# Darin E. Jones

CURRICULUM VITAE

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## PRIOR EMPLOYMENT

**2018-present** **Associate Professor of Pharmaceutical Sciences, University of Arkansas for Medical Sciences, Little Rock, Arkansas**
Teach undergraduate courses (drug action and medicinal chemistry) for professional program for (Pharm D. program). Teach graduate courses in medicinal chemistry for graduate program. Research advisor for Ph.D., MS., and undergraduate students.

**2017-2018** **Associate Professor of Chemistry, University of Arkansas in Little Rock, Little Rock, Arkansas**
Teach undergraduate organic chemistry courses (I, II, and accompanying laboratories). Teach graduate courses in medicinal chemistry (Drug Design) and organic chemistry (organic reaction mechanisms). Research advisor for Ph.D., MS., and undergraduate students.

**2011-2017** **Assistant Professor of Chemistry, University of Arkansas in Little Rock, Little Rock, Arkansas**
Teach undergraduate organic chemistry courses (I, II, and accompanying laboratories). Teach graduate courses in medicinal chemistry (Drug Design) and organic chemistry (organic reaction mechanisms). Research advisor for Ph.D., MS., and undergraduate students.

**2010-2011** **Senior Staff Scientist, Washington University School of Medicine, St. Louis, Missouri**
Investigation of mechanisms of metastatic cancer in the c-Met/RON pathway. Designed and prepared peptidic and small molecular inhibitors of Hepatocyte Growth Factor Activator (HGFA).

**2004-2010** **Senior Principal Scientist, Pfizer, St. Louis, Missouri**
Served as Research Project Leader for discovery projects and chemistry leader for many projects. Led a multi-disciplinary team of scientists in pursuit of a compound with appropriate properties for pre-clinical development. Worked closely with colleagues from DMPK, *in vitro* and *in vivo* pharmacology, legal, pharmaceutical sciences and safety sciences to identify a compound with the optimal combination of physical and drug properties. Worked with early stage projects to evaluate drug targets, identified novel chemical matter, and devised medicinal chemistry strategies.

**1999-2004** **Principal Scientist, Pharmacia/Pfizer, St. Louis, Missouri**
Served as chemistry leader for multiple projects. Prepared novel analogs for multiple drug targets (proteases, kinases, G protein-coupled receptors, nuclear receptors). Developed novel, new chemical methodologies to enable the rapid progression of discovery programs. Served as point-of-contact person for securing intellectual property rights over our research on several lead series in the project by helping draft patent applications of the team's research. Designed scalable routes to lead compounds for pharmacological proof of concept. Skills demonstrated included: invention

of new chemistry, creative structure-based analog design, parallel synthesis, library design, supervisory skills of direct report, problem solving, designing and executing well defined research plans efficiently. Managed direct reports.

**1997-1999** **Research Scientist, Searle Pharmaceuticals, St. Louis, Missouri**
Designed and prepared novel analogs for multiple discovery projects (kinase and protease projects). Managed direct reports.

**1996-1997** **Visiting Scholar, University of California-Riverside, Riverside, California**
Postdoctoral work developed and applied new methodology for the stereoselective synthesis of functionalized tetrahydrofurans. Mentored and taught graduate students research and laboratory skills.
(Advisor: Steven R. Angle)

**1993-1996** **Graduate Research Assistant, University of Missouri-Columbia, Columbia, Missouri**
Ph.D thesis work investigated the synthesis and reaction of heteroatom to stabilized allylic cations with various dienes. Resulted in the first example of an asymmteric 4+3 cycloaddition.
(Advisor: Michael Harmata)

**1990-1993** **Graduate Teaching Assistant, University of Missouri, Columbia, Columbia, Missouri**
Served as teaching assistant for multiple university courses including General Chemistry I and II, Organic Chemistry I and II, and Fundamental Organic and Biochemistry. Duties included instruction of laboratories, grading, maintenance of laboratory equipment and conflict resolution.

## EDUCATION

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| **1996** | Ph.D. Chemistry | University of Missouri, Columbia, Missouri |
| **1990** | B.S. Chemistry | Central Missouri State University, Warrensburg, Missouri |

## AWARDS AND HONORS

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| **2017** | UALR-CALS Excellence in Research or Creative Endeavors Award |
| **2015** | UALR Graduation and Retention Advocate Award |
| **2014** | UALR Graduation and Retention Advocate Award |
| **2013** | AAPS Student Chapter Appreciation Award |
| **1991** | Dorothy Nightingale Fellowship |
| **1990** | Dean of Arts and Science Student Advisory Council |
| **1990** | American Chemical Society-Student Affiliate, Chapter President |

