

HERMAN HOLT JR.

Curriculum Vitae

LEADERSHIP POSITIONS AT UNIVERSITY OF NORTH CAROLINA ASHEVILLE:

Chief Research Officer

January 2025 – current

Brief Summary of duties

- Provide strategic leadership in research initiatives with consultation to the provost
- UNC Asheville research liaison to the UNC System Office
- Institutional research compliance oversight
- Oversight of the Office of Sponsored Research – pre-award and post-award
- Work closely with the Grants Manager
- Work closely with Director of Corporate and Foundation Relations (Advancement Office)
- Navigate federal grant landscape and provide guidance to faculty
- Facilitate relationships with Open Doors, Asheville non-profit for school-aged kids
- Networking with Western North Carolina Research officers
- Member, National Council of University Research Administrators (NCURA)

Award activity to note

- Greater than \$6 million in research awards at FY25 end
- US Department of Education – TRIO Student Support Services Award 2025, \$1.35M
- UNC System Office funding award for research equipment \$69K

Special Assistant to the Chancellor/Interim Chief Research Officer

July 2024 – Dec. 2024

Brief Summary of Duties

- Provide strategic leadership and consultation to the chancellor
- Onboard the new provost
- Provide leadership for advanced planning for new building
- Oversight of Office of Sponsored Research
- Provide guidance to the provost regarding research initiatives
- Provide institutional compliance in research

Interim Provost and Vice Chancellor for Academic Affairs

January 2023 – June 2024

Highlights as Interim Provost:

- Managed and approved new facilities and administration (F&A) allocation to allow funds back to PI and department.
- Developed and oversaw UNC Asheville team for American Council on Education Internationalization LAB.
- Office of the Provost support staff enhancements – faculty personnel specialists, Academic Budgeting Director, stabilize Dean contracts and centralize their office space.
- Gift agreement finalization - Creative Writing initiative and MLM Kind Heart Award.
- Begin conversation with external partner regarding endowed gift possibilities.
- Reallocate endowed professorship opportunities for faculty.
- High Impact Practice project awards for faculty to work with students.
- Budget for and hire additional student support specialists.

- Developed Provost Cabinet to focus on institutional initiatives other than personnel related to Academic Affairs and student/faculty/staff success.

Duties, expectations, and reporting:

- Direct report to the Chancellor
- Member of Chancellor's Senior Staff
- Chief Academic Officer representative to the UNC System Office
 - Attend monthly meetings
 - Coordinate System Office initiatives with Office of the Provost and Academic Affairs
 - Promote recommendations for System Office awards with Office of the Chancellor
- UNC Asheville Board of Trustees – Academic Affairs Subcommittee
 - Provide updates to the full Board regarding Academic Affairs initiatives and activities
 - Coordinate with the Trustee that chairs the Academic Affairs subcommittee, i.e. agenda generation, personnel matters and actions, student success opportunities.
- Office of the Provost and Deans – 11 direct reports to the Provost spread over 2023 – including Executive Assistant; Faculty Personnel Administration Director; Special Assistant to the Provost, Deans of Humanities, Natural Sciences, Social Sciences, and Special and Graduate Programs, three Interim Vice Provosts; Director of Academic Budgeting
- Other Direct Reports (current and former) – Chief Research Officer and Office of Sponsored Research; Registrar; University Librarian; Center for Teaching and Learning (CTL); Honors; Study Abroad Director; STEAM Studio; North Carolina Center for Health and Wellness (NCCHW); National Environmental Modeling and Analysis Center (NEMAC); Engineering (Joint with NC State University); Osher Lifelong Learning Institute (OLLI) Director; Global Engagement; Study Abroad Director; Center for Diversity Education; Center for Jewish Studies
- Oversight of over 300 faculty and staff
 - Primary personnel decision maker for Reappointment, Tenure, and Promotion of all tenure-track faculty based on recommendations by Committee of Tenured Faculty
 - Enforce continual review of tenured faculty through post-tenure review process
 - Evaluate staff that report to the Provost
 - Finalize hiring of faculty and manage salary expectations
 - Coordinate closely with Human Resources regarding staff hires
 - Consult w/General Counsel and the Assistant VC, Institutional Integrity and Access
- Oversight of over 30 majors, over 40 minors and other curricular programs
- Manage multi-million dollar budget
 - Request and manage funds aligned with Academic Affairs mission
 - Thought partner with the Chancellor and Chief Financial Officer
 - Work closely with Director of Academic Budgeting and Deans
 - Align funds with each Academic Affairs unit as appropriate as possible
 - Focus on sustainable spending
- Collaborate with Student Affairs
 - Student success initiatives
 - Enrollment management
 - Promote messaging of admitted and committed students by academic departments as an anti-melt approach
 - Advise on challenges of admitted and committed students from a first generation perspective

