

Curriculum Vitae

Timothy Michael Moore MD, PhD

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Harrison College of Pharmacy (HCOP)
Auburn University, Alabama 36849
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Current Position: Associate Dean for Research and Graduate Programs

Past Positions: Interim Dean (HCOP)

Associate Dean for Research (HCOP)

Department Head, Drug Discovery, and Development (HCOP)

Medical Officer and Chief, Lung Biology and Diseases Branch
(NIH/NHLBI)

Director, NIH/NHLBI Science Moving Towards Research Translation and
Therapy Program (SMARTT)

Citizenship: USA

Marital Status: Married (32 yrs.)
LaDonna L. Moore, RPh (B.S. in Pharmacy Auburn University, 1991)
Currently staff pharmacist at Spencer Cancer Center, Opelika

Children: Abigail F. Moore (28yo) B.A, M.B.A (James Madison Univ.)
Austin M. Moore (26yo) B.S. (Auburn Univ.) (current P4 PharmD/PhD
Student)
Ashley C. Moore (26yo) B.S. x 2 (Auburn Univ.)

Education:

1987-1991 B.S. Auburn University (Auburn, AL)
1991-1996 Ph.D. Univ. South Alabama College of Medicine (Mobile, AL)
1998-2002 M.D. Univ. South Alabama College of Medicine (Mobile, AL)

Training:

1996-1999 Univ. South Alabama College of Medicine Post-doctoral (Pharmacology)
2001-2002 Univ. South Alabama College of Medicine Post-doctoral (Physiology)
2002-2003 Univ. Maryland Mercy Medical Center (Baltimore, MD) Intern (Medicine)
2003-2006 Johns Hopkins Medical Institutions (Baltimore, MD) Clinical Resident/Research Fellow

Awards and Honors:

2023 International Leadership Award (All India Society for Advancement of Education & Research)
2022 Rho Chi Pharmacy Honor Society
2019 W.W. Walker Professor Harrison College of Pharmacy
2017 Academic Leadership Fellow (American Association of Colleges of Pharmacy)
2016 Pulmonary Circulation Leadership Award (American Thoracic Society)
2015 The NIH Director's Award (NHLBI Sickle Cell Disease Team Member; STePS)
2015 Quality Award for Level 5 Performance
2014 NIH Senior Executive Leadership Program
2014 NHLBI Group Award (R56 Team Award)
2014 Quality Award for Level 5 Performance
2013 NHLBI MERIT Award (PRIDE Diversity Team Award)
2013 Keynote Speaker Gulf Coast Physiology Society Meeting
2013 Quality Award for Level 5 Performance
2012 NHLBI MERIT Award (SMARTT Program Team Award)
2012 Quality Award for Level 5 Performance
2011 NHLBI MERIT Award (Lung Vascular Portfolio Individual Award)
2011 Quality Award for Level 5 Performance
2010 NHLBI STAR Award
2010 Quality Award for Level 5 Performance
2002 Charles W. Urschel Award in Physiology, USA College of Medicine
2002 Alpha Omega Alpha Medical Honor Society

D NIH CAREER

NIH/NHLBI

Medical Officer 602 GS15: 2009-2016; Chief of Lung Branch (LBDB): 2011-2016

Trans-NIH/NHLBI Accomplishments and Activities

Science Moving Towards Research Translation and Therapy (SMARTT)

- Overall Director of trans-NHLBI program (appointed 2014)
- Responsible for obtaining (competitive process) and administering \$54 million program
- Led multidisciplinary team that supported IND-enabling preclinical work
- Served as the technical expert for evaluating proposed Pharm/Tox projects

Vascular Interventions/Innovations and Therapeutic Advances ([VITA](#))

- Secondary translational program to advance diagnostics and therapies specifically for vascular diseases
- Led the lung program design and implementation (trans-NHLBI program)
- Served as Contracting Officer's Representative (COR) for all pulmonary hypertension projects

Reviewer for NHLBI research contracts (several)

- e.g. The Metabolomics Standard Synthesis Facility Trans-NIH

Lymphatic Research Working Group

- Helped develop trans-NIH initiatives for NHLBI interests
- [PAR-12-259](#) and [PAR-12-260](#)

SBIR/STTR Topic Review Advisory Committee (TRAC)

- Charter member and DLD representative for trans-NHLBI committee
- Assisted staff in identifying, assessing, and developing SBIR/STTR ideas for commercial development for both the extramural and intramural portfolios
- Worked closely with NHLBI Office of Translational Alliances and Coordination ([OTAC](#))

NHLBI Innovation Conference Review Committee

- Selected outstanding SBIR projects with OTAC and met with venture capitalists to invest in pre- and post-IND research

NHLBI Challenges Working Group

- Worked within trans-NIH group to implement best practices for using NIH Challenges mechanism for supporting research

NHLBI R56 Policy Development Group

- Wrote policy for trans-NHLBI group to adopt the NIH-R56 grant mechanism

NHLBI Biospecimen NHLBI Committee Review Panel ([BCRP](#))

- Served as charter member and DLD representative
- Provided recommendations concerning NHLBI Biorepository collection, acceptance, and retention to ensure that only high quality biospecimens are collected, maintained, and distributed.

NHLBI Translational Research Coordination Working Group (TRC-WG)

- Served as charter member and DLD representative
- Provided analysis and input to the Institute's Director to set strategic visioning for NHLBI investment in T1-T2 translational research
- Evaluated institute-initiated and investigator-initiated translational research

NHLBI Trans-Institute Working Group for Sickle Cell Disease Domestic Program

- Developed an implementation (T4) research program to improve outcomes for the adult, U.S. sickle cell disease population
- Received the NIH Director's Award (2015) for this innovative programming

NHLBI Clinical Research Oversight

Served as NHLBI Executive Secretary (data and patient safety monitoring) for:

- Genomic Research in AAT-Deficiency and Sarcoidosis study ([GRADS](#)) OSMB
- Prematurity and Respiratory Outcomes Program ([PROP](#)) OSMB

Accomplishments: as Lung Cell/Vascular Diseases Program Director

Workshops Organized:

- Solid Organ Transplantation in Older Adults (with NIA; January 23-24, 2012)
- Improving Outcomes for Pulmonary Vascular Disease (August 11-12, 2011)
- PE and CTEPH Research (July 28-29, 2011)
- Strategic Plan for Lung Vascular Research Workshop (April 9-10, 2010)

Publications (peer-reviewed; these are separate from those included in my Academic Career):

