10/2021

XI. FINANCIAL RESOURCES (GRANTS AND CONTRACTS)

A. Federal

i. Current

1. Funding Agency: National Institutes of Health (NIH)
Grant ID #: R01HL157054
Role: Multi-PI, Contact PI
Title of Grant: Development of a multi-modal targeted nanotherapeutic to prevent restenosis in an atherosclerotic environment
Funding Period: 07/18/2022 – 06/30/2027 (NCE granted)
Amount: $2,557,117
PI: Tsihlis/Kibbe/Stupp

2. Funding Agency: Department of Defense (DoD)
Role: Co-Investigator
Title of Grant: Preserving lung integrity and harnessing inflammation to treat burn-induced inhalation injury
Funding Period: 09/01/2026 – 08/31/2029
Amount Requested: $1,699,911
PI: Chuanxi Cai

3. Funding Agency: American Heart Association Predoctoral Fellowship
Role: Co-Mentor (0% effort)
Title of Grant: Multimodal plaque-targeted nanoparticles for the treatment of atherosclerosis
Funding Period: 07/01/2025 – 06/30/2027
Amount Requested: $69,548
PI: C. Chase Binion

4. Funding Agency: American Society of Colon and Rectal Surgeons
Role: Co-Mentor (0% effort)
Title of Grant: VCAM-1-targeted peptide nanofibers for localization in murine colitis
Funding Period: 07/01/2026 – 06/30/2027
Amount Requested: $25,000
PI: Adelso Tejada Jackson

ii. Pending

1. Funding Agency: NIH/National Heart Lung Blood Institute (NHLBI)
Role: Multi-PI
Title of Grant: Dual-action therapeutics targeting epithelial repair and NETosis for smoke inhalation-induced acute lung injury
Funding Period: 07/01/2026 – 06/30/2030
Amount Requested: $1,699,846
PI: Cai/Kibbe/Ma/Tsihlis

2. Funding Agency: NIH/National Heart Lung Blood Institute (NHLBI)
Role: Multi-PI
Title of Grant: Metastable MMP-2 targeted nanofibers for the treatment of aortic aneurysms
Funding Period: 12/01/2026 – 11/30/2031
Amount Requested: $4,848,161 (Scored in the 9th percentile, council meeting Oct. 2026)
PI: Tsihlis/Kibbe/Stupp

iii. Completed

1. Funding Agency: NIH/NHLBI
Grant ID #: 1R01HL129156-01A
Role: Multi-PI (Tsihlis/Kibbe)
Title of Grant: A novel endovascular approach to remove atherosclerotic plaque lesions *in situ*
Funding Period: 01/2019 – 12/2024
Amount: $2,820,420

2. Funding Agency: Department of Veterans Affairs
Grant ID #: BX004930
Role: Co-Investigator
Title of Grant: Novel *in situ* custom biodegradable drug-eluting stents for endovascular surgery
Funding Period: 07/2020 – 06/2025
Amount: $710,000
PI: Huizar

3. Funding Agency: DoD, Air Force Office of Scientific Research
Grant ID #: FA8650-21-2-6K01
Role: Co-Investigator
Title of Grant: Development of a targeted intravascular therapy to stop non-compressible torso hemorrhage (Human Fix-a-Flat)
Funding Period: 09/2021 – 05/2025
Amount: $1,734,771
PI: Pritts (overall), Kibbe (subcontract)

4. Funding Agency: DoD, Air Force Research Laboratory/Wright Patterson Air Force Base
Grant ID #: FA8650-16-2-6G19
Role: Co-Investigator
Title of Grant: Development of a targeted intravascular therapy to stop non-compressible torso hemorrhage (Human Fix-a-Flat)
Funding Period: 10/2016 – 10/2019
Amount: $1,700,982

PI: Pritts (overall), Kibbe (subcontract)

B. State

None

C. Other

i. Completed

1. Funding Agency: American Heart Association (AHA) Greater Midwest Affiliate
Grant ID #: 09POST2230028
Role: PI
Title of Grant: Nitric oxide inhibits neointimal hyperplasia following vascular surgery via the ubiquitin-proteasome pathway
Funding Period: 07/2009 – 06/2010
Amount: $48,428

2. Funding Agency: AHA Greater Midwest Affiliate
Grant ID #: 0725766Z
Role: PI
Title of Grant: Nitric oxide inhibits neointimal hyperplasia following vascular surgery via the ubiquitin-proteasome pathway
Funding Period: 07/2007 – 06/2009
Amount: $92,772

XII. PHYSICAL FACILITIES

The main laboratory occupies 2575 sq. ft. of general lab use (benches) and chemical fume hoods within the first floor of Pinn Hall. There are offices totaling 533 sq. ft., access to a shared cell culture room of 237 sq. ft., and a dedicated small animal surgery room of 237 sq. ft.

XIII. PERSONNEL CURRENTLY SUPERVISED

Name	Dates	Position
1. Lu Yu	2022 – present	Research Assistant Professor at UVA
2. David Gillis	2021 – present	Research Specialist at UVA
3. Robin Siletzky	2021 – present	Lab Specialist and Lab Manager at UVA

XIV. UNDERGRADUATE, MASTER'S, PHD, AND POSTDOCTORAL TRAINEES SUPERVISED

A. Undergraduate and Medical Students

Name	Dates	Current Position
1. Gabrielle Johns	2026 – present	UVA, undergraduate in Biomedical Engineering
2. Alexandra Aymard	2025 – present	UVA, undergraduate in Biomedical Engineering
3. Max Calcoen	2025 – present	UVA, undergraduate in Biomedical Engineering
4. Neil Shroff	2025 – present	UVA, undergraduate in Biomedical Engineering
5. Sophia Maragos	2022 – 2025	UVAHealth, Nursing Assistant 2 (CNA/PCT)
6. Meredith Flattum	2023 – 2025	Exact Sciences, Sales Representative, Atlanta, GA
7. Daniel Aziz	2022 – 2024	Wake Forest SOM, MS-1
8. Chase Binion	Summer 2021	UNC, MS-3
9. Laolu Charles	2020 – 2021	UVA, MS-3
10. Jenna Spence	2019 – 2021	Eastern Virginia Medical School, MS-3

11. Shakshi Patel	2019 – 2020	Emory University, PhD candidate
12. Brooke Dandurand	2017 – 2020	Philadelphia College of Osteopathic Medicine, MS-4, Suwanee, GA
13. Sofia Sami	2012 – 2013	University of Illinois College of Medicine, Psychiatry PGY-5, Chicago, IL
14. Kyle Freischlag	2012 – 2013	University of Pittsburgh, Cardiothoracic Surgery PGY-6
15. Maitreyi Sistla	2011 – 2014	Aspen Tech Policy Hub, Deputy Director, San Francisco, CA
16. Bo Fu	2009 – 2011	University of Southern California Keck School of Medicine, Assistant Professor of Psychiatry
17. Chris Oustwani	2008 – 2011	Internal Medicine, Oak Park, IL
18. Monisha Banerjee	2007 – 2008	SurgOne Sky Ridge Medical Center, Colon and Rectal Surgeon, Lone Tree, CO
19. Walker Flannery	Summer 2007	Orthopedic Surgeon, Green Bay, WI
20. Jozef Murar	2006 – 2007	Orthopedic Surgeon, Twin Cities, MN
21. Benjamin Roper	2003 – 2006	Naval Medical Center Camp Lejune, Anesthesiologist, Camp Lejune, NC