- Review proposals by institutions for new graduate programs and provide commentary to the System Office
- Coordinate with campus units that are impacted by new graduate program policies
- Emergency Operations Center (EOC) – Lead representative for Academic Affairs
 - Communicate necessary actions to the Provost, Deans, and other members of Academic Affairs as needed
 - Inform the EOC of Academic Affairs perspectives on proposed policies and potential action plans
- Continued working relationship with many units as noted in Natural Sciences Dean role

Dean of Natural Sciences

January 2018 – July 2022

Duties, expectations, and reporting:

- Direct report to the Provost
- Nine direct reports to Dean of Natural Sciences: Departments of Atmospheric Sciences, Biology, Chemistry and Biochemistry, Computer Science, Environmental Studies, Engineering (Joint with North Carolina State University), Mathematics, New Media, and Physics and Astronomy; approximately 80 faculty, 15 staff, and 850-1000 students
- Four direct reports to Dean of Natural Sciences in four distinct university program areas including: Honors (2018-2020), Master of Liberal Arts and Sciences (2018-2021), Neuroscience (minor), and Undergraduate Research Program
- Other direct reports include: Great Smokies Writing Program and Professional Education
- Budget supervision of approximately \$1.5M
- Work closely with the Chief Research Officer and Office of Sponsored Research
 - Explore new opportunities for faculty and the University
 - Support and advise faculty on proposal/grant applications
- Work closely with the Registrar's Office Institutional Research and Academic Success Team
 - Course schedule approval
 - Student advising support
- Work closely with Academic Affairs Director of Academic Budgeting and Finance team
 - Balance budget
 - Explore opportunities to allow for faculty development
- Collaborate with HR and General Counsel to address personnel matters
 - Close coordination regarding policies related to staff and faculty, including FMLA, faculty/staff grievances, and state policies
 - Staff hiring
 - Diversity Advocate initiatives associated with faculty and staff searches
- Faculty Senate, Academic Planning Committee (*ex officio*)
- Emergency Operations Center (EOC) – Lead representative for Academic Affairs
 - Communicate necessary actions to the Provost, Deans, and other members of Academic Affairs as needed
 - Inform the EOC of Academic Affairs perspectives on proposed policies and potential action plans
- General oversight of academic buildings of the Natural Sciences departments
- Collaborate with Dean of North Carolina Eshelman School of Pharmacy in Asheville
 - Explore opportunities for student/faculty engagements
 - Promote UNC Asheville students for pharmacy school

- UNC Asheville representative to City of Asheville Energy Innovation Task Force
 - UNC Asheville representative
 - Attend regular meetings
 - Promote opportunities for collaborations focused on energy innovations
- COPLAC Leadership Circle Fellow
 - Leadership development engagement
- BARC Member (Bulldogs Anti-Racism Council)
 - Academic Affairs representative
 - Attend meetings and contribute as appropriate
- Gardner Institute Equity in Retention Academy Participant (member of UNC Asheville team)
- Director of Pre-Health Professions
 - One direct report to Director: Pre-Health Advisor
 - Lead team of 7 faculty from STEM and Social Sciences to provide advising and manage letter of submissions to professional schools
 - Provide ongoing mentoring and guidance for students interested pre-health professions
 - Establish relationships with first-year students and prior to coming to campus
 - Maintain strong relationship with Mountain Area Health Education Campus (MAHEC)
 - Work with MAHEC to connect rural students to healthcare opportunities
 - Maintain strong relationship with University of North Carolina Eshelman School of Pharmacy in Asheville
 - Manage committee letter writing, review, and recommendation levels