1. Strategic plan for lung vascular research: An NHLBI-ORDR Report. Erzurum S, Rounds SI, Stevens T, Aldred M, Aliotta J, Archer SL, Asosingh K, Balaban R, Bauer N, Bhattacharya J, Bogaard H, Choudhary G, Dorn GW 2nd, Dweik R, Fagan K, Fallon M, Finkel T, Geraci M, Gladwin MT, Hassoun PM, Humbert M, Kaminski N, Kawut SM, Loscalzo J, McDonald D, McMurtry IF, Newman J, Nicolls M, Rabinovitch M, Shizuru J, Oka M, Polgar P, Rodman D, Schumacker P, Stenmark K, Tuder R, Voelkel N, Sullivan E, Weinshilboum R, Yoder MC, Zhao Y, Gail D, and **Moore TM**. *Am J Respir Crit Care Med*. Dec 15;182(12):1554- 62, 2010.
2. Update from the NHLBI on Lung Vascular and Pulmonary Hypertension Research. **Moore TM**, Gail DB, and Kiley JP. *Adv in Pulmonary Hypertension* 9(3): 153-155, 2010
3. Improving Outcomes for Pulmonary Vascular Disease Robbins, IM, **Moore TM**, Blaisdell, CJ, and Abman, SH. *Am J Respir Crit Care Med*. May 1;185(9):1015-20, 2012 Co-published in *Circulation* 125(17):2165-2170, 2012.
4. Update from the NHLBI: Lung Vascular and Pulmonary Hypertension Research. **Moore TM**, Gail DB, Kiley JP. *Advances in Pulmonary Hypertension* 11(3): 119-120, 2012.
5. Solid-organ transplantation in older adults: status and future research. M. Abecassis M, Bridges ND, Clancy CJ, Dew MA, Eldadah B, Englesbe MJ, Flessner MF, Frank JC, Friedewald J, Gill J, Gries C, Halter JB, Hartmann EL, Hazzard WR, Horne FM, Hosenpud J, Jacobson P, Kasiske BL, Lake J, Loomba R, Malani PN, **Moore TM**, Murray A, Nguyen M-H, Powe NR, Reese, PP, Reynolds H, Samaniego MD, Schmader KE, Segev DL, Shah AS, Singer LG, Sosa JA, Stewart ZA, Tan JC, Williams WW, Zaas DW, High KP. *Am. J. Transplantation* 12(10):2608-2622, 2012.

Designated official representative of NHLBI while Program Director (selected activities):

Pulmonary Hypertension Association (PHA) – Speaker, 9th International Scientific Sessions (Garden Grove, CA), 2010

Pulmonary Circulation Assembly – Speaker, American Thoracic Society Meeting (Denver, CO), 2011

Report from the Lung Vascular SCCORs – Organizer and Chair, ATS (Denver, CO), 2011

Pulmonary Arterial Hypertension (PAH) Topic Refinement Project (Key Informant and Technical Expert Panel member) Sponsored by AHRQ/ Duke University EPC, 2012

PHA – Speaker, 10th International Scientific Sessions (Orlando, FL), 2012

Pulmonary Vascular Disease and Right Ventricular Dysfunction: Current Concepts and Future Therapies – Panelist Keystone Conference (Monterey, CA), 2012

Programs Funded (through NHLBI competitive peer-review process):

[RFA HL-14-027](#) and [RFA HL-14-030](#)

Title: Redefining Pulmonary Hypertension through Pulmonary Vascular Disease Phenomics: Clinical Centers and Data Coordinating Center (U01)

Source: NHLBI (Institute-initiated initiatives for extramural funding programs)

Role: NHLBI Scientific Director

Dates: 2014-2019

Total Funds: \$24,000,000.00

This program, called “PVDOMICS” represented the potentially, most transformational of programs designed to advance our pulmonary vascular disease (PVD) research vision. Explicitly stated, this program was launched to “provide an opportunity to re-define PH;” an audacious goal. The features of this program included blending clinical and molecular characterizations, developing a systematic approach in a tightly collaborative manner, fostering public-private partnerships, and tying it closely with the highest of priorities for the mission of the NHLBI overall. Again, it was recognized that this was not a “quick-fix” to a challenge but a very important and highly visible step towards integrating and translating our research efforts in PVD/PH to more meaningful clinical practices, including such things as: a) identifying subsets of PH patients that are similar with regard to the molecular basis of pulmonary vascular disease regardless of WHO clinical classification; b) defining novel, clinically-relevant indices of therapeutic responsiveness to be useful as intermediate outcomes in clinical trials; and c) identifying biomarkers of disease risk and progression that can be used for early detection or as outcome measures in prevention trials. A sentinel study from the PVDOMICS Study Group produced novel clinical observations derived from an innovative clinical study protocol and generated a rich data set that will allow refinement of the current clinical PVD classification. (Moore - non-author role due to serving as NIH/NHLBI Project Scientist leading the PVDOMICS Steering Committee through 2016 until departing NIH for Auburn University)

Hemnes AR, Leopold JA, Radeva MK, et al. (2022). Clinical Characteristics and Transplant Free Survival Across the Spectrum of Pulmonary Vascular Disease. *J Am Coll Cardiol.* 80:697-718.

Wilkins MR. Pulmonary Hypertension: Dissecting a Complex Phenotype (2022). *J Am Coll Cardiol.* 80:719-72. Editorial comment on the positive impact of the PVDOMICS study.

[RFA-HL-12-021](#)

Title: Pulmonary Vascular-Right Ventricular Axis Research Program (R01 consortium)

Source: NHLBI (Institute-initiated initiatives for extramural funding programs)

Role: NHLBI Scientific Director

Dates: 2012-2017

Total Funds: \$20,250,000.00

This was a targeted use of resources directed towards better understanding a critical issue impeding progress towards our vision of “elimination of suffering from devastating pulmonary disease.” The key here was to provide the right program mechanism that made

sure to reinforce the thinking about the problem in terms of the “PV-RV axis,” bring together new collaborative opportunities but maintain a broad range of approaches to the problem (i.e., the R01 mechanism), and require multidisciplinary and innovation.

[RFA-HL-11-032](#)

Title: Utilization of a Human Lung Tissue Resource for Vascular Research (R03)

Source: NHLBI (Institute-initiated initiatives for extramural funding programs)

Role: NHLBI Scientific Director

Dates: 2011-2014

Total Funds: \$3,000,000.00

This was considered an immediate opportunity investment (at the time) and required formalizing a public-private partnership to use a readily available resource to catalyze new knowledge acquisition that would inform other opportunities to advance the PVD research vision.