B. Master's Students

1. Wulin Jiang	2014 – 2015	Consultant (team lead), L.E.K. Consulting
2. Dounia Dems	Summer 2014	Centre d'études et d'expertises en biomimétisme (CEEBIOS), Materials Engineer, Paris, France
3. Rommel Morales	2013 – 2014	Wright State University, PGY-2

C. Doctoral Students

1. Gabrielle Largoza	2026 – present	UVA, PhD candidate in Physiology
2. Aditi Gourishankar	2025 – present	UVA, PhD candidate in Chemical Engineering
3. Trevor Stone Jr.	2024 – present	UVA, PhD candidate in Biomedical Engineering
4. Mark Bannon	2024	UNC, Postdoctoral fellow in Pharmacy
5. Chase Binion	2022 – 2026	UVA PhD awarded Apr. 2026; UNC, MS-3
6. Stephen Henrich	2014 – 2016	Northwestern University PhD in Biomedical Engineering awarded July 2021; University of Minnesota PhD candidate in Physics

D. Postdoctoral Fellows

1. Adelso Tejada Jackson, MD	2025 – present	UVA
2. Katherine Foley, MD	2024 – 2026	LSU Health SOM, PGY-4
3. Skylar Rodgers, MD	2023 – 2025	University of Mississippi, PGY-4
4. Gabrielle Steinl, MD	2023 – 2024	UVA, Surgery PGY-5
5. Shanen Mulles, MD	2022 – 2024	Rutgers University, Plastic Surgery Fellow, New Brunswick, NJ
6. Paige Tannhauser, MD	2022 – 2024	Cedars-Sinai, Vascular Surgery Fellow, Los Angeles, CA
7. James Greenwood, MD	2021 – 2024	University of South Florida, Surgery Fellow, Tampa, FL
8. Vina Chhaya, MD	2021 – 2023	University of Maryland, Vascular Surgery Fellow
9. Benjamin Ledford, PhD	2018 – 2026	United Therapeutics, Senior Scientist,

		Raleigh, NC
10. Mark Barlek, DO	2020 – 2022	Corewell Health, Vascular Surgery Fellow, Royal Oak, MI
11. Thomas Wyatt, DO	2020 – 2022	Swedish Medical Center, Thoracic Surgery Fellow, Seattle, WA
12. Jessica Rouan, MD	2019 – 2021	Atrium Health, Critical Care Surgeon, Albemarle, NC
13. Kathleen Marulanda, MD	2018 – 2020	Penn Medicine, Assistant Professor of Surgery
14. Alexandra Mercel, DO	2018 – 2020	Fairview Health, Staff Vascular Surgeon, Minneapolis, MN
15. Emily Newton, MD	2018 – 2020	Kansas University, Assistant Professor of Cardiovascular and Thoracic Surgery
16. Lu Yu, PhD	2017 – 2021	UVA, Research Assistant Professor of Surgery
17. Mia Klein, MD	2017 – 2019	Grand Strand Health, Trauma and Acute Surgical Care Surgeon, Myrtle Beach, SC
18. Erica Peters, PhD	2017 – 2019	Kymanox, Senior Scientist Morrisville, NC
19. Wenhan He, PhD	2017 – 2020	Gentex Corporation, Polymer Chemist, Holland, MI
20. Hussein Kassam, MD	2016 – 2020	University of New Mexico, Gastroenterology Fellow

XV. PAPERS PUBLISHED OR IN PRESS

A. Peer Reviewed

42. Stone TP[†], Maragos SL[†], Greenwood JD, Steinl GK, Egner SA, Ledford BT, Gillis DC, Karver MR, Palmer LC, Pritts TA, **Tsihlis ND**, Stupp SI, Kibbe MR*. Improved localization to sites of hemorrhage via peptide amphiphile nanofibers containing a factor VII-mimetic epitope. *Acta Biomater.* 2026 Jul 21:S1742-7061(26)00482-4. doi: 10.1016/j.actbio.2026.07.035. Online ahead of print. PMID: 42480781.
Dr. Tsihlis contributed to study design, data interpretation, and manuscript preparation including critical editing of the final version of the manuscript.

41. Binion CC, Tannhauser PA, Barlek MH, Gillis DC, Yu L, Karver MR, Stupp SI, **Tsihlis ND[#]**, Kibbe MR*[#]. Nitric oxide-releasing nanofibers prevent restenosis after arterial injury in a renal failure model. *J Surg Res.* 2026 May 5:S0022-4804(26)00230-1. doi: 10.1016/j.jss.2026.03.115. Epub ahead of print. PMID: 42091348. (Featured on the front cover.)
Dr. Tsihlis contributed to study design, data interpretation, and manuscript preparation including critical editing of the final version of the manuscript.

40. Foley KI, Jackson AT, **Tsihlis ND[#]**, Kibbe MR*[#]. Peptide amphiphile nanofibers: advanced drug delivery platforms for cardiovascular therapeutics. *Expert Opin Drug Deliv.* 2026 Feb 26. doi: 10.1080/17425247.2026.2631770. Epub ahead of print. PMID: 41689844.
Dr. Tsihlis contributed to literature search design, article structure, figure generation, and manuscript preparation including critical editing of the final version of the manuscript.

39. Aziz DZ, Binion CC, Wang X, Xu H, Rodgers SC, Gillis DC, Ledford BT, Siletzky R, Zhou X, **Tsihlis ND**, Ma J, Cai C, Kibbe MR*. Mitsugumin 53 protects against smoke inhalation lung injury via suppressing the proinflammatory response in a rat model. *Free Radic Biol Med.* 2026 Feb 16:S0891-5849(26)00124-3. doi: 10.1016/j.freeradbiomed.2026.02.027. Epub ahead of print. PMID: 41707744.
Dr. Tsihlis contributed to study design, data interpretation, and manuscript preparation including critical editing of the final version of the manuscript.

38. Yu L, Newton E, Gillis DC, Cooley B, Sun K, Dandurand BR, Siletzky R, **Tsihlis ND**, Kibbe MR*. Ascorbate elastomer-coated ePTFE grafts inhibit neointimal hyperplasia and enhance vascular healing. *Bioact Mater.* 2026 Feb;56:726-742. doi: 10.1016/j.bioactmat.2025.10.014. eCollection 2026 Feb. PMID: 41473826; PMCID: PMC12747211. (Featured on the front cover.)
Dr. Tsihlis contributed to study design, data interpretation, and manuscript preparation including critical editing of the final version of the manuscript.

37. Aziz DZ, Binion CC, Xu H, Wang X, Rodgers SC, Gillis DC, Ledford BT, Siletzky R, Zhou X, Li Y, Cai C, **Tsihlis ND**, Ma J, Kibbe MR*. Humanized CitH3 monoclonal antibody improves respiratory function and attenuates neutrophil-mediated inflammation in a rodent model of smoke inhalation lung injury. *J Am Coll Surg.* 2026 Jan 1;242(1):1-12. doi: 10.1097/XCS.0000000000001620. Epub 2025 Dec 17. PMID: 41051091.
Dr. Tsihlis contributed to study design, data interpretation, and manuscript preparation including critical editing of the final version of the manuscript.