Chair, Department of Chemistry

January 2009 – December 2017

- Served just over two terms as Chair
 - Managed Chemistry Department of 10 full-time faculty, 2 staff, and adjuncts
 - Manage a Budget <\$80K
 - Instrumentation oversight
 - Funding – Grant activity in department generating over \$1.5 million
 - North Carolina GlaxoSmithKline Foundation grant: Mentor Fellows (postdocs) and students
 - Chaired several searches to hire faculty and staff in the department
 - Chaired distinguished speaker lecture series (S. Dexter Squibb Lectures)*
 - 2017: Dr. Dewaine Eubanks (late), Clemson University
 - 2016: Dr. Heather Allen, The Ohio State University
 - 2015: Dr. Dennis Liotta, Emory University
 - 2014: Dr. Bassam Shakhashiri, University of Wisconsin
 - 2013: Dr. Harry Gray, Cal Tech
- * Solicited speakers to attend and present

Faculty Athletics Representative

July 2006 – June 2014

- Direct report to the Chancellor (Chancellor Emerita Anne Ponder)
- Serve the well-being of the student-athlete
- Work collaboratively with the Athletic Director
- Mediate student-athlete and faculty differences
- Gender Equity Ad Hoc Committee Member

- NCAA Re-certification Committee for UNC Asheville
Steering Committee, Vice-Chair 2009-2012;
Academic Integrity sub-committee, Fall/Spring 2002-2003
- Student Athlete Advisory Committee Faculty Advisor 2001-2014
- Intercollegiate Athletic Committee, Chair
- Chair, Big South Conference Faculty Athletics Representatives, 2007-2014
- NCAA Division I Legislative Council Member, 2012-2014
- NCAA Division I Academic Cabinet Member, 2008-2012 (Chair, 2011-2012)
- NCAA Division I Academic Eligibility Compliance Cabinet Member, 2007-2008
- NCAA Division I Academic Cabinet Progress-Towards-Degree Waiver Appeals Subcommittee Member, 2007-2010

Co-Director of Undergraduate Research

July 2007 – June 2009

- Direct Report to Associate Provost
- Campus advocate for research and scholarly activity of faculty and students
- Manage a budget of \$20-25K
- Guide URPAC (Undergraduate Research Program Advisory Council)
- Assisted with the planning of Big South Undergraduate Research Program
- co-Program Chair, Big South Undergraduate Research Symposium 2009
- NCUR Proceedings Editorial Board, *Ex Officio*
- Undergraduate Research Task Force member

OTHER LEADERSHIP EXPERIENCES:

Member, City of Hendersonville (NC) Downtown Advisory Board

2025 – 2028

Member, OpenDoors Asheville Board of Directors

2025

Senior Advisor for Research, University of North Carolina (UNC) System Office 2019 – 2020

- Engaged in strategies related to research opportunities based on state initiatives
- Discussed research initiatives at UNC System Chief Academic Officer regular meetings
- Lead meetings of UNC System CRO and UNC System Undergraduate Research Directors
- Developed RFP processes and reviewed proposals for system funding opportunities and conveyed results to the PI/institution
- Developed President's Report of UNC System institution's research successes for the year

Southeastern Regional Meeting of the American Chemical Society (SERMACS, Inc.)

- Secretary 2017-2022 (re-elected at SERMACS 2019 for 2020-2022 term)
- Chair 2010 (Chair-Elect 2009; Immediate Past Chair 2011)
- Convened meeting of officers at SERMACS/SWRMACS joint meeting, fall 2010

Western Carolinas Section of the American Chemical Society

- Chair, Communications/Newsletter Committee, Western Carolinas ACS 2007-2018
- Special Events Coordinator for the 2007 Southeast Regional Meeting of the American Chemical Society (SERMACS) Innovative Project Grant: Awarded \$3000 for the Local

Section to host “Oxygen”, was implemented in a play by Carl Djerassi and Nobel Laureate Roald Hoffmann, at SERMACS 2007

- Chair (Chair-Elect 2005; Immediate Past Chair 2007)

SERVICE TO UNC ASHEVILLE (as a faculty member):