Activities/Accomplishments: as Chief Medical Officer for LBDB:

Responsible for 1/2 of the DLD extramural lung research portfolio

- Scientific areas included (basic, translational, and clinical sciences)
 - o AIDS/Tuberculosis
 - o Critical Care/Acute Lung Injury
 - o Developmental Biology and Pediatric Lung Disease
 - o Immunologic Diseases and Pulmonary Fibrosis
 - o Lung Transplantation
 - o Rare Lung Diseases
 - o Lung Cell/Vascular Biology (including right ventricular disease)
 - o Pulmonary Hypertension (PAH and in the setting of COPD/IPF)

Supervised 10 full-time Staff

- o Medical Officers (MDs and MD/PhDs) – 4
- o Health Science Administrators (PhDs) – 3
- o Clinical Trial Specialists – 1
- o Support Staff – 2

Workshops organized:

- The Primary Prevention of Chronic Lung Diseases (Sept. 19-20, 2013)
- Trans-NIH Workshop: "Small Blood Vessels: Big Health Problems?" (Sept. 18-19, 2014)
- Extracellular Matrix in Lung Health and Disease (Sept. 17-18, 2014)
- Precision Therapeutics Delivery for Lung Diseases: (Sept. 25-26, 2014)

Initiatives Funded (through NHLBI internal, competitive peer-review process; supervising or co-author):

[RFA HL-14-001](#)

Title: Centers for Advanced Diagnostics and Experimental Therapeutics in Lung Diseases Stage II (UH2/UH3)

Source: NHLBI (Institute-initiated initiatives for extramural funding programs)

Role: Co-author/LBDB projects supervisor

Dates: 2013-2018

Total Funds: \$75,000,000.00

[RFA-HL-15-024](#)

Title: Definition of Resilience and Presymptomatic Disease in Lung Health and Disease (R01) Source: NHLBI (Institute-initiated initiatives for extramural funding programs)

Role: Co-author/LBDB projects supervisor

Dates: 2015-2018

Total Funds: \$6,000,000.00

[RFA-HL-15-025](#)

Title: Pre-Symptomatic Profiles of Chronic Lung Disease(s) from Retrospective Cohorts (R21)

Source: NHLBI (Institute-initiated initiatives for extramural funding programs)

Role: Co-author/LBDB projects supervisor

Dates: 2015-2017

Total Funds: \$2,640,000

Clinical and Translational Consortia Directed/Supervised (or co-supervised):

[PETAL](#) (Prevention and Early Treatment of Acute Lung Injury Network)

[LRRC](#) (Lung Repair and Regeneration Consortium)

[PROP](#) (Prematurity & Respiratory Outcomes Program)

[LungMAP](#) (Molecular Atlas of Lung Development Program)

[INHALD](#) (Investigating HIV-associated Lung Disease)

[Comparison of Strategies to Study Pediatric Pulmonary Vascular Disease Outcomes Using Bioinformatics](#)

[PVDOMICS](#) (Redefining Pulmonary Hypertension through Pulmonary Vascular Disease Phenomics)

[Pulmonary Trials Cooperative \(PTC\)](#)

Designated representative of NHLBI while Chief Medical Officer (selected):

PHA – Speaker, Corporate Committee Meeting (Silver Spring, MD), 2013

PHA – Stakeholder, NHLBI Director’s Meeting (Bethesda, MD), 2013

Pulmonary Hypertension Breakthrough Initiative (PHBI) – NHLBI Stakeholder
R24 Kick-off Meeting (Detroit, MI), 2014

Pulmonary Hypertension Congressional Luncheon – NHLBI Stakeholder, Kennedy Caucus
Room (Washington, DC), 2014

Stem Cells, Therapies, and Bioengineering in Lung Biology and Lung Diseases – Speaker,
University of Vermont, 2015

Publications (peer-reviewed; not included in Academic Career section below):

The NHLBI SMARTT Program: A Novel Approach to Facilitate Translational Research for Heart, Lung and Blood Diseases. Ebert, RF, Danthi, NS, Charette, MF, Hanspal, M, Mondoro, TH, Noel, PJ, Olive, M, Punturieri, A, and **TM Moore**. *Circ. Res.* 118:1475-1479, 2016

Mentoring:

Lisa Postow, Ph.D. – NHLBI Division of Lung Diseases (DLD) COPD Program Officer (2013)

Michelle Freemer, M.D. – NHLBI DLD Asthma Medical Officer (2014)

Lei Xiao, M.D., Ph.D. – NHLBI DLD Lung Vascular Disease Medical Officer (2015)

Lora Reineck, M.D. – NHLBI DLD Critical Care and Acute Lung Injury Medical Officer (2015)

II ACADEMIC CAREER**Teaching and Full Faculty Appointments (including secondary appointments):**

- 6/96-8/96 Part-time, Temporary Assistant Professor
College of Allied Health, Dept. Biomedical Sciences
University of South Alabama
Mobile, AL
- 1/97-3/97 Part-time, Temporary Assistant Professor
College of Allied Health, Dept. Biomedical Sciences
University of South Alabama
Mobile, AL
- 9/97-12/97 Part-time, Temporary Assistant Professor
College of Arts and Sciences, Dept. of Biology
University of South Alabama
Mobile, AL
- 6/98-9/98 Part-time, Temporary Assistant Professor
College of Arts and Sciences, Dept. of Biology
University of South Alabama
Mobile, AL
- 9/06- 6/09 Assistant Professor (non-tenure track)
Dept. of Internal Medicine
University of South Alabama
Mobile, AL
- 9/07- 6/09 Adjunct Assistant Professor
Dept. of Pharmacology
University of South Alabama
Mobile, AL
- 10/07- 6/09 Full Member
Graduate Faculty
University of South Alabama
Mobile, AL
- 6/09-3/16 *Period of time serving at the NIH/NHLBI*
- 3/16- Professor (Dept. Head with tenure on appointment)
Department of Drug Discovery and Development (DDD)

Auburn University
Auburn, AL
(Workload 50% administrative; 35% teaching 15%; research)

9/16- Full Member
Graduate Faculty
Auburn University
Auburn, AL

Administrative Appointments:

2023- Associate Dean for Research and Graduate Programs
2022-2023 Interim Dean, HCOP
2022- AU-VCOM Institute for Clinical Research Administrative Board of Directors
2019-2022* Associate Dean of Research (AU HCOP)
2016-2019 Department Head, Drug Discovery and Development (AU HCOP)
2008-2009 Director, Center for Lung Biology (CLB)-Pulmonary Division Translational Conferences (USACOM)
2007-2009 Director, CLB-UAB School of Public Health collaborative working group (USACOM)
2007-2009 Director, CLB IRB protocol submission monitoring and development (USACOM)
2006-2009 Director, Critical Care Conference Series at CLB (USACOM)

*Served as both acting DH for DDD and ADR for part of 2019.