36. Ledford BT, Barlek MH, Weiss JM, Vang J, Siletzky RM, Gillis DC, **Tsihlis ND**, Kibbe MR*. Apolipoprotein E deficiency produces an inflammatory AAA in a rat calcium chloride-induced model. *J Surg Res.* 2025 Jun 20:312:83-93. doi: 10.1016/j.jss.2025.05.011. Online ahead of print. PMID: 40543135.
Dr. Tsihlis contributed to study design, data interpretation, and manuscript preparation including critical editing of the final version of the manuscript.

35. Barlek MH, Gillis DC, Egner SA, Maragos SL, Karver MR, Stupp SI, **Tsihlis ND**, Kibbe MR*. Systemic peptide amphiphile nanofiber delivery following subcutaneous injection. *Biomaterials.* 2023 Dec;303:122401. doi: 10.1016/j.biomaterials.2023.122401. Epub 2023 Nov 18. PMID: 38006645.
Dr. Tsihlis contributed to study design, data interpretation, and manuscript preparation including critical editing of the final version of the manuscript.

34. Ledford BT, Wyatt TG, Vang J, Weiss JM, **Tsihlis ND**, Kibbe MR*. Effects of particle size, charge, shape, animal disease state, and sex on the biodistribution of intravenously administered nanoparticles. *Part. Part. Syst. Charact.* 2023, 40, 2300001. https://doi.org/10.1002/ppsc.202300001.
Cited 0 times, Rank 207 of 342 Multidisciplinary Materials Science journals.
Dr. Tsihlis contributed to study design, data interpretation, and manuscript preparation including critical editing of the final version of the manuscript.

33. Ledford BT, Akerman AW, Sun K, Gillis DC, Weiss JM, Vang J, Willcox S, Clemons TD, Sai H, Qiu R, Karver MR, Griffith JD, **Tsihlis ND**, Stupp SI, Ikonomidis JS, Kibbe MR*. Peptide amphiphile supramolecular nanofibers designed to target abdominal aortic aneurysms. *ACS Nano*. 2022 May 24;16(5):7309-7322. doi: 10.1021/acsnano.1c06258. PMID: 35504018; PMCID: PMC9733406.
Cited 2 times, Rank 12 of 107 Nanoscience and Nanotechnology journals.
Dr. Tsihlis contributed to study design, data interpretation, and manuscript preparation including critical editing of the final version of the manuscript.

32. Peters EB, Karver MR, Sun K, Gillis DC, Biswas S, Clemons TD, He W, **Tsihlis ND**, Stupp SI, Kibbe MR*. Self-assembled peptide amphiphile nanofibers for controlled therapeutic delivery to the atherosclerotic niche. *Advanced Therapeutics*. 2021 Sep;4(9):2100103. doi: 10.1002/adtp.202100103. PMID: 34926792; PMCID: PMC8680456.
Cited 2 times, Rank 78 of 279 Pharmacology and Pharmacy journals.
Dr. Tsihlis contributed to study design, data interpretation, and manuscript preparation including critical editing of the final version of the manuscript.

31. Marulanda K, Mercel A, Roark J, Gillis DC, Sun K, Gambarian M, Weiss J, **Tsihlis ND**, Karver MR, Centeno SR, Peters EB, Clemons TD, Stupp SI, McLean SE, Kibbe MR*. Intravenous delivery of lung-targeted nanofibers for pulmonary hypertension in mice. *Advanced Healthcare Materials.* 2021 Jul;10(13):e2100302. doi: 10.1002/adhm.202100302. PMID: 34061473; PMCID: PMC8273153.

Cited 6 times, Rank 8 of 98 Biomedical Engineering journals.
Dr. Tsihlis contributed to study design, data interpretation, and manuscript preparation including critical editing of the final version of the manuscript.

30. Mercel AI, Marulanda K, Gillis DC, Sun K, Clemons TD, Willcox S, Griffith J, Peters EB, Karver MR, **Tsihlis ND**, Cairns BA, Maile R, Stupp SI, Kibbe MR*. Development of novel nanofibers targeted to smoke-injured lungs. *Biomaterials.* 2021 Jul;274:120862. doi: 10.1016/j.biomaterials.2021.120862. PMID: 33975274; PMCID: PMC8184637.
Cited 4 times, Rank 4 of 98 Biomedical Engineering journals.
Dr. Tsihlis contributed to study design, data interpretation, and manuscript preparation including critical editing of the final version of the manuscript.

29. Newton ER, Gillis DC, Sun K, Dandurand BR, Siletzky R, Karver MR, **Tsihlis ND**, Stupp SI, Kibbe MR*. Evaluation of a targeted drug-eluting intravascular nanotherapy to prevent neointimal hyperplasia in an atherosclerotic rat model. *Advanced NanoBiomed Research*. Epub 2021 Apr 03. https://doi.org/10.1002/anbr.202000093.
Cited 0 times, Rank 98 of 139 Nanoscience and Nanotechnology journals.
Dr. Tsihlis contributed to study design, data interpretation, and manuscript preparation including critical editing of the final version of the manuscript.

28. Yu L, Newton ER, Gillis DC, Sun K, Cooley B, Keith AN, Sheiko S, **Tsihlis ND**, Kibbe MR*. Coating small-diameter ePTFE vascular grafts with tunable poly(diol-co-citrate-co-ascorbate) elastomers to reduce neointimal hyperplasia. *Biomaterials Science*. 2021 Aug 7;9(15):5160-5174. doi: 10.1039/d1bm00101a.
Cited 5 times, Rank 9 of 45 Biomaterials Materials Science journals.
Dr. Tsihlis contributed to study design, data interpretation, and manuscript preparation including critical editing of the final version of the manuscript.

27. Kassam HA, Bahnson E, Cartaya A, Jiang W, Avram MJ, **Tsihlis ND**, Stupp SI, Kibbe MR*. Pharmacokinetics and biodistribution of a collagen-targeted peptide amphiphile for cardiovascular applications. *Pharmacology Research & Perspectives*. 2020 Dec;8(6):e00672. doi: 10.1002/prp2.672. PMID: 33090704.
Cited 9 times, Rank 174 of 275 Pharmacology and Pharmacy journals.
Dr. Tsihlis contributed to study design, data interpretation, and manuscript preparation including critical editing of the final version of the manuscript.

26. Marulanda K, **Tsihlis ND**, McLean SE, Kibbe MR*. Emerging antenatal therapies for congenital diaphragmatic hernia-induced pulmonary hypertension in preclinical models. *Pediatric Research*. 2021 May;89(7):1641-1649. doi: 10.1038/s41390-020-01191-x. PMID: 33038872; PMCID: PMC8035353.
Cited 6 times, Rank 17 of 129 Pediatrics journals.
Dr. Tsihlis contributed to study design, data interpretation, and manuscript preparation including critical editing of the final version of the manuscript.

25. Mercel AI, Gillis DC, Sun K, Dandurand BR, Weiss JM, Cairns BA, **Tsihlis ND**, Maile R, Kibbe MR*. A comparative study of a pre-clinical survival model of smoke inhalation injury in mice and rats. *American Journal of Physiology-Lung Cellular and Molecular Physiology.* 2020 Sep 1;319(3):L471-L480. doi: 10.1152/ajplung.00241.2020. PMID: 32697601; PMCID: PMC7518053.
Cited 6 times, Rank 11 of 81 Physiology journals.
Dr. Tsihlis contributed to study design, data interpretation, and manuscript preparation including critical editing of the final version of the manuscript.