Search Committees

- Chancellor Search Committee, Member 2014
- Health and Wellness department new faculty search committee: 2005, 2010, 2012, 2013
- Athletics Department Search Committees
 - Athletic Director Search Committee, Spring 2004
 - Assistant Athletic Director of Media Relations, Summer 2015
 - Search Committees of Head Coaches
 - Women’s Basketball, Spring 2001; Cross Country/Track/Field, Summer 2009; Men’s Baseball, Summer 2010, Summer 2014; Soccer (Men’s and Women’s), Summer 2010; Women’s Swimming, Fall 2011; Women’s Volleyball, Spring 2011
- Intramural Sports Director Search Committee, Fall 2003
- Director of Admissions Search Committee, Spring 2001

Student-centered Service

- GlaxoSmithKline Women in Science Fellowship Coordinator 2006-present
- Sexual Misconduct Hearing Board Member, 2016-2018
- Student Affiliates of the American Chemical Society, Advisor/co-Advisor, 1999-2004
- Women’s Fast Pitch Club Softball Advisor/Coach, 2003-2005

Faculty-centered Service

- Teaching Awards Committee, 2017-2018
- Diversity Advocate for Search Committees, 2017-2018
- Non-Tenure Line Task Force Member, 2016-2017
- Position Allocation Committee 2008-2009; 2010-2012
- Faculty Senate, Institution Development Committee, 2005-2008
- University Planning Council, 2007-2008
- Strategic Planning Convener, 2006-2007
- Integrated Liberal Studies, Diversity Intensive sub-committee, 2004-2006
- University Research Council, 2003-2005, 2005-2007, Chair 2004-2007
- Feldman Professorship Review Committee 2003-2005

Departmental Service

- Advise traditional, non-traditional and transfer students on curricular plans
- Mentor new and junior faculty in chemistry and other departments
- NMR Liquid Nitrogen and Liquid Helium fill experience
- Coordinator of outside speakers

- Helped coordinate Department picnics for faculty, students and staff 2013-2017
- Search Committee Member: Analytical Chemist, Biochemist, Inorganic Chemist, and Laboratory Manager

SERVICE TO THE CHEMISTRY COMMUNITY

Manuscripts, Proposals and Abstracts Reviewed:

Reviewer for Medicinal Chemistry Research
 Reviewer for Bioorganic and Medicinal Chemistry
 ACS-Petroleum Research Fund
 Panel reviewer for National Science Foundation
 Reviewed 40+ abstracts submitted to NCUR 2016

Professional Mentorship:

GlaxoSmithKline Postdoctoral Fellows Drs. Jalisa Ferguson and Corey Johnson: As a postdoctoral fellow in my research group, I mentored their teaching and research to help develop their skills as a faculty member in preparation for a position at a primarily undergraduate institution (PUI). Dr. Ferguson secured a tenure-track position at Eckerd College (FL) in fall of 2019 and Dr. Johnson at Xavier (LA) starting fall 2021.

Coordinated a visit of a postdoctoral fellow Dr. Caitlin Scott, in the laboratory of Dr. Peter Kekeneshusky (Class of 2001; Assistant Professor, Loyola – University of Chicago); I discussed with her teaching and research at a primarily undergraduate institution (PUI); She met with students and other faculty.

OUTREACH ACTIVITIES:

FIRST North Carolina

- Member of First NC Board, 2017-2023
- Judge First Robotic competition
- Assist the coordination and planning of First Robotics regional competition on campus

Asheville Museum of Science (AMOS)

- Periodic coordination with AMOS team leaders for summer programming on campus

EDUCATION			
Ph.D. Chemistry	University of Cincinnati		1999
M.S. Chemistry	Furman University		1993
B.A. Chemistry	Kenyon College		1992

FACULTY RANK:

Professor, UNC Asheville	July 2017-present
Associate Professor, UNC Asheville	July 2006-2017
Assistant Professor, UNC Asheville	July 2000-2006
Visiting Assistant Professor, UNC Asheville	July 1999-June 2000
Research Assistant Professor, UNC Asheville	August 1998-June 1999

ACADEMIC EXPERTISE AND COURSES TAUGHT :

Organic Chemistry I & II and Organic Chemistry Lab I & II;
 Organic Reactions and Mechanisms; Bioorganic Chemistry

General Chemistry Lecture and Laboratory; Introduction to Chemical Research Methods
Neuroscience Capstone (Chemistry focus)