Administrative work (selected) as Interim Dean, HCOP (workload = 92% administrative; 8% research)

Hired new Associate Dean for Academic Programs; appointed Interim Assistant Dean, Mobile Instructional Site; appointed Acting Associate Dean, Division of Research.

Re-aligned Division of Academic Programs and Division of Research (DoR) to pull oversight for graduate programs under the more research-intensive administration of DoR (translocated the two-person Office of Graduate Programs into the DoR administrative arm); added an A/P FTE to Academic Programs for recruitment and advising (resources reallocation). Premise: Increase focus on graduate programs mission as it is tightly coupled to our research goals and objectives while reciprocally allowing Academic Programs to address the significant challenges with PharmD student enrollment more effectively; establish an academic-research administrative arm to support development and growth of new research-intensive degree programs.

Re-structured Division of Faculty Affairs to enhance focus on HCOP faculty life cycle support; pulled Director of Strategic Operations and Director of International Programs from Faculty Affairs to Dean's Office; increased FTE for Director of Diversity and Inclusion within Division of Faculty Affairs. Premise: to more tightly couple resources allocation strategies with strategic planning and with engagement in international programs opportunities for the college overseen by the Dean while reciprocally increasing efforts to improve diversity within the HCOP faculty, and improve overall faculty development and support through initiatives and more dedicated administrative oversight

Conducted faculty searches for 6 positions in Pharmacy Practice (4 filled), 2 positions in Drug Discovery and Development, and 2 positions in Health Outcomes Research and Policy (1 filled) as necessary to replace loss of faculty by various reasons.

Fostered approval of new undergraduate degree program – Drug and Biopharmaceutical Sciences BS (ACHE approval obtained Sept. 2023; on track for first enrollment in Fall, 2024)

Administrative work (selected) as ADR (workload = 85% administrative, 10% research; 5% teaching):

Personnel Supervised (direct; after reorganizing division to increase research support):

Vishnu Suppiramaniam (Director of Research Support – new position created and appointed – 2020)

John Folmar (Contracts and Grants Specialist III)

Christopher Smith (reclassified and promoted to Pharmaceutical Sciences Operations Manager – 2019)

Alexis Ramos (reclassified and promoted to Manager, Animal Care Unit – 2020)

Kaylen Anderson (Division of Research Admin. Asst. – new position created and hired – 2019)

Kaleia Williams (Contracts and Grants Specialist III – new position created to oversee post-award mgt – 2020)

Renee' Delaney (COACH Operations Mgr. – new position created and hired to support the HCOP Center for Opioid Research, Education, & Outreach operations)

Created HCOP data analyst and statistics specialist position (hired by Acting ADR in 2023)

Launched new HCOP Research Showcase

Inaugural event in Spring 2022 and featured a new, organized program for undergraduate research in pharmaceutical sciences (helped in the strategic planning for a subsequent BS degree in Pharm. Sciences)

New Policies Designed and Implemented:

Extramural Proposal Submission Policy, Planning and Monitoring (new, 2021): features the design and implementation of a new, web-based portal for faculty researchers to submit proposals and engage with the pre- and post-award grants specialist team; the system is called, “RxWeApply”

Intramural Proposal Submission and Monitoring (new, 2021): companion policy with the extramural policy; also features “RxWeApply,” an internal electronic grant submission and tracking platform

Laboratory Space Allocation and Review Policy (new, 2022): designed to provide balance, consistency, and allow flexibility in the consideration of laboratory space allocation. The policy gives priority for laboratory research space to those faculty with peer-reviewed, investigator-initiated, active external funding containing full indirect cost recovery with key personnel whose salaries are recovered in accordance with effort; created the HCOP Laboratory Space Allocation and Review Committee (LSARC)

Initiatives (various stages of implementation since conceptualized in early 2020; many aspects paused due to COVID epidemic impact and my leave from ADR leadership while I served as Interim Dean):

HCOP FOREVER: FOster Research through Enhanced Visibility, Education, & Recruitment

Visibility – implementing publicity, marketing, and showcase events to advance the knowledge and impact of HCOP research activities

- Improving social and professional networking (Facebook, Twitter, Linked In, YouTube)
- Keeping an up-to-date web presence (site within AUHCOP domain) & targeted advertising
- Hosting (co-hosting) annual and biennial research-centric events (e.g., HCOP faculty/student showcase, CNSi retreat)

Education – providing novel, research-focused degree pathways within HCOP (robust, leading-edge

career opportunities)

Facilitate academic conditions to enhance undergraduate opportunities in pharmaceutical sciences; work to re-design an innovative PharmD/PhD program that allows increased enrollment, efficiency of effort in the required curriculum with adequate resources provision, properly incentivized, and is competitive against peer institutions

Recruitment – recruiting, training, and maintaining relationships with the best and brightest students that engage in research in their pursuit of HCOP degrees

- launching HCOP teams (recruitment into all HCOP degree programs) to cover southeastern recruiting events
- attracting early decision students by integrating research activities into pharmacy camp
- Hosting biennial targeted recruitment fairs

PACERS: Program to Augment Competitiveness for Extramural Research Support

- *FREE Lunch: Faculty Research Enhancement Exercises – lunchtime topics
- *JUMPSTART: Seed funding for pilot efforts – annual call; strategic organization of matching funds for other intramural grants and CCTS opportunities
- *PYDI Courses and Coordination: a) Grant Writing (for MS/PhD students); b) PharmD research elective; c) undergraduate research elective (including strategic participation in URFP)
- *Faculty Grant Writing Workshops (twice per year; one overlaid with PYDI 7000 and another, short version planned for spring offerings)
- * Works in Progress Group(s)

* Denotes these activities delegated to oversight by the HCOP Director of Research Support

USA College of Medicine Committees:

2008-2009	Dean’s Translational Research Task Force
2001-2002	Univ. South Alabama COM Admissions Committee
1995-1996	Univ. South Alabama Basic Medical Sciences Admissions Committee

AU College of Pharmacy (HCOP) Committees:

2022	HCOP Laboratory Space Allocation and Review Committee (LSARC; Chair)
2022	Pathways Post-doc to Faculty Diversity Program (Pharmaceutical Sciences Chair)
2022	Drug Discovery & Development Faculty Development, Retention, and Planning Committee
2021&2022	Data Analytics Specialist Search Committee (Chair)
2020&2022	HORP Faculty Search Committee
2019-2020	Drug Discovery & Development Department Head Search Committee (Chair)
2019-	HCOP Strategic Planning and Assessment Committee
2018-	HCOP Risk Management Team
2018-	HCOP Honor Board (alternate)
2016-	HCOP Executive Committee
2016-2018	Professional Education Steering Committee (PEC)
2016-2017	HCOP Space and Facilities Committee
2016-2018	Practice Ready Curriculum Team (PRCT)