## PROFESSIONAL SOCIETIES

American Chemical Society
American Association of Pharmaceutical Scientist
MidSouth Computational Biology and Bioinformatics Society
American Academy of Distinguished Students
Phi Lambda Upsilon

## GRANTS AND CONTRACTS

Current

National Institute of Health/National Cancer Institute (2P01CA092584-16, Co-PI, J.A. Tainer, PI)
"Structural Cell Biology of DNA Repair Machines"
Grant Period: 09/13/2016-08/31/2021 (0.5 cm)

National Institute of Health/National Cancer Institute (R01CA200231-01A1, PI of MPI, J.A. Tainer, PI)

"Pharmacological Modulation of Poly(ADP-ribose) Metabolism"
Grant Period: 03/07/2016-02/28/2021 (3.0 cm)

National Institute of Health/National Institute of General Medical Sciences (GM047251, Co-PI, A.E. Tomkison, PI)
"Cellular Functions of Eukaryotic DNA Ligases"
Grant Period: 09/01/2018-08/31/2022 (0.7 cm salary)

Completed

Arkansas Science and Technology Authority (15-B-01, PI)
"Discovery and Optimization of Dehydroleucodine Analogues as Anti-Leukemia and Cytotoxic Agents"
Grant Period: 07/25/14-07/24/16

National Science Foundation (CHE 1229149, Co-PI, A. Ghosh, PI)
"Acquisition of an NMR Spectrometer for Research and Teaching"
Grant Period: 09/01/2012-09/01/2016.

## PUBLICATIONS

Selective Small Molecule PARG inhibitor Causes Replication Fork Stalling and Cancer Cell Death. Houl, Jerry H.; Ye, Zu; Brosey, Chris A.; Balapiti-Modarage, Lakshitha, P.F.; Namjoshi, Sarita; Bacolla, Albina; Laverty, Daniel; Walker, Brian, L.: Pourfarjam, Yasin; Warden, Leslie, S.; Chinnam, Naga Babu; Moiani, Davide; Stegeman, Roderick A.; Cen, Mei-Kuang; Hung, Mien-Chie; Nagal, Zachary D.; Ellenberger, Tom; Kim, In-Kwon; Jones, Darin E.; Ahmed, Zamal; Tainer, John A. *Nat. Comm.* **2019** Dec 11; 10(1): 5654. doi: 10.1038/s41467-019-13508-4.

Structure-activity Relationships among DNA Ligase Inhibitors: Characterization of a Selective Uncompetitive DNA Ligase I Inhibitor. Howes, Rimothy, R.L.; Sallymr, Annahita; Brooks, Rhys; Greco, George, E.; Jones, Darin E.; Matumoto, Yoshihiro; Tomkinson, Alan, E. *DNA Repair*, **2017**, *60*, 29-39.

Dehydroleucodine, a Sesquiterpene Lactone from *Gynoxys verrucosa*, Demonstrates Cytotoxic Activity against Human Leukemia Cells. Ordonez, Paola E.; Sharma, Krishan K.; Bystrom, Laura M.; Alas, Maria A.; Enriquez, Raul G.; Malagon, Omar; Jones, Darin E.; Guzman, Monica L.; Compadre, Cesar M. *J. Nat. Prod.*, **2016**, *79*, 691.

Structure-based Discovery of Small Molecule Hepsin and HGFA Protease Inhibitors: Evaluation of Potency and Selectivity Derived from Distinct Binding Pockets. Franco, Francisco M.; Jones, Darin E.; Harris, Peter K.W.; Han, Zhenfu; Wildman, Scott A.; Jarvis, Cassie M.; Janetka, James W. *Bioorg. Med. Chem.*, **2015**, *23*, 2328.

Inhibitors of HGFA, Matriptase, and Hepsin Serine Proteases: A Nonkinase Strategy to Block Cell Signaling in Cancer. Han, Zhenfu; Harris, Peter K.W.; Jones, Darin E.; Chugani, Ryan; Kim, Tommy; Agarwal, Manjula; Shen, Wei; Wildman, Scott A.; Janetka, James W. *ACS Med. Chem. Lett.*, **2014**, *5*, 1219.

Activation of $sp^3$ and $sp^2$ C-H bonds of oxygen containing heterocyclic molecules for alkylation and arylation reactions catalyzed by an iron complex. Gartia, Yashraj; Ramidi, Punnamchandar; Cheerla, Sreevishnu; Felton, Charlette M.; Jones, Darin E.; Das, Bhaskar C.; Ghosh, Anindya. *J. Mol. Catal. A: Chem.*, **2014**, *392*, 253.