RESEARCH INTERESTS:

Organic and Organometallic Synthesis and Bioorganic Chemistry

PROFESSIONAL AWARDS:

- **Awarded Distinguished Teacher of the Year, Natural Sciences, 2017**
- Awarded Mike Gore Service Award, Department of Athletics, 2009
- James O. Koehler Prize recipient as a graduate student role model, carrying out all aspects of the mission of the Department, University of Cincinnati, 1998
- Hochstetter Award, Excellence in Teaching, University of Cincinnati, 1996

SCHOLARSHIP OVERVIEW

RECENT GRANT ACTIVITY

- **National Institutes of Health, Biomedical Research Environment and Sponsored Programs Administration Development (BRE-SPAD) Program** “*BRE-SPAD at the University of North Carolina Asheville*”, **Herman Holt (PI)**, Charlotte Smith (co-I). **\$3,059,902.00 SUBMITTED 01/2026.**
- **National Science Foundation, NOYCE Track 1** “*Preparing the Resilient Innovative STEM Educators (PRISE)*”, **Herman L. Holt (PI)**, Megan Keiser (co-PI), Julia Webster (co-PI), Cathy Whitlock (co-PI). **\$1,198,798 SUBMITTED 08/2024; not funded 6/2025.**
- **National Science Foundation, Major Research Instrumentation** “*MRI: Acquisition of a 400 MHz and Benchtop NMR for Use in Research and Teaching in the Department of Chemistry at UNC Asheville*”, Amanda Wolfe (PI), **Herman L. Holt (co-PI)**, Caitlin McMahon (co-PI), Jason M. Schmeltzer (co-PI), Sally Wasileski (co-PI). **\$850,284 SUBMITTED, January 2020, not funded.**
- **HHMI IE3 – Pre-Proposal (Howard Hughes Medical Institute Inclusive Excellence 3)** **Herman Holt (Program Director)**. **\$1M Submitted January 2020, not funded.**
- **National Science Foundation, S-STEM (Scholarships in Science, Technology, Engineering and Math)**, *Award 1833604 “Implementation and Investigation of a Holistic Student Support Learning Environment for Undergraduate Chemistry Majors”* Sally A. Wasileski (PI), Amanda Wolfe (co-PI), **Herman L. Holt (co-PI)**, Jacquelyn McHargue (co-PI), Jason M. Schmeltzer (co-PI). **\$998,995, FUNDED: 2019 - 2025.**
- **North Carolina GlaxoSmithKline Foundation** “*The NC GlaxoSmithKline Foundation Chemistry & Biology Fellows & Scholars Program: A Five-Year project to Fortify and Diversify Undergraduate Medicinal Chemistry, Biochemistry, and Chemical & Molecular Biology Research at UNC Asheville.*” Keith Krumpke (PI), Amanda Wolfe (Senior Personnel), Thomas Meigs (Senior Personnel), **Herman Holt Jr. (Senior Personnel)**, Sarah Seaton (Senior Personnel), **\$2,276,004, FUNDED: 2016-2021.**

- **National Science Foundation, S-STEM (Scholarships in Science, Technology, Engineering and Math)**, “*Chemistry First Scholars: Supporting At-Risk First-Generation Students in Chemistry*” Sally A. Wasileski (PI), Bert Holmes (co-PI), **Herman L. Holt (co-PI)**, Jason M. Schmeltzer (co-PI), Amanda Wolfe (co-PI). **\$605,711, FUNDED: 2015-2020.**
- **National Science Foundation, S-STEM (Scholarships in Science, Technology, Engineering and Math)**, “*Transitioning Students into Chemistry Professionals*” Sally A. Wasileski (PI), **Herman L. Holt (co-PI)**, Jason M. Schmeltzer (co-PI), Laura Bowers (co-PI), **\$599,850, FUNDED: 2011-2016.**
- **National Science Foundation, DRL - Core R&D Programs** “*Collaborative Research: Professional Development Workshops Dealing with Forensics to Allow Middle and High School Teachers to Obtain an Understanding of Chemistry*” **Herman Holt, Jr., PI** (Collaboration with 2 other institutions: University of Cincinnati and Florida Community College at Jacksonville), **\$190,754 submitted February 2014, not funded.**