24. Klein MK, Kassam HA, Lee RH, Bergmeier W, Peters EB, Gillis DC, Dandurand BR, Rouan JR, Karver MR, Struble MD, Clemons TD, Palmer LC, Gavitt B, Pritts TA, **Tsihlis ND**, Stupp SI, Kibbe MR*. Development of optimized tissue-factor-targeted peptide amphiphile nanofibers to slow noncompressible torso hemorrhage. *ACS Nano.* 2020 Jun 23;14(6):6649-6662. doi: 10.1021/acsnano.9b09243. PMID: 32469498. PMCID: PMC7587470.
Cited 26 times, Rank 21 of 355 Multidisciplinary Materials Science journals.

Dr. Tsihlis contributed to study design, data interpretation, and manuscript preparation including critical editing of the final version of the manuscript.

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18. Peters EB, **Tsihlis ND**, Karver MR, Chin SM, Musetti B, Ledford BT, Bahnson EM, Stupp SI, Kibbe MR*. Atheroma niche-responsive nanocarriers for immunotherapeutic delivery. *Adv Healthc Mater.* 2019 Feb;8(3):e1801545. doi: 10.1002/adhm.201801545. PMID: 30620448; PMCID: PMC6367050.
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17. Morgan CE, Dombrowski AW, Rubert Pérez CM, Bahnson ES, **Tsihlis ND**, Jiang W, Jiang Q, Vercammen JM, Prakash VS, Pritts TA, Stupp SI, Kibbe MR*. Correction to Tissue-factor targeted peptide amphiphile nanofibers as an injectable therapy to control hemorrhage. *ACS Nano.* 2018 Nov 27;12(11):11711. doi:10.1021/acsnano.8b07028. PMID: 30481963.
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2. Tsihlis ND and Grove A*. The *Saccharomyces cerevisiae* RNA polymerase III recruitment factor subunits Brf1 and Bdp1 impose a strict sequence preference for the downstream half of the TATA box. *Nucleic Acids Res.* 2006;34(19):5585-93. PMID: 17028095; PMCID: PMC1636458.
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Mr. Tsihlis contributed to data collection data interpretation, and manuscript preparation including critical editing of the final version of the manuscript.

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#Contributed equally and share senior authorship.
Underlined authors indicate trainees.

B. Books and/or Chapters

1. Moreira ES and **Tsihlis ND.** Chapter 6: How to Conduct Cell Culture. *Success in Academic Surgery: Basic Science*, pp. 65-82. Springer-Verlag, London (2014).

C. Electronic Media

1. Kibbe-Tsihlis Lab website: https://med.virginia.edu/kibbe-tsihlis-lab/ (2022 – present)
2. Kibbe Lab website: http://kibbelab.unc.edu/ (2016 – 2021)
3. Kibbe Lab website: http://kibbelab.northwestern.edu/ (2011 – 2016)

D. Abstracts

1. Aziz DZ, Yu L, Xu H, Gillis DC, **Tsihlis ND**, Kibbe MR. Delivery of ascorbic acid by targeted nanofibers improves pulmonary function in smoke-induced acute lung injury. Oral presentation. American College of Surgeons Clinical Congress, Washington, DC. September 2026.
2. Binion CC, Shroff NS, Siletzky R, Karver MR, **Tsihlis ND**, Kibbe MR. Estrogen-loaded targeted nanoparticles reduce plaque burden in an atherosclerotic rat model. Oral presentation, selected

for Excellence in Research Award. American College of Surgeons Clinical Congress, Washington, DC. September 2026.

3. Foley KI, Jackson AT, Rodgers SC, Stone Jr. TP, Gillis DC, Siletzky R, Karver MR, Stupp SI, **Tsihlis ND**, Kibbe MR. Characterization of humanin-loaded nanofibers designed to localize to arterial injury. Short oral presentation. American College of Surgeons Clinical Congress, Washington, DC. September 2026.
4. Jackson AT, Ledford BT, Binion CC, Stone Jr. TP, Gillis DC, Foley KI, Karver MR, Stupp SI, **Tsihlis ND**, Kibbe MR. Plaque-targeted nanofibers enable controlled release and functional delivery of the NLRP3 inhibitor MCC950. Short oral presentation. American College of Surgeons Clinical Congress, Washington, DC. September 2026.
5. Aziz DZ, Binion CC, Wang X, Xu H, Rodgers SC, Gillis DC, Ledford BT, Siletzky R, Zhou X, **Tsihlis ND**, Ma J, Cai C, Kibbe MR. Mitsugumin 53 protects against smoke inhalation lung injury via suppressing the proinflammatory response in a rat model. Oral presentation. Military Health System Research Symposium, Kissimmee, FL. August 2026.
6. Yu L, Gillis DC, Ledford BT, Siletzky R, Gray K, Karver MR, Stupp SI, Kibbe MR, **Tsihlis ND**. Distinct ascorbate conjugation behavior on the surface of two peptide amphiphile nanofiber systems via click chemistry. Oral presentation. Society for Biomaterials Annual Meeting and Exposition, Atlanta, GA. March 2026.
7. Yu L, Gillis DC, Siletzky R, Xu H, Aziz DZ, Foley KI, Ledford BT, **Tsihlis ND**, Kibbe MR. Ascorbate-elastomer coatings for small-diameter ePTFE grafts to inhibit neointimal hyperplasia. Quickshot oral presentation. 21st Annual Academic Surgical Congress, Orlando, FL. February 2026.
8. Foley KI, Yu L, Stone Jr. TP, Gillis DC, Karver MR, Stupp SI, **Tsihlis ND**, Kibbe MR. Design and characterization of an ADAM33-targeted nanofiber with ascorbate acid for arterial injury. Quickshot oral presentation. 21st Annual Academic Surgical Congress, Orlando, FL. February 2026.
9. Binion CC, Gillis DC, Aziz DZ, Shroff NS, Karver MR, **Tsihlis ND**, Kibbe MR. Targeting atherosclerotic plaque with peptide amphiphile nanoparticles. Oral presentation. 21st Annual Academic Surgical Congress, Orlando, FL. February 2026.
10. Aziz DZ, Xu H, Binion CC, Wang X, Zhou X, Ma J, **Tsihlis ND**, Cai C, Kibbe MR. MG53 improves oxygenation and alveolar injury in a preclinical model of smoke inhalation injury. Oral presentation. 21st Annual Academic Surgical Congress, Orlando, FL. February 2026.
11. Stone Jr. TP, Maragos SL, Xu H, Gillis DC, Yu L, Karver MR, Palmer LC, Pritts TA, **Tsihlis ND**, Stupp SI, Kibbe MR. Intravascular tissue factor-targeted peptide amphiphile nanofibers for non-compressible torso hemorrhage. Poster presentation. NanoDDS, Houston, TX. October 2025.
12. Ledford BT, Karver MR, Palmer LC, Dave D, Gray K, Gillis DC, Xu H, Stupp SI, **Tsihlis ND**, Kibbe MR. MMP-2-targeting peptide amphiphiles as a vehicle for treatment of aortic aneurysms. Poster presentation. NanoDDS, Houston, TX. October 2025.
13. Stone Jr. TP, Maragos SL, Gray K, Egner SA, Ledford BT, Yu L, Karver MR, Pritts TA, Palmer LC, **Tsihlis ND**, Stupp SI, Kibbe MR. Injectable tissue factor-targeted peptide amphiphile nanofibers for non-compressible torso hemorrhage. Poster presentation. Annual Meeting of the Biomedical Engineering Society, San Diego, CA. October 2025.
14. Binion CC, Gillis DC, Karver M, **Tsihlis ND**, Kibbe MR. Multimodal therapeutic loading of plaque-targeted peptide amphiphile nanoparticles for the treatment of atherosclerosis. Poster presentation. Annual Meeting of the Biomedical Engineering Society, San Diego, CA. October 2025.
15. Aziz DZ, Gillis DC, Binion CC, Gray K, Karver MR, Stupp SI, **Tsihlis ND**, Kibbe MR. Non-covalent incorporation of an antioxidant peptide in angiotensin-converting enzyme 1-targeted nanofibers for the treatment of smoke-induced lung injury. Poster presentation. Annual Meeting of the Biomedical Engineering Society, San Diego, CA. October 2025.
16. Rodgers SC, Maragos SL, Karver MR, Stupp SI, **Tsihlis ND**, Kibbe MR. Plaque-targeted nanofibers loaded with humanin analogue for treatment of atherosclerosis. Oral presentation.