University and/or Health System Committees (CCTS, AU HCOP or USA COM):

2023	Creative Research & Scholarship Awards Committee
2023	AU Budget Space Management & Repair and Renovation Committee
2022-	CCTS Training Academy Steering Committee (Auburn University representative)
2021-	Chambers County Health and Wellness Initiative (steering committee; subsumed OnMed)
2020-2021	Auburn Outreach Project: OnMed®
2020-	AU/CCTS Telehealth Working Group
2020-	Center for Neurosciences Initiative Biennial Retreat Steering Committee
2020	AU/Tuskegee University Collaboration on Health Disparities
2020	AU Internal Grants Program Restructuring Working Group (STEM)
2020	Hudson Alpha/EAMC/AU/ARTF Genetic Screening Project
2020	McCrary Institute Leaders on the Plains Program (re: Deputy Director Bowditch HCOP visit)
2019-	HCOP Clinical Services Advisory Committee (ad hoc member)
2018-2019	Health Sciences Research Initiative Steering Committee (Auburn University)
2008-2009	IRB Vice-Chair (Univ. South Alabama COM)
2008-2009	Faculty Senate (Univ. South Alabama)
2007-2009	Institutional Review Board (IRB) (Univ. South Alabama COM)

Research Grants, Contracts, or Awards:

Active:

Title: Center for Clinical and Translational Science

Source: NIH/NCATS (Primary Awardee – UAB – 5UL1TR003096-04)

Role: Co-Investigator (Lead – Auburn Pharmacy; 8% effort)

Dates: 2019-2024

Total Funds: \$949,480.00 (Auburn Subaward 000520679-SC002; \$143,500 to Pharmacy)

Title: 5HT3 receptors and blood-brain barrier dysfunction in ADRD

Source: NIH/NINDS

Role: Consultant for endothelial studies (PI – Amal Kaddoumi)

Dates: 2023-2025

Total Funds: \$398,114

Title: Developing a Bachelor of Science Degree Program in “Drug and Biopharmaceutical Sciences”

Source: Provost Mission Enhancement Funds (MEF)

Role: Executive Sponsor (PIs – Murali Dhanasekaran, Jack Deruiter, Randall Clark)

Dates: 2021-2024

Total Funds: \$318,500.00

Title: Translational Drug Discovery & Development: Accelerating the Clinical Pathway to Novel Cancer Therapies

Source: Provost Mission Enhancement Funds (MEF)

Role: Executive Sponsor (PI – Rusty Arnold)

Dates: 2021-2024
Total Funds: \$390,000.00

Title: Advancing the PRBV to AAALAC accreditation and establishing an animal models GTA
Source: Provost Mission Enhancement Funds (MEF)
Role: Executive Sponsor and PI
Dates: 2020-2023
Total Funds: \$78,000.00

Pending:

Title: K12 DA053528-0 “Mentored Clinical Scientist Development in Substance Use and Substance Use Disorders to Address Disparities and Unmet Need in the Rural Southeastern U.S.”
Source: NIH/NIDA
Role: Co-PI
Dates: 4/2021 – 3/2026
Total Funds: \$2,491,263 (Status: reviewed; A0 unfunded; A1 under consideration for resubmission)

Completed:

Title: Integrating epidemiology, genomics and epigenomics of schizophrenia and other mental disorders to explore gene-environment interactions in socio-economically disadvantaged communities
Source: Auburn IGP
Role: MPI (Co-PI – Mitra, Jackson, Qian)
Dates: 2019-2021
Total Funds: \$50,000.00

Title: Establishment of a center for neurosciences (CNS)
Source: Auburn University Presidential Awards in Interdisciplinary Research
Role: MPI and Administrative Director (Co-PI – Suppiramaniam and Reed)
Dates: 2018-2021
Total Funds: \$637,500.00

Title: Soluble CD40 Ligand Increases Pulmonary Microvascular Permeability.
Source: Parker B. Francis Foundation
Role: PI
Dates: 2007-2010
Total Funds: \$144,000.00 (salary support)

Title: Soluble CD40 Ligand Increases Pulmonary Microvascular Permeability.
Source: American Heart Association Beginning Grant-in-Aid
Role: PI
Dates: 2007-2009
Total Funds: \$110,000.00 (direct + indirect for project support)

Title: T-Lymphocyte involvement in lung ischemia-reperfusion injury.
Source: NIH/NHLBI R01 HL/AI67461-01
Role: Postdoctoral (25% effort); PI = A.E. Taylor
Dates: 2001-2005
Total Funds: \$800,000.00

Title: Regulation of Pulmonary Microvascular Endothelial Function by $\alpha\text{v}\beta\text{3}$ Integrins: Roles of Calcium and cAMP.

Source: American Heart Association Southern Research Consortium

Role: Fellow

Dates: 7/01/1997-6/30/1999

Total Funds: \$45,000.00

PROFESSIONAL ACTIVITIES

Past and Present Memberships in Professional Societies:

2022- American Society of Health-System Pharmacists
2022- Alabama Pharmacy Association
2016- American Association of Colleges of Pharmacy (AACCP)
2010- American Thoracic Society (ATS)
2010-2019 American Heart Association (AHA)
2007 American Society for Pharmacology and Experimental Therapeutics (ASPET)
2007 Sigma Xi
2006 AHA Council on Cardiopulmonary, Perioperative & Critical Care
2006 American Federation for Medical Research (AFMR)
2006 American Lung Association

***Editorial Boards:**

2008 American Journal of Physiology: Lung Cellular and Molecular Physiology

***Peer Review (Study Sections, Ad Hoc Grant or Journal Review, Site Visits):**

2020 Special Emphasis Panel RFA-HL-20-007 Advancing Novel Research Models to Study Idiopathic Pulmonary Fibrosis (U01); March 2020
1998-1999 Journal of Clinical Science
1998-1999 Inflammation Research
2006-2009 American Journal Lung Cell and Respiratory Physiology
2007-2008 American Heart Association Peer Review Committee (R2 Lung)
2008-2009 American Journal of Physiology: Heart and Circulatory Physiology

*Unable to serve on boards or review panels while at NIH due to COI policies

USA College of Medicine Teaching Activities:

Graduate Student Education:	2007-2009	Lung Biology (IDL 630)
	2008-2009	Lung Pathobiology (IDL 631)
	2008-2009	Fund Basic Med Science II (IDL 581)
Medical Student Education:	2008-2009	Med Physiology
	2008-2009	Med Neuroscience
	2008-2009	Univ. South Alabama COM Clinical Pharmacology
	2006-2009	Univ. South Alabama COM Medical Pharmacology
	2005-2006	Johns Hopkins Hospital Anesthesiology Preceptor
	1997-1998	Univ. South Alabama COM Pharmacology (GTA)
	1992-1996	Univ. South Alabama COM Physiology (GTA)