RESEARCH WITH STUDENTS

- Conducted research with students focused on heterocyclic chemistry and tubulin inhibition
- Most research activity resulted in a thesis and public presentation at a regional meeting

PUBLISHED RESEARCH (undergraduates underlined)

- 1) “*Design, Synthesis, and Biological Testing of Pyrazoline Derivatives of Combretastatin-A4*” Marlie Johnson, Brent Younglove, Lauren Lee, Regan LeBlanc, Herman Holt Jr., Patrice Hills, Hilary Mackay, Toni Brown, Susan L. Mooberry and Moses Lee *Bioorganic & Medicinal Chemistry Letters* **2007**, *17*, 5897-5901.
- 2) “*Design, synthesis and biological testing of cyclohexenone derivatives of combretastatin-A4*” Jennifer Ruprich, Andrew Prout, John Dickson, Brent Younglove, Lawrence Nolan, Khyati Baxi, Regan LeBlanc, Lori Forrest, Patrice Hills, Herman Holt, Jr., Hilary Mackay, Toni Brown, Susan L. Mooberry, and Moses Lee *Letters in Drug Design & Discovery* **2007**, *4*, 144-148.
- 3) “*The application of vinylogous iminium salt derivatives to an efficient synthesis of the pyrrole containing alkaloids Rigidin and Rigidin E*” John T. Gupton, Edith J. Banner, Austin B. Scharf, Bradley K. Norwood, Rene P. F. Kanters, Raymond N. Dominey, Jonathan E. Hempel, Anastasia Kharlamova, Itta Bluhn-Chertudi, Charles R. Hickenboth, Barrett A. Little, Melissa D. Sartin, Matthew B. Coppock, Keith E. Krumpke, Bruce S. Burnham, Herman Holt, Karen X. Du, Kartik M. Keertikar, Anthony Diebes, Shahnaz Ghassemi and James A. Sikorski *Tetrahedron* **2006**, *62*, 8243-8255.
- 4) “*Synthesis of Biologically Active Heterocyclic Stilbene and Chalcone Analogs of Combretastatin*” Toni Brown, Herman L. Holt, Jr., and Moses Lee, in *Topics in Heterocyclic Chemistry*, **2006**, *2*, 1-51. Springer, Heidelberg Germany.
- 5) “*Synthesis and Cytotoxic Properties of Chalcones: An Interactive and Investigative Undergraduate Laboratory Project at the Interface of Chemistry and Biology*” Dickson, J.; Flores, L.; Stewart, M.; Holt, H.; LeBlanc, R.; Lee, M. J. *Chem. Ed.*, **2006**, *83*, 934-936.

- 6) "Reaction of Chalcones with Basic Hydrogen Peroxide: A Structure and Reactivity Study" Herman L. Holt, Jr. Regan LeBlanc, John Dickson, Toni Brown, Jessica R. Maddox, Moses Lee *Heterocyclic Communications* **2005**, 6, 465-470.
- 7) "Synthesis and Cytotoxicity of Epoxide and Pyrazole Analogs of the Combretastatins" Regan LeBlanc, John Dickson, Toni Brown, Michelle Stewart, Hari N. Pati, Don VanDerveer, Hadi Arman, Jeff Harris, William Pennington, Herman L. Holt, Jr., and Moses Lee *Bioorganic and Medicinal Chemistry* **2005**, 13, 6025-6034.
- 8) "Synthesis and Biological Evaluation of cis-Combretastatin Analogs and their Novel 1,2,3-Triazole Derivatives" Hari Pati, Martha Wicks, Herman L. Holt, Jr., Regan LeBlanc, Paul Weisbruch, Lori Forrest, Moses Lee *Heterocyclic Communications* **2005**, 11(2), 117-120.
- 9) "Synthesis and Cytotoxic Properties of Nitro- and Aminochalcones" Hari Pati, Herman L. Holt, Jr., Regan LeBlanc, John Dickson, Michelle Stewart, Toni Brown, Moses Lee *Med. Chem. Res.* **2005**, 14, 19-25.
- 10) "The Ring Expansion of a Dimethyl-Substituted Vinylcyclobutene Derivative by Metal Complexes Which Can Undergo an Inner Sphere Electron Transfer"; Herman L. Holt Jr., Tom Russo, and Allan Pinhas. *J. Organomet. Chem.* **2000**, 601, 147-152.