American College of Surgeons Clinical Congress, Chicago, IL. October 2025.

17. Foley KI, Gillis DC, Flattum M, Binion C, Siletzky R, Karver M, Stupp SI, **Tsihlis ND**, Kibbe MR. Characterization and evaluation of an ADAM33-targeted nanofiber designed to localize to arterial injury. Oral presentation. American College of Surgeons Clinical Congress, Chicago, IL. October 2025.
18. Binion CC, Gillis DC, Karver M, **Tsihlis ND**, Kibbe MR. Therapeutic loading of atherosclerotic plaque-targeted peptide amphiphile nanoparticles. Oral presentation. American College of Surgeons Clinical Congress, Chicago, IL. October 2025.
19. Aziz DZ, Xu H, Wang X, Cai C, Ma J, Li Y, **Tsihlis ND**, Kibbe MR. Citrullinated histone H3 monoclonal antibody improves respiratory function in a rodent model of smoke inhalation lung injury. Oral presentation. American College of Surgeons Clinical Congress, Chicago, IL. October 2025.
20. Aziz DZ, Xu H, Gillis DC, **Tsihlis ND**, Kibbe MR. Temporal characterization of a smoke inhalation lung injury model. Poster presentation. University of Virginia Department of Surgery Annual Resident Research Day, Charlottesville, VA. April 2025.
21. Aziz DZ, Yu L, Mulles SM, Karver MR, **Tsihlis ND**, Kibbe MR. Ascorbic acid incorporation into peptide amphiphile nanofibers targeting smoke-induced lung injury. Quickshot oral presentation. 20th Annual Academic Surgical Congress, Las Vegas, NV. February 2025.
22. Binion CC, Ledford BT, Gillis DC, Egner SA, Karver MR, **Tsihlis ND**, Kibbe MR. Binding affinity and characterization of atherosclerotic plaque-targeted nanoparticles. Oral presentation. 20th Annual Academic Surgical Congress, Las Vegas, NV. February 2025.
23. Rodgers SC, Chhaya V, Maragos SL, Gillis DC, Xu H, Egner SA, Karver MR, Stupp SI, **Tsihlis ND**, Kibbe MR. Plaque-targeted nanofibers loaded with anti-inflammatory agent reduces atherosclerotic plaque in a murine model. Quickshot oral presentation. 20th Annual Academic Surgical Congress, Las Vegas, NV. February 2025.
24. Tannhauser PA, Binion CC, Barlek MH, Xu H, Gillis DC, Yu L, Karver MR, **Tsihlis ND**, Kibbe MR. Targeted nitric oxide treatment prevents restenosis in a rodent model of renal failure. Oral presentation. 20th Annual Academic Surgical Congress, Las Vegas, NV. February 2025.
25. Binion CC, Ledford BT, Karver M, **Tsihlis ND**, Kibbe MR. Characterization of plaque-targeted peptide amphiphile nanoparticles for the treatment of atherosclerosis. Poster presentation. Annual Meeting of the Biomedical Engineering Society, Baltimore, MD. October 2024.
26. Rodgers SC, Chhaya VY, Siletzky RM, Egner SA, Karver MR, Stupp SI, **Tsihlis ND**, Kibbe MR. Optimal loading of functional statins in atherosclerotic plaque-targeting nanofibers. Quickshot oral presentation. American College of Surgeons Clinical Congress, San Francisco, CA. October 2024.
27. Binion CC, Greenwood JD, Gillis DC, Tannhauser P, Mulles S, Chhaya VY, Steinl GK, **Tsihlis ND**, Nichols TC, Kibbe MR. A novel endovascular enzymatic approach to plaque debulking in a swine model of atherosclerosis. Oral presentation. American College of Surgeons Clinical Congress, San Francisco, CA. October 2024.
28. Mulles SM, Aziz DZ, Xu H, Gillis DC, Karver MR, Stupp SI, **Tsihlis ND**, Kibbe MR. Developing a targeted nanofiber for smoke inhalation injury. Poster presentation. University of Virginia Department of Surgery Annual Resident Research Day, Charlottesville, VA. April 2024.
29. Binion CC, Gillis DC, Greenwood JD, Tannhauser P, Mulles S, Chhaya VY, Steinl GK, Rodgers SC, **Tsihlis ND**, Nichols TC, Kibbe MR. A novel endovascular enzymatic approach to plaque debulking in a swine model of atherosclerosis. Poster presentation. University of Virginia Department of Surgery Annual Resident Research Day, Charlottesville, VA. April 2024.
30. Maragos SL, Chhaya VY, Rodgers S, **Tsihlis ND**, Kibbe MR. Effects of sex on aortic root atherosclerotic plaque development in mice. Poster presentation. Annual Meeting of the Virginia Section of the American Chemical Society, Charlottesville, VA. April 2024.
31. Greenwood JD, Egner SA, Ledford BT, Steinl GK, Yu L, Karver MR, Pritts TA, Palmer LC, **Tsihlis ND**, Stupp SI, Kibbe MR. Injectable tissue factor-targeted peptide amphiphile nanofibers for non-compressible torso hemorrhage. Oral presentation. 19th Annual Academic Surgical

Congress, Washington, D.C. February 2024.

32. Mulles SM, Wyatt TG, Aziz D, Xu H, Gillis DC, Yu L, Karver MR, Stupp SI, **Tsihlis ND**, Kibbe MR. Assessment of a novel imaging method to measure nanomaterials targeted to smoke-induced lung injury. Oral presentation. 19th Annual Academic Surgical Congress, Washington, D.C. February 2024.

33. Rodgers SC, Chhaya VY, Egner SA, Karver MR, Stupp SI, **Tsihlis ND**, Kibbe MR. Optimization of anti-inflammatory therapeutic loading of atherosclerotic plaque-targeted nanofibers. Oral presentation. 19th Annual Academic Surgical Congress, Washington, D.C. February 2024.