AU Harrison College of Pharmacy (HCOP) Teaching Activities:

Undergraduate Education:	2020 -	Undergraduate Research (PYDI 4980)
Graduate Education:	2016-2020	Intro to Grant Writing (DRDD 7000)
	2020	Intro to Grant Writing (DRDD 7000 Course Director)
	2021-	Intro to Drug Disc. & Dev. (DRDD 7380)
	2021-	Pharmacogenomics & Translational Research Meth (DRDD 7400)
PharmD Education:	2016-2019	Pharmacy Practice Experience (PYPD 9100)
		Learning Community 2 (LC2)
	2017-2019	Longitudinal 1
		Integrated Learning Experience 1 (ILE1)
		Integrated Learning Experience 2 (ILE2)
	2018-2019	Integrated Learning Experience 5
		Integrated Learning Experience 6

Mentoring (USACOM and HCOP):

Anjali Kumbha – Medical Student Summer Research Program (2007)
Pavan Kapadia – Undergraduate Research Honors (2007); M. S. Co-advisor (2008-2009)
Branson Maynard – Undergraduate student USA COM (2008)
Anthony Wright, M.D. – Surgical resident USA (2008)
Jeff Baker – CLB SURF student (2008)
Ahmad Almalki – AU HCOP PhD Committee Member (MedChem 2017-2019 graduated)
Lauren Lucas – AU HCOP M.S./PhD Committee Member (Pharmacology 2017-2023 graduated)
Priyanka Pinky – AU HCOP PhD Committee Member (Pharmacology 2018-2020 graduated)
Manoj Govindarajulu M.D. – AU HCOP PhD Committee Member (2018-2020 graduated)
Jared Senfeld – AU HCOP PhD Committee Member (Pharmacology 2019-present)
Sindhu Ramesh, M.D. – AU HCOP M.S./PhD Primary Advisor (2017-2022 graduated)
Aisha Harshan – AU HCOP M.S. Co-advisor (2019 – 2020 graduated)
Mohammed Almaghrabi – AU HCOP PhD Committee Member (2019-2021 graduated)
Sayek Chakravarti – AU HCOP PhD Co-primary advisor (2019- 2022 graduated)
Warren Smith – AU HCOP PharmD/PhD Committee Member (2020-present)
Rishi Nadar – COSAM undergraduate (2020-2022 graduated)
Iva Durdanovic – AU HCOP PhD Primary Advisor (2021-2022); committee member (2022-present)

Nathan Pinner, PharmD – Mentor, CCTS Clinical and Translational Science Training Program (2018)
Angela Calderon, PhD – Mentor, HCOP Female Faculty Leadership Program (2022)

Mentee Awards (primary advisor role)

1) Sindhu Ramesh:
2018 ADDF Young Investigator Scholarship Award, 12th Annual Drug Discovery for Neurodegeneration Conference, February 4-6, 2018 in Washington, DC.
2019 ADDF Young Investigator Scholarship Award, 13th Annual Drug Discovery for Neurodegeneration

Conference, March 17-19, 2019 in Long Beach, CA.

2018 Dean's Travel Award, Harrison School of Pharmacy to attend Experimental Biology Conference

2019 Center for Neurosciences Initiative Graduate Research Fellowship

2019 Outstanding Master's Student Award, Auburn University, AL.

2019 Presidential Graduate Research Fellowship, Auburn University, AL.

2023 Auburn University Outstanding Dissertation Award

2) Sayek Chakrvarti:

2019 Presidential Graduate Research Fellowship

3) Iva Durdanovic:

2021 Presidential Graduate Research Fellowship

Outreach & Community Service (past and present):

2007-2009 Volunteers of America (VOA) Human Rights Committee (Physician Member)

2007-2009 Consultant (non-paid): VOA Southeast Gulf Coast Health Care Clinics

2007-2009 Board of Directors Blast Soccer Club (Fairhope, AL)

2013-2015 Head coach – Western Loudoun Lacrosse (boys U15)

2013-2016 Loudoun Valley Vikings Athletic Association Board of Directors (President)

2019- Valley Baptist Church – Deacon, Sunday school teacher (young adults), Chair, finance committee

Auburn University:

2021- Chambers County Health and Wellness Initiative: Founding member of the project design and leadership team, which is now a collaborative between the AU Office of the VP for Outreach, Colleges of Pharmacy, Nursing, and Human Sciences, AU Cooperative Extension System, Chambers County Commission, and the Lafayette, AL. city government. The CCHWI, now the Auburn University Rural Health Initiative (RHI), brings improved access to healthcare services for underserved Chambers County, AL. as well as provides access to health education services provided by faculty and students from Auburn's health professions colleges.

Role: responsible for the initial evaluations of telehealth technologies to provide in the CCHWI Center (located in Lafayette, AL.) as well as in other locations for project build-up across the state; provided administrative oversight for acquisition of the first OnMed[®] telehealth station; assisted Chambers County grant writers' initial efforts to obtain state support for the Center (funded- ADECA Cares Act CV-NC-20-007; \$412,800); presented project at local community events to bring awareness; liaised with AU HCOP faculty to provide opportunities for their engagement in outreach/research, and continue to serve on the RHI Steering Committee.

2022- Latham and Moore Family Annual Scholarship: Established in 2022 to support a PharmD student hailing from Chambers County and enrolled at HCOP with a financial need

Invited Lectures/Workshops/Presentations (excluding abstract presentations at meetings):

“Future of International Pharmaceutical Research and Pharmacy Education” multiple presentation sites in India in 2023 including 8th Institutional Convocation of Rajasthan University of Health Sciences, Jaipur; JSS University, Mysore; JSS College of Pharmacy, Ooty; Alwar Pharmacy College, Rajasthan; SGT University, Haryana; Pantajali Corporation, Hardiwar

“Auburn University's Health Disparities Research/Outreach Collaborations” Health Connect South 2020, Sept. 2020

“HCOP and Drug Discovery and Development: An Overview” Dept. of Physiology and Cell Biology and the Center for Lung Biology, University of South Alabama, 2017

“Advancing Drug Discovery and Development” USACOM Medical Alumni Association Meeting, Pensacola, FL, 2017

“When human subjects research definitions become blurry: A case study on the Johns Hopkins ICU catheter infections reduction initiative in the State of Michigan” IRB Education Session, University of South Alabama, 2008