SELECT STUDENT PUBLICATIONS

- 1) "Efforts Towards the Synthesis of a Novel Combretastatin A4 Analog with a 5,6,7-Trimethoxy Indole Substituted at the 3-Position" Teresa Rocha (Herman Holt, Jr.) **Proceedings of The National Conference On Undergraduate Research (NCUR) 2016.**
- 2) "Phenstatin Analogs with Non-Aromatic Attachments in Place of the B-Ring" Amanda Oswald (Herman Holt, Jr.) **Proceedings of The National Conference On Undergraduate Research (NCUR) 2016.**
- 3) "Synthesis and Isolation of 5,6,7-Trimethoxy Indoles for Binding Diverse Functional Groups at the 3-Position of the Indole to Make Novel Combretastatin Derivatives" Teresa Rocha (Herman Holt, Jr.) **Proceedings of The National Conference On Undergraduate Research (NCUR) 2015.** "
- 4) "Stereoselective Synthesis of Aziridine and Epoxide Analogues of the Combretastatins" Ryan A. Oliver (Herman Holt, Jr.) **University of North Carolina Asheville Journal of Undergraduate Research, 2011.**
- 5) "Approaches to Peptide Attachment onto Carboxylic Acid Substituted Cyclobutane Analogs of Combretastatin A-4" Nigel McCourry (Herman Holt, Jr.) **Proceedings of the National Conference on Undergraduate Research, 2011.**
- 6) "Fluorometric Assays of Tubulin Inhibition by Analogs of Combretastatin A-4 and Phenstatin. Ahamad Abuadas (Contributions from Ryan Oliver, Thomas Poole, Karen Buchmueller and Herman Holt, Jr.) **Proceedings of the Big South Undergraduate Research Symposium, 2011.**

- 7) "*Synthesis of Indole Based Combretastatins*" **Thomas Poole** (Herman L. Holt, Jr.); **University of North Carolina Asheville Journal of Undergraduate Research, 2010.**
- 8) "*Synthesis of Novel Heterocyclic Chalcone Derivatives*" **Marissa Aubrey** (Herman L. Holt, Jr.); **22nd National Conferences on Undergraduate Research Proceedings, 2008.**
- 9) "*Aziridine-Containing Analogs of Combretastatin*" **Alex Graettinger** (Herman L. Holt, Jr.); **22nd National Conferences on Undergraduate Research Proceedings, 2008.**
- 10) "*Studies Towards Improving the Synthesis of the Mitomycin Family of Anti-tumor Agents*" **David R. Mabe** (Herman L. Holt, Jr.); **20th National Conferences on Undergraduate Research Proceedings, 2006.**

CHEMICAL EDUCATION PUBLICATIONS AND PRESENTATIONS

- 1) "*Visiting Faculty Mentor as a Component of an NSF-REU Program*", Collins, S.N.; Holt, H.L. Jr.; Harkless, J.A.; Gudmundsdottir, A.D.; Ault, B.S., *J. Chem. Ed.* **2009**, *86*, 565.
- 2) "*Synthesis and Cytotoxic Properties of Chalcones: An Interactive and Investigative Undergraduate Laboratory Project at the Interface of Chemistry and Biology*" Dickson, J.; Flores, L.; Stewart, M.; Holt, H.; LeBlanc, R.; Lee, M. *J. Chem. Ed.*, **2006**, *83*, 934-936. (also included in research publications)

INVITED LECTURE

University of North Carolina at Greensboro Chemistry and Biochemistry Seminar
"*Synthesis of Heterocyclic Combretastatin and Chalcone Molecules*", **Herman Holt, Jr.**
Department of Chemistry, UNC Asheville, Greensboro, NC, February 13th 2015.