34. Tannhauser PA, Barlek MH, Xu H, Gillis DC, Yu L, Maragos SL, Karver MR, Stupp SI, **Tsihlis ND**, Kibbe MR. Design and optimization of a subcutaneously delivered nanofiber that targets vascular injury. Oral presentation. 19th Annual Academic Surgical Congress, Washington, D.C. February 2024.

35. Chhaya VY, Maragos SL, Qiu R, Egner SA, Karver MR, Stupp SI, **Tsihlis ND**, Kibbe MR. A targeted nanofiber loaded with liver X receptor agonist reduces atherosclerotic plaque and prevents hepatotoxicity. Oral presentation. American Heart Association's Vascular Discovery: From Genes to Medicine Scientific Sessions, Boston, MA. May 2023.

36. Aziz D, Yu L, **Tsihlis ND**, Kibbe MR. Synthesis of *L*-ascorbic acid derivatives: incorporation of a "click chemistry" azido functional group at the *C6* position. Poster presentation. Annual Meeting of the Virginia Section of the American Chemical Society, Charlottesville, VA. April 2023.

37. Maragos SL, Chhaya VY, Kibbe MR, **Tsihlis ND**. Effects of sex on aortic root atherosclerotic plaque development in mice. Poster presentation. Annual Meeting of the Virginia Section of the American Chemical Society, Charlottesville, VA. April 2023.

38. Chhaya VY, Qiu R, Kumbhar AS, Karver MR, Stupp SI, **Tsihlis ND**, Kibbe MR. Loading a liver X receptor agonist in peptide amphiphile nanofibers targeting atherosclerotic plaque. Quickshot oral presentation. 18th Annual Academic Surgical Congress, Houston, TX. February 2023.

39. Barlek MH, Gillis DC, Egner, SA, Maragos S, Karver MR, Stupp SI, **Tsihlis ND**, Kibbe MR. Systemic peptide amphiphile nanofiber delivery following subcutaneous injection. Oral presentation. 18th Annual Academic Surgical Congress. Houston, TX. February 2023.

40. Ledford BT, Akerman AW, Sun K, Gillis DC, Weiss JM, Vang J, Willcox S, Clemons TD, Sai H, Qiu R, Karver MR, Griffith JD, **Tsihlis ND**, Stupp SI, Ikonomidis JS, Kibbe MR. Peptide amphiphile supramolecular nanofibers designed to target abdominal aortic aneurysms. Oral presentation. Annual Meeting of the Biomedical Engineering Society, San Antonio, TX. October 2022.

41. Wyatt TG, Sun KK, Siletzky R, Weiss JM, Charles PA, Mercel AI, **Tsihlis ND**, Karver MR, Stupp SI, Kibbe MR. Development of ACE-targeted therapeutic-containing nanofibers for the treatment of SI-ALI. Oral presentation. 17th Annual Academic Surgical Congress, Orlando, FL. February 2022.

42. Barlek MH, Ledford BT, Weiss JM, Vang J, Sun KK, Siletzky R, **Tsihlis ND**, Kibbe MR. The role of ApoE in the development of inflammatory abdominal aortic aneurysms. Oral presentation. 17th Annual Academic Surgical Congress, Orlando, FL. February 2022.

43. Binion CC, **Tsihlis ND**, Kibbe MR. Investigation of noninvasive, nanoscale, targeted peptide amphiphile supramolecular structures for therapeutic management of atherosclerosis. Poster presentation. University of North Carolina School of Medicine John B. Graham Research Foundation Day. Chapel Hill, NC. November 2021.

44. Barlek MH, Karver MR, Gillis DC, Sun KK, Stupp SI, **Tsihlis ND**, Kibbe MR. Targeted delivery of a nanotherapeutic to prevent arterial restenosis in a diabetic environment. Oral presentation. American College of Surgeons Clinical Congress, virtual meeting. October 2021.

45. Marulanda KM, Mercel AI, Gillis DC, Sun KK, Gambarian M, Roark J, **Tsihlis ND**, Karver MR, Clemons TD, Stupp SI, McLean SE, Kibbe MR. Intravenous delivery of lung-targeted nanofibers for pulmonary hypertension in mice. Oral presentation. Vascular Research Initiatives Conference, San Diego, CA. August 2021.

46. Rouan J, Clemons TD, Willcox S, Peters EB, Gillis DC, Klein MK, Karver MR, Palmer LC, Pritts

TA, **Tsihlis ND**, Stupp SI, Kibbe MR. Injectable tissue factor-targeted peptide amphiphile nanofibers carrying prothrombotic therapies. Quickshot oral presentation. 16th Annual Academic Surgical Congress, virtual meeting. February 2021.

47. Newton ER, Dandurand BR, Gillis DC, Sun KK, Siletzky R, Karver MR, Struble MD, **Tsihlis ND**, Stupp SI, Kibbe MR. Evaluation of a targeted drug eluting intravascular nanotherapy to prevent neointimal hyperplasia in a novel atherosclerotic rat model. Oral presentation. Vascular Research Initiatives Conference, Chicago, IL. November 2020.

48. Newton ER, Dandurand BR, Gillis DC, Sun KK, Siletzky R, Karver MR, Struble MD, **Tsihlis ND**, Stupp SI, Kibbe MR. Evaluation of a targeted drug eluting intravascular nanotherapy to prevent neointimal hyperplasia in a novel atherosclerotic rat model. Vascular Discovery: From Genes to Medicine Scientific Sessions 2020, virtual meeting. May 2020.

49. Marulanda K, Mercel A, Roark J, Gambarian M, Gillis DC, Sun K, Weiss J, Centeno SR, Karver M, **Tsihlis ND**, McLean SE, Kibbe MR. Lung-targeted peptide amphiphile nanofibers for intravascular treatment of pulmonary hypertension. 44th Annual Meeting of the Association of VA Surgeons, Pittsburgh, PA. April 2020 (Conference canceled).

50. Marulanda KM, Mercel A, Gambarian M, Gillis DC, Sun K, Karver MR, **Tsihlis ND**, McLean SE, Kibbe MR. ACE-targeted peptide amphiphile nanofibers for localized treatment of pulmonary hypertension. Quickshot oral presentation. 15th Annual Academic Surgical Congress, Orlando, FL. February 2020.

51. Mercel A, Marulanda KM, Gillis DC, Sun K, Dandurand B, Karver MR, **Tsihlis ND**, Maile R, Cairns BA, Kibbe MR. Development of a targeted nanofiber to treat smoke inhalation injury. Oral presentation. 15th Annual Academic Surgical Congress, Orlando, FL. February 2020.

52. Newton ER, Kassam HA, Dandurand B, Sun K, Ledford BT, Siletzky R, Gillis DC, Bahnson EM, Karver MR, Struble MD, **Tsihlis ND**, Stupp SI, Kibbe MR. Targeted Nitric Oxide Delivery to Prevent Restenosis in the Atherosclerotic Environment. Quickshot oral presentation. 15th Annual Academic Surgical Congress, Orlando, FL. February 2020.