“Translational approaches to studying ALI/ARDS. Acute Lung Injury and the Acute Respiratory Distress Syndrome (ALI/ARDS): Therapeutics on the Horizon.” Experimental Biology 2008, San Diego, CA

“sCD40L-CD40 signaling importance in PMVEC” Gordon Research Conference, Biddeford, ME, 2008

“Translational Medicine” Research Honors Forum, USACOM, 2008

“Controversies in PMVEC permeability regulation” Research in Progress Series, Dept. Pharmacology, 2008

“CD40 signaling in endothelium” Cell Signaling Seminar Series, USACOM, 2008

“TRALI” Critical Care Conference, USA COM, 2008

“How to prepare a CV” USACOM Student AMA Meeting, 2007

“Ischemia-reperfusion lung injury: translation from isolated lung permeability measures.” Pulmonary Division Research Conference, Dept. Internal Medicine, USA COM, 2007

“Cell-Derived Microparticles: Bystanders or Mediators?” Research in Progress Series, Dept. Pharmacology, USA COM, 2007

“Soluble CD40 ligand induces co-localization of CD40 with Rab5 in pulmonary microvascular endothelial cells” AFMR, Washington, DC, 2007

“Studies in Acute Lung Injury and ARDS” Center for Lung Biology Special Seminar, Mobile, AL, 2006

“Immunohistochemical identification of CGRP and adenosine A2A intrinsic neurons in hamster cheek pouch” Joint US/UK Microcirculatory Conference, Durham, NH 2005.

“Association between obesity and cancer in the United States.” Mercy Medical Center, Dept. Of Medicine Seminar Series, Baltimore, MD, 2003.

“Involvement of IL-10, MIP-2, and CD40 signaling in lung ischemia-reperfusion injury.”

University of South Alabama COM Physiology Seminar Series, Mobile, AL, 2000

“Calcium influx is not required for thrombin-induced endothelial barrier disruption.” University of South Alabama COM Physiology Seminar Series, Mobile AL 1999.

“Quantitative assessment of solute flux across cultured pulmonary arterial endothelial monolayers: comparison of different stimuli.” University of South Alabama COM Pharmacology Seminar Series, Mobile, AL 1999.

“Pulmonary endothelium and Mardi Gras: *laissez les bon temp roulers!*” University of South Alabama COM Pharmacology Seminar Series, Mobile, AL 1998.

“Respiratory, renal, gastrointestinal, and acid-base physiology.” Masters in Nursing Program Physiology Workshop, Mobile, AL, 1998.

“Pulmonary endothelial calcium regulation: role of *trp* gene products.” University of South Alabama COM Physiology Seminar Series, Mobile, AL 1997.

“Respiratory, renal, gastrointestinal, and acid-base physiology.” Masters in Nursing Program Physiology Workshop, Mobile, AL 1997.

“Mechanisms of ischemia-reperfusion injury in the lung.” AHA/ATS/Pulmonary Circulation Foundation 8th Pulmonary Circulation Conference, Denver, CO, 1996.

“Endothelial damage caused by ischemia and reperfusion and different ventilatory strategies in the lung.” University of South Alabama COM Advanced Respiratory Physiology Course, Mobile, AL, 1996.

“Ischemia and reperfusion injury in lung endothelial barrier.” Subcommittee on Cardiovascular Seminars 69th Scientific Sessions of the AHA, New Orleans, LA, 1996.

“Inflammation and nitric oxide in lung I/R injury.” University of South Alabama COM Pharmacology Seminar Series, Mobile, AL 1996.

“Mechanisms of microvascular damage associated with lung ischemia/reperfusion.” University of South Alabama COM Physiology Seminar Series, Mobile, AL 1996.

“Vascular permeability and epithelial transport effects on lung edema formation in ischemia and reperfusion.” University of South Alabama COM Physiology Seminar Series, Mobile, AL, 1994.

“A synopsis of PMA and ischemia-reperfusion induced lung injury.” University of South Alabama COM Physiology Seminar Series, Mobile, AL 1993.

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Google Scholar: h-index=30; i10-index=45; citations=3049 (9/13/2023)

Original Papers:

- 1) Adkins, W.K., J.W. Barnard, **T. M. Moore**, R.C. Allison, V.R. Prasad, and A.E. Taylor. Adenosine prevents PMA-lung injury via an A₂ receptor mechanism. *J. Appl. Physiol.* 74: 982-988, 1993.
- 2) Barnard, J., P.S. Wilson, **T.M. Moore**, W.J. Thompson, and A.E. Taylor. Effect of nitric oxide and cyclooxygenase products on vascular resistance in dog and rat lungs. *J. Appl. Physiol.* 74: 2940-2948, 1993.
- 3) Khimenko, P.L., J.W. Barnard, **T.M. Moore**, P.S. Wilson, S.T. Ballard, and A.E. Taylor. Vascular permeability and epithelial transport effects on lung edema formation in ischemia and reperfusion. *J. Appl. Physiol.* 77: 1116-1121, 1994.
- 4) P.L. Khimenko, **T.M. Moore**, Hill, L.W., P.S. Wilson, S. Coleman, A. Rizzo, and A.E. Taylor. Adenosine A₂ receptors reverse ischemia- reperfusion lung injury independent of α receptors. *J. Appl. Physiol.* 78: 990-996, 1995.
- 5) Wilson, P.S., P.L. Khimenko, J.W. Barnard, **T.M. Moore**, and A.E. Taylor. Muscarinic agonists and antagonists cause vasodilation in the isolated rat lung. *J. Appl. Physiol.* 78: 1404- 1411, 1995.
- 6) Khimenko, P.L., **T.M. Moore**, and A.E. Taylor. ATP-sensitive K⁺ channels are not involved in ischemia/reperfusion lung endothelial injury. *J. Appl. Physiol.* 79: 554-559, 1995.
- 7) **Moore, T.M.**, P.L. Khimenko, W.K. Adkins, M. Miyasaka, and A.E. Taylor. Adhesion molecules contribute to ischemia and reperfusion injury in the isolated rat lung. *J. Appl. Physiol.* 78: 2245-2252, 1995.
- 8) **Moore, T.M.**, P.L. Khimenko, and A.E. Taylor. Restoration of normal pH triggers ischemia- reperfusion injury in the lung by Na⁺/H⁺ exchange activation. *Am. J. Physiol.* 269: H1501-H1505 (rapid communication), 1995.
- 9) Khimenko, P.L., **T.M. Moore**, and A.E. Taylor. Blocking ET_A receptors prevents ischemia and reperfusion injury in rat lungs. *J. Appl. Physiol.* 80: 203-207, 1996.
- 10) Khimenko, P.L., **T.M. Moore**, and A.E. Taylor. Role of calmodulin and myosin light-chain kinase in lung ischemia/reperfusion injury. *Am. J. Physiol.* 271: L121-L125, 1996.
- 11) Wilson, P.S., P.L. Khimenko, **T.M. Moore**, and A.E. Taylor. Perfusate viscosity and hematocrit determine pulmonary vascular responsiveness to NO synthase inhibitors. *Am. J. Physiol.* 270: H1757-H1765, 1996.
- 12) **Moore, T.M.**, P.S. Wilson, P.L. Khimenko, and A.E. Taylor. The role of nitric oxide in lung ischemia and reperfusion injury. *Am. J. Physiol.* 271: H1970-H1977, 1996.
- 13) Wilson, P.S., W.J. Thompson, **T.M. Moore**, P.L. Khimenko, and A.E. Taylor. Vasoconstriction increases pulmonary nitric oxide synthesis and circulating cyclic GMP. *J. Surg. Res.* 70: 75-83, 1997.