SELECT RESEARCH PRESENTATIONS

- 1) "*Combretastatin and chalcone B-ring analogues via indole aldehydes*" **Herman L. Holt Jr.** 67th Southeastern and 71st Southwest Regional Meeting of the American Chemical Society (joint meeting with Southwest Region), (oral) Memphis, TN; November 2015.
- 2) "*Synthesis of Aziridine and Heteroaromatic Analogs of Combretastatin A-4*" **Herman L. Holt, Jr** (presenting author), Tom J.A. Graham, Thomas H. Poole, Ryan A. Oliver and Ahamad M. Abuadas. 61th Southeast Regional Meeting of the American Chemical Society, San Juan Puerto Rico; October, 2009.
- 3) "*Synthesis and Biological Evaluation of Cyclohexenone Derivatives of Combretastatin A4 as Potential Tubulin Inhibitors*", John Dickson, Kiati Baxi, Toni Brown, Regan LeBlanc Toni Brown, Lori Forrest, P. Nolan, **Herman L. Holt, Jr.** W. Pennington, and Moses Lee; **231st ACS National Meeting**, Atlanta, GA; March, 2006.
- 4) "*Unexpected retro-Aldol Condensation of Chalcones: A Structure and Reactivity Study: Part II*" **Herman L. Holt Jr.** **229th ACS National Meeting**, San Diego, CA; March, 2005.
- 5) "*Unexpected retro-Aldol Condensation of Chalcones: A Structure and Reactivity Study*" **Herman L. Holt Jr.** **56th ACS Southeast Regional Meeting**, Research Triangle Park, NC; November, 2004.

SELECT STUDENT RESEARCH PRESENTATIONS

- 1) "*Synthesis of Pyrazoline Derivatives from Chalcones*" **Danielle Davis** and Herman L. Holt Jr. **69th Southeastern Regional Meeting of the American Chemical**, (poster) Charlotte, NC; November 2017.
- 2) "*Synthesizing Indoles as Allosteric Modulators to Cannabinoid CB1 Receptors*" **Mary McCrory** and Herman L. Holt Jr. **69th Southeastern Regional Meeting of the American Chemical**, (poster) Charlotte, NC; November 2017.
- 3) "*Double Usage of Anticancer Compound to Detain Cancerous Cell Division and Cleave Foreign DNA*" **Malina Navarez**, Jalisa Ferguson and Herman L. Holt Jr. **69th Southeastern Regional Meeting of the American Chemical**, (poster) Charlotte, NC; November 2017.
- 4) "*An investigation of electron density and resonance of a 6π conjugated system*" **Rogers Muldrow** and Herman L. Holt Jr. **69th Southeastern Regional Meeting of the American Chemical**, (poster) Charlotte, NC; November 2017.
- 5) "*Phenstatin Analogues with non-aromatic attachments in place of the B-ring*" **Amanda Oswald** and Herman L. Holt Jr. **68th Southeastern Regional Meeting of the American Chemical**, (poster) Columbia, SC; October 2016.
- 6) "*Fluorinated Derivatives of cis-stilbene and their Anti-Cancer Potential*" **Logan Breiner** and Herman L. Holt Jr. **68th Southeastern Regional Meeting of the American Chemical**, (poster) Columbia, SC; October 2016.
- 7) "*Synthesis of a novel combretastatin A4 analog with a 5,6,7-trimethoxy indole substituted at the 3-position*" **Teresa Rocha** and Herman L. Holt Jr. **30th National Conference on Undergraduate Research**, (oral) University of North Carolina Asheville; Asheville, NC April 2016.
- 8) "*Phenstatin Analogues with non-aromatic attachments in place of the B-ring*" **Amanda Oswald** and Herman L. Holt Jr. **30th National Conference on Undergraduate Research**, (poster) University of North Carolina Asheville; Asheville, NC April 2016.
- 9) "*Synthesis and isolation of 5,6,7-trimethoxy indoles for the creation of novel combretastatin derivatives linked at the 3-position*" **Teresa Rocha** and Herman L. Holt Jr. **67th Southeastern and 71st Southwest Regional Meeting of the American Chemical Society (joint meeting with Southwest Region)**, (oral) Memphis, TN; November 2015.
- 10) "*Synthesis and isolation of 5,6,7-trimethoxy indoles for binding diverse functional groups at the 3-position of the indole to make novel combretastatin derivatives*" **Teresa Rocha** and Herman L. Holt Jr. **29th National Conference on Undergraduate Research**, (poster) Eastern Washington University; Cheney, WA, April 2015.