53. Klein MK, Kassam HA, Gillis DC, Peters EB, Karver MR, Struble MD, Palmer LC, **Tsihlis ND**, Stupp SI, Pritts TA, Gavitt B, Kibbe MR. An injectable tissue factor-targeted nanofiber to slow non-compressible torso hemorrhage. Oral presentation. 5th Annual Excelsior Surgical Society Meeting, Region 13 ACS Committee on Trauma, San Francisco, CA. October 2019.

54. Klein MK, Kassam HA, Gillis DC, Peters EB, Karver MR, Struble MD, Palmer LC, **Tsihlis ND**, Stupp SI, Pritts TA, Gavitt B, Kibbe MR. An injectable tissue factor-targeted nanofiber to slow non-compressible torso hemorrhage. Oral presentation. 43rd Annual Meeting of the Association of VA Surgeons, Seattle, WA. April 2019.

55. He W, Kassam HA, Klein MK, **Tsihlis ND**, Kibbe MR. A paradigm-shifting stent technology: liquid cast arterial stents. Poster presentation. Society for Biomaterials, Seattle, WA. April 2019.

56. Klein MK, Kassam HA, Karver MR, Struble MD, Palmer LC, **Tsihlis ND**, Stupp SI, Gavitt B, Pritts TA, Kibbe MR. Tissue factor-targeted peptide amphiphile as an injectable therapy for hemorrhage. Oral presentation. 54th Congress of the European Society for Surgical Research, Geneva, Switzerland. March 2019.

57. Klein MK, Kassam HA, Karver MR, Struble MD, Palmer LC, **Tsihlis ND**, Stupp SI, Gavitt B, Pritts TA, Kibbe MR. Tissue factor-targeted peptide amphiphile as an injectable therapy for hemorrhage. Plenary oral presentation. 14th Annual Academic Surgical Congress, Houston, TX. February 2019.

58. Klein MK, Kassam HA, Karver MR, Struble MD, Palmer LC, **Tsihlis ND**, Stupp SI, Gavitt B, Pritts TA, Kibbe MR. Tissue factor-targeted peptide amphiphile as an injectable therapy for hemorrhage. Quickshot oral presentation. 14th Annual Academic Surgical Congress, Houston, TX. February 2019.

59. Kassam HA, Gillis DC, **Tsihlis ND**, Stupp SI, Kibbe MR. Targeted spatiotemporal delivery of peptide amphiphile to the vasculature. Oral presentation. 14th Annual Academic Surgical Congress, Houston, TX. February 2019.

60. Kassam HA, Gillis DC, Moyer TJ, **Tsihlis ND**, Stupp SI, Kibbe MR. Systemic delivery of a novel fractalkine-binding peptide amphiphile nanofiber to target injured vasculature. Oral presentation. American College of Surgeons Clinical Congress, Boston, MA. October 2018.

61. Peters EB, **Tsihlis ND**, Karver MR, Stupp SI, Kibbe MR. Atheroma niche-responsive nanocarriers for immunotherapeutic delivery. Poster presentation. Gordon Research Conference: Drug Carriers in Medicine and Biology, West Dover, VT. August 2018.

62. He W, **Tsihlis ND**, Kibbe MR. A revolutionary therapy for atherosclerosis: liquid cast arterial stents. Poster presentation. 10th Triangle Soft Matter Workshop, Raleigh, NC. May 2018.

63. Peters EB, **Tsihlis ND**, Karver MR, Stupp SI, Kibbe MR. Peptide amphiphile nanocarriers for immunotherapeutic delivery to the atherosclerotic niche. Poster presentation. 10th Triangle Soft Matter Workshop, Raleigh, NC. May 2018.

64. **Tsihlis ND***, Freischlag KW, Kibbe MR. Nitric oxide induces ubiquitination of UbcH10 by increasing the activity of the anaphase-promoting complex. Oral presentation. 9th Annual Academic Surgical Congress, San Diego, CA. February 2014.

65. **Tsihlis ND***, Freischlag KW, Kibbe MR. Nitric oxide prevents adventitial fibroblast proliferation by preventing UbcH10-mediated degradation of cyclin A. Oral presentation. 8th Annual Academic Surgical Congress, New Orleans, LA. February 2013.

66. **Tsihlis ND***, Fu B, Kibbe MR. Nitric oxide prevents vascular smooth muscle cell proliferation by preventing UbcH10-mediated degradation of cyclin A and cyclin B. Oral presentation. 7th Annual Academic Surgical Congress, Las Vegas, NV. February 2012.

67. **Tsihlis ND***, Oustwani CS, Vavra AK, Jiang Q, Kibbe MR. Nitric oxide decreases the expression and activity of the ubiquitin-conjugating enzyme UbcH10. Poster presentation. Lewis Landsberg Research Day, Chicago, IL. April 2011.

68. **Tsihlis ND***, Vavra AK, Oustwani CS, Martinez J, Kibbe MR. Ubiquitination of the ubiquitin-conjugating enzyme UbcH10: *in vivo* characterization following arterial injury. Quickshot oral presentation. 6th Annual Academic Surgical Congress, Huntington Beach, CA. February 2011.

69. Oustwani CS, **Tsihlis ND***, Vavra AK, Moreira ES, Jiang Q, Martinez J, Kibbe MR. Nitric oxide increases lysine 48-linked ubiquitination of cellular proteins. Oral presentation. 6th Annual Academic Surgical Congress, Huntington Beach, CA. February 2011.

70. Havelka GE, Vavra AK, Hogg ME, **Tsihlis ND**, Jiang Q, Fu B, Martinez J, Kibbe MR. Characterizing adventitial $Sca1^+$ stem cells: their role in the vasculature. Oral presentation. 6th Annual Academic Surgical Congress, Huntington Beach, CA. February 2011.

71. **Tsihlis ND***, Oustwani CS, Vavra AK, Jiang Q, Kibbe MR. Nitric oxide decreases the expression and activity of the ubiquitin-conjugating enzyme UbcH10. Poster presentation. Ubiquitin Drug Discovery and Diagnostics Conference, Philadelphia, PA. August 2010.

72. **Tsihlis ND***, Vavra AK, Martinez J, Fu B, Jiang Q, Kibbe MR. Nitric oxide decreases the expression of the 11S proteasome activator *in vivo*. Poster presentation. Society for Vascular Surgery Annual Meeting, Boston, MA. June 2010.

73. **Tsihlis ND***, Vavra AK, Martinez J, Fu B, Jiang Q, Kibbe MR. Nitric oxide decreases the expression of the 11S proteasome activator *in vivo*. Poster presentation. Arteriosclerosis, Thrombosis, Vascular Biology Council Meeting of the American Heart Association, San Francisco, CA. April 2010.

74. **Tsihlis ND***, Oustwani CS, Vavra AK, Jiang Q, Kibbe MR. Nitric oxide increases breakdown of the ubiquitin-conjugating enzyme UbcH10 *in vivo*. Oral presentation. 5th Annual Academic Surgical Congress, San Antonio, TX. February 2010.

75. **Tsihlis ND***, Oustwani CS, Jiang Q, Kibbe MR. Nitric oxide decreases the expression and activity of the ubiquitin-conjugating enzyme UbcH10. Poster presentation. Lewis Landsberg Research Day, Chicago, IL. April 2009.