Nickel Complex Catalyzed Efficient Activation of sp3 and sp2 C-H Bonds for Alkylation and Arylation of Oxygen Containing Heterocyclic Molecules. Gartia, Yashraj; Ramidi, Punnamchandar; Jones, Darin E.; Pulla, Sharon; Ghosh, Anindya. *Catal. Lett.* **2014**, *144*, 507.

Discovery and SAR of PF-4693627, a Potent, Selective and Orally Bioavailable mPGES-1 Inhibitor for the Potential Treatment of Inflammation. Arhancet, Graciela B.; Walker, Daniel P.; Metz, Sue; Fobian, Yvette M.; Heasley, Steven E.; Carter, Jeffery S.; Springer, John R.; Jones, Darin E.; Hayes, Michael J.; Shaffer, Alexander F.; Jerome, Gina M.; Baratta, Michael T.; Zweifel, Ben; Moore, William M.; Masferrer, Jaime L.; Vazquez, Michael L. *Bioorg. Med. Chem. Lett.*, **2013**, *23*, 1114.

A Novel Iron Complex for the Cross-Coupling Reactions of Multiple C-Cl Bonds in Polychlorinated Solvents with Grignard Reagents. Gartia, Yashraj; Pulla, Sharon; Ramidi, Punnamchandar, Costa Ferris, Carolina; Nima, Zeid; Jones, Darin E.; Biris, Alexandru S.; Ghosh, Anindya. *Catal. Lett.*, **2012**, *142*, 1397.

Synthesis of a Versatile 2(1*H*)-Pyrazinone Core for the Preparation of Tissue Factor-Factor VIIa Inhibitors. Jones, Darin E.; South, Michael S. *Tetrahedron*, **2010**, *66*, 2570.

Design, Parallel Synthesis, and Crystal Structures of Pyrazinine Antithrombotics as Selectivie Inhibitors of Tissue Factor VIIa Complex. Parlow, John J.; Case, Brenda L.; Dice, Thomas, A.; Fenton, Ricky, L.; Hayes, Michael J.; Jones, Darin E.; Neumann, William L.; Wood, Rhonda S.; Lachance, Rhonda M.; Girard, Thomas J.; Nicholoson, Nancy S.; Clare, Michael; Stegeman, Roderick A.; Stevens, Anna M.; Stallings, William C.; Kurumbail, Ravi G.; South, Michael S. *J. Med. Chem.* **2003**, *46*, 4050.

Structure-Based Drug Design of Pyrazinone Antithrombotics as Selective Inhibitors of the Tissue Factor/Factor VIIa Complex. South, Michael S.; Case, Brenda L.; Wood, Rhonda S.; Jones, Darin E.; Hayes, Michael J.; Girard, Thomas J.; Lachance, Rhonda M.; Nicholson, Nancy S.; Clare, Michael; Stevens, Anna M.; Stegeman, Roderick A.; Stallings, William C.; Kurumbail, Ravi G.; Parlow, John J. *Bioorg. Med. Chem. Lett.* **2003**, *13*, 2319.

Multi-Step Polymer-Assisted Solution-Phase (PASP) Library Synthesis of Functionalized Diaminobenzamides. South, Michael S. Case, Brenda L.; Dice, Thomas A.; Franklin, Gary W.; Hayes, Michael J.; Jones, Darin E.; Lindmark, Richard J.; Zeng, Qingping; Parlow, John J. *Combin. Chem. High Throughput Screen.* **2000**, *3*, 139.

Chiral Cations in 4+3 Cycloadditions. Harmata, Michael; Jones, Darin E.; Kahraman, Mehmet; Sharma, Uday; Barnes, Charles L. *Tetrahedron Lett.*, **1999**, *40*, 1831.

Stereoselective Synthesis of 2,3,4-Trisubstituted Tetrahydrofurans. Angle, Steven R.; Bernier, Daniel S.; Chann, Kieth; Jones, Darin E.; Kim, Musong; Neitzel, Martin L.; White, Stephen L. *Tetrahedron Lett., **1998**, 39,* 8195.

The Reaction of N-Phenylsulfonimidoyl Chloride with Trimethylsilylethene. Harmata, Michael; Kahraman, Mehmet, Jones, Darin E.; Pavri, Neville, Weatherwax, Susan. *Tetrahedron, **1998**, 54, 9995.*

Synthesis of Tetrahydrofurans from Protected B-Hydroxyaldehydes: Optimization of the Alcohol Protecting Group. Angle, Steven R.; Bernier, Daniel S.; El-Said, Nahla A.; Jones, Darin E.; Shaw, Stephanie Z. *Tetrahedron Lett., **1998**, 39,* 3919.