- 14) Kelly, J.J., **T.M. Moore**, P. Babal, A.H. Diwan, T. Stevens, and W.J. Thompson. Pulmonary microvascular and macrovascular endothelial cells: Differential regulation of calcium and permeability. *Am. J. Physiol.* 274: L810-L819, 1998.
- 15) **Moore, T.M.**, G. Brough, J.J. Kelly, P. Babal, M. Li, and T. Stevens. Store-operated calcium entry promotes shape change in pulmonary endothelial cells expressing Trp1. *Am. J. Physiol.* 275: L574-L582, 1998.
- 16) Chetham, P.M., P. Babal, J.P. Bridges, **T.M. Moore**, and T. Stevens. Segmental regulation of pulmonary vascular permeability by store-operated calcium entry. *Am. J. Physiol.* 276: L41- L50, 1999.
- 17) **Moore, T.M.**, N.R. Norwood, J.R. Creighton, P. Babal, G.H. Brough, D.M. Shasby, and T. Stevens. Receptor-dependent activation of store-operated calcium entry increases end permeability. *Am. J. Physiol Lung Cell. Mol. Physiol.* 279(4): L691-L698, 2000.
- 18) Norwood, N., **T.M. Moore**, D.A. Dean, R. Bhattacharjee, M. Li, and T. Stevens. Store- operated calcium entry and increased endothelial cell permeability. *Am. J. Physiol. Lung Cell Mol. Physiol.* 279(5): L815-L824, 2000.
- 19) Wu, S., **T.M. Moore**, G.H. Brough, S.R. Whitt, M. Chinkers, M. Li, and T. Stevens. Cyclic nucleotide-gated channels mediate membrane depolarization following activation of store- operated calcium entry in endothelial cells. *J. Biol. Chem* 275(25): 18887-18896, 2000.
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- 21) **Moore, T.M.**, W.B. Shirah, P.L. Khimenko, P. Paisley, R.N. Lausch, and A.E. Taylor. Involvement of CD40-CD40L signaling in postischemic lung injury. *Am. J. Physiol. Lung Cell. Mol. Physiol.* 283(6): L1255-L1262, 2002.
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- 24) Wu, S., H. Chen, M.F. Alexeyev, J.A.C. King, **T.M. Moore**, T. Stevens, and R. Balczon. Microtubule motors regulate Isoc activation necessary to increase endothelial cell permeability. *J. Biol.Chem.* Nov.30;282(48):34801-8, 2007.
- 25) **Moore, T.M.** Pulmonary microvascular endothelial cells expressing CD40 exhibit increased permeability to sCD40L. *Proc. Am. Thorac. Soc.* Apr 5(3):370, 2008.
- 26) Bhattacharya, D., Majrashi, M., Ramesh, S., Govindarajulu, M., Bloemer, J., Fujihashi, A., Ryan-Crump, B., Hightower, H., Bhattacharya, S., **Moore, T.M.**, Suppiramaniam, V., and Dhanasekaran, M. Assessment of

the cerebellar neurotoxic effects of nicotine in prenatal alcohol exposure in rats. *Life Sci.* 2018 Feb 1;194:177-184, 2018 (doi: 10.1016/j.lfs.2017.12.010. Epub 2017 Dec 7).

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36) Rachel Parise, Sindhu Ramesh, Manoj Govindarajulu, Tony Thomas, **Timothy Moore**, Muralikrishnan Dhanasekaran. COVID-19 induced renal dysfunction differs from other common viruses, *Emergency and Critical Care Medicine*, 2021 <https://journals.lww.com/eccm/pages/currenttoc.aspx>

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45) Manoj Govindarajulu, Sindhu Ramesh, Tharanath Shankar, Muralikrishna Kora, Muralikrishnan Dhanasekaran, **Timothy Moore**. Role of Neddylation in Neurodegenerative Diseases, *Neurosci*, 2022, 3 (4), 533-545

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Book Chapters and Reviews:

1) Taylor, A.E., W.K. Adkins, and **T.M. Moore**. Ischemia reperfusion lung injury: Repair of endothelial damage by adenosine and cAMP. *In: Yearbook of Intensive Care and Emergency Medicine*, J.L. Vincent (Ed.), Berlin, Germany: Springer-Verlag, pp. 12-20, 1993.

2) Taylor, A.E., P. Khimenko, J.W. Barnard, A. Rizzo, and **T. Moore**. Protection and reversal in ischemia-reperfusion tissue injury. *In: Reperfusion Injuries and Clinical Capillary Leak Syndrome*. Zikria, B.A., M.C. Oz, and R.W. Carlson (Eds.), Armonk, NY: Futura Publishing Company Inc., pp. 493-516, 1994.

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4) Taylor, A.E., **T. Moore**, A. Rizzo, and P. Khimenko. Lymphatic safety factor. *In: Interstitium, Connective Tissue, and Lymphatics*. Reed, R.K., G.A. Laine, J.L. Bert, P. Winlove, and N. McHale (Eds.), London, England: Portland Press, pp. 41-50, 1995.

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8) Khimenko, P.L., **T.M. Moore**, and A.E. Taylor. Ischemia reperfusion and lung endothelial damage. *In: The Failure of the Pulmonary Circulation - a Key Role in Acute Lung Injury*. Taylor, A.E. and A. Goetz (Eds.), Basel, Switzerland: Karger, pp. 101 – 110, 1998.

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- 102) Jackson, Caroline A, Sindhu Ramesh, Suhrud Pathak, Manoj Govindarajulu, Tony Thomas, **Timothy Moore**, Muralikrishnan Dhanasekaran, Gastrointestinal Pathologies and Obesity Associated with COVID-19, Boshell Research Day, Marriott Resort Auburn-Opelika Grand National, AL, September 2021.
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