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77. **Tsihlis ND***, Oustwani CS, Jiang Q, Kibbe MR. Nitric oxide decreases the expression and activity of the ubiquitin-conjugating enzyme UbcH10. Poster presentation. Arteriosclerosis, Thrombosis, Vascular Biology Council Meeting of the American Heart Association, Washington, D.C. April 2009.
78. **Tsihlis ND***, Oustwani CS, Banerjee MN, Jiang Q, Kibbe MR. Nitric oxide regulates the ubiquitin-conjugating enzymes crucial for cell cycle progression. Quickshot oral presentation. 4th Annual Academic Surgical Congress, Fort Myers, FL. February 2009.
79. **Tsihlis ND***, Murar J, Flannery WD, Kapadia MR, Ahanchi SS, Martinez J, Jiang Q, Popowich DA, Saavedra JE, Keefer LK, Kibbe MR. The diazeniumdiolate IPA/NO moderates neointimal hyperplasia following vascular interventions via a mechanism distinct from nitric oxide. Poster presentation. Argonne Postdoctoral Symposium, Argonne, IL. September 2008.
80. **Tsihlis ND***, Murar J, Flannery WD, Kapadia MR, Ahanchi SS, Martinez J, Jiang Q, Popowich DA, Saavedra JE, Keefer LK, Kibbe MR. The diazeniumdiolate IPA/NO moderates neointimal hyperplasia following vascular interventions via a mechanism distinct from nitric oxide. Poster presentation. Lewis Landsberg Research Day, Chicago, IL. April 2008.
81. **Tsihlis ND***, Murar J, Flannery WD, Kapadia MR, Ahanchi SS, Martinez J, Jiang Q, Popowich DA, Saavedra JE, Keefer LK, Kibbe MR. The diazeniumdiolate IPA/NO moderates neointimal hyperplasia following vascular interventions via a mechanism distinct from nitric oxide. Quickshot oral presentation. 3rd Annual Academic Surgical Congress, Huntington Beach, CA. February 2008.
82. Kapadia MR, Chow LW, Ahanchi SS, Eng J, Murar J, Martinez J, **Tsihlis ND**, Popowich DA, Jiang Q, Hulvat JF, Stupp SI, Hrabie JA, Saavedra JE, Keefer LK, Kibbe MR. Nanotechnology and nitric oxide: A novel approach to inhibit neointimal hyperplasia. Society for Vascular Surgery Annual Meeting, Baltimore, MD. June 7, 2007.
83. Ahanchi SS, Pearce CG, Kapadia MR, **Tsihlis ND**, Jiang Q, Martinez J, Saavedra JE, Keefer LK, Kibbe MR. Heightened efficacy of nitric oxide-based vascular therapies in diabetes and metabolic syndrome. Rochester Vascular 2007 Meeting, Rochester, NY. May 2007.
84. Ahanchi SS, Pearce CG, Kapadia MR, **Tsihlis ND**, Jiang Q, Martinez J, Saavedra JE, Keefer LK, Kibbe MR. Heightened efficacy of nitric oxide in diabetes and metabolic syndrome following arterial injury. 31st Annual Meeting of the Association of VA Surgeons, Little Rock, AR. May 2007.
85. **Tsihlis ND***, Saavedra JE, Keefer LK, Jiang Q, Kibbe MR. Anti-proliferative properties of IPA/NO: a novel use of an HNO-eluting compound. Poster presentation. *FASEBJ* (2007), 21 (6), p. A1129. Washington, D.C. April 2007.
86. **Tsihlis ND***, Saavedra JE, Keefer LK, Jiang Q, Kibbe MR. Anti-proliferative properties of IPA/NO: a novel use of an HNO-eluting compound. Poster presentation. Lewis Landsberg Research Day, Chicago, IL. March 2007.
87. **Tsihlis ND*** and Grove A. Effects of protein-induced bending of promoter DNA on transcription by *Saccharomyces cerevisiae* RNA polymerase III. Poster presentation. *FASEBJ* (2006), 20 (5), p. A944. San Francisco, CA. April 2006.
88. **Tsihlis ND*** and Grove A. Investigation of sequence specificity of the TATA-binding protein mutant TBPm3 via iterative *in vitro* selection. Poster presentation. *FASEBJ* (2004), 18 (8), p. C200. Boston, MA. June 2004.
89. **Tsihlis ND*** and Grove A. Comparison of kinetic parameters of TATA-binding protein and the altered specificity mutant TBPm3. Poster presentation. *FASEBJ* (2002), 16 (4), p. A531. New Orleans, LA. March 2002.

* Abstract presented.
Underlined authors indicate trainees.

XVI. TECHNOLOGY TRANSFER ACTIVITY

1. Stupp SI, Kibbe MR, Karver MR, Peters EB, So M, Mansukhani NA, Albaghdadi M, **Tsihlis ND.** Drug delivery vehicles for atherosclerosis nanomedicine. US Patent # 12214076. Published February 4, 2025.
2. Kibbe MR, Marulanda KM, Mercel A, **Tsihlis ND**, Wyatt TG. Nanomaterials for targeted treatment of pulmonary tissue. International Application PCT/US21/16052. Filed: February 1, 2021.
3. Kibbe MR, Ledford BT, **Tsihlis ND**. Nanomaterials for targeted treatment and imaging of aneurysmal microenvironment. International Application PCT/US21/15776. Filed: January 29, 2021.

XVII. INVITED LECTURES AND SYMPOSIUMS

1. **Tsihlis ND.** Self-assembled nanoscale materials to target disease. Department of Biomedical Engineering Seminar Series, University of Virginia, April 2023.
2. **Tsihlis ND.** Nanoscale materials to target disease. Department of Biochemistry and Molecular Genetics Fall 2022 Colloquium, University of Virginia, October 2022.
3. **Tsihlis ND.** Nitric oxide prevents cellular proliferation by preventing degradation of cyclin A & B. American Heart Association quarterly meeting, Chicago, IL, March 2013.
4. **Tsihlis ND.** Investigation of protein-DNA contacts in the *Saccharomyces cerevisiae* RNA polymerase III recruitment factor (TFIIIB) complex and effects of promoter topology on transcription. Northwestern University, Chicago, IL, May 2006.

XVIII. COMMUNITY

2026	UVA Resident Research Day, Abstract Scorer, Discussant
2026	Virginia State Science and Engineering Fair, Judge
2025	UVA Sustainability Office, Corner Cleanup (September)
2025	UVA Resident Research Day, Poster Judge
2025	UVA Graduate Biosciences Society Symposium, Poster Judge
2024	UVA Sustainability Office, Corner Cleanup (November)
2024	UVA Resident Research Day, Poster Judge
2024	UVA Graduate Biosciences Society Symposium, Poster Judge
2023	UVA Sustainability Office, Corner Cleanup (February, September)
2023	UVA Resident Research Day, Poster Judge
2023	UVA Graduate Biosciences Society Symposium, Poster Judge
2020	UNC-CH John B. Graham Research Foundation Day, Poster Judge
2017 – 2019	North Carolina Region 5 Science and Engineering Fair, Judge
2014	Illinois Junior Academy of Science State Science Fair, Judge
2014 – 2016	Illinois Junior Academy of Science Region 6 Science Fair, Judge
2011 – 2016	American Heart Association You're the Cure Advocate, Heart Walk Volunteer