Heteroatom-Stabilized Allylic Cations in 4+3 Cycloadditions. A Tandem Peterson Olefination/4+3 Cycloaddition Reaction. Harmata, Michael; Jones, Darin E. *Tetrahedron Lett.,* **1997,** *38*, 3861.

Cloning, Sequence, and Expression of a Blood Group B Active Recombinant a-D-Galactosidase from Pinto Bean (*Phaseolus vulgaris*). Davis, Melissa O.; Hata, Jane, D.;

Johnson, Scott A.; Jones, Darin E.; Harmata, Michael A.; Evans, Evans, Maria L.; Walker, John C.; Smith, Daniel S. *Biochem. Mol. Biol. Int.,* **1997,** *42*, 453.

Vinyl Oxocarbenium Ions in Intermolecular 4+3 Cycloaddition Reactions. Harmata, Michael; Jones, Darin E. *J. Org. Chem*. **1997**, *62*, 1578.

The Metalation of Troeger's Base. Harmata, Michael; Carter, Kevin W.; Jones, Darin E.; Kahraman *Tetrahedron Lett*. **1996**, *37*, 6267.

Intramolecular 4+3 Cycloadditions. Vinylthionium Ions From Allylic Alcohols. Harmata, Michael; Jones, Darin E. *Tetrahedron Lett*. **1996**, *37*, 783.

A General, Regioselective Approach to the Synthesis of Ortho Allyl Anilines. Harmata, Michael; Jones, Darin E. *Tetrahedron Lett*. **1995**, *36*, 4767.

Intermolecular 4+3 Cycloadditions. Studies of Relative Asymmetric Induction. Harmata, Michael; Gamalth, Chandra B.; Jones, Darin E. *J. Org. Chem*. **1995**, *60*, 5077.

## BOOK CHAPTERS

Jones, Darin E.; Harmata, Michael. "Metal-catalyzed (4+3) Cycloaddtions Involving Allylic Cations". In *Science of Synthesis*: Ma, S.; Gao, S., Eds. George Thieme Verlag KG: Stuttgart Germany, 2016; Vol.2, pp 349-382.

Jones, Darin E.; Harmata, Michael. "Application of the [4+3]-Cycloaddition Reaction to the Synthesis of Natural Products". In *Methods and Applications of Cycloaddition Reactions in Organic Syntheses*: Nishiwaki, N., Ed. John Wiley and Sons: Hoboken, 2013; pp 599-631.

Gaffney,Jeffery.S.; Marley, Nancy A.; Jones, Darin, E. "Fourier Transform Infrared (FTIR) Spectroscopy". In *Characterization of Materials*; 2nd Ed. Kaufmann, E.N., Ed. John Wiley and Sons: Hoboken, 2012; Vol. 2, pp 1104-1135.

## PATENTS

Tainer, John, A.; Ahmed, Zamal; Jones, Darin E.; Kim, In-Kwon; Ellenburger, Tom; Ho, Chris. **Small Molecule PARG Inhibitors and Methods of Use Thereof.** US Provisional Application No. 62/828,836. Filed March 29, 2019.

Ahmed, Zamal; Tainer, John, A.; Jones, Darin E. **Small Molecule GRB2 Stabilizers for RTK-induced RAS Inhibition.** US Provisional Application No. 62/818,502. Filed March 14, 2019.

Compadre, Cesar M.; Ordonez, Paola, E.; Guzman, Monica, L.; Jones, Darin E.; Malagon, Omar; Vidari, Giovanni; Crooks, Peter. **Dehydroleucodine Derivatives and Uses Thereof.** US 2019/0185442 A1.

Guzman, Monica L.; Compadre, Cesar M.; Ordonez, Paola E.; Martinez, Mariano; Balick, Michael J.; Jones, Darin E.; Gaudio, Flavio G. **Hetero-substituted cyclic lactone analogs and use thereof .** US 2018/0319815 A1.

Guzman, Monica L.; Compadre, Cesar M.; Ordonez, Paola E.; Martinez, Mariano; Balick, Michael J.; Jones, Darin E.; Gaudio, Flavio G. **Hetero-substituted cyclic lactone analogs and use thereof to inhibit the growth of leukemic cancer cells.** WO 2017079429 A1.

Compadre, C.; Ordoñez, P.E.; Guzman, M.; Jones, D.E.; Malagon, O.; Vidari, G.; Crooks, P. **Dehydroleucodine Derivatives for Treatment of Cancer.** WO 2015006715 A1.

Compadre, C.; Ordoñez, P.E.; Jones, D.E.; Martinez, M. **Hetero-substituted Cyclic Lactone Analogues and Uses There of.** US Provisional Application No. 62/251,463. Filed November 5, 2015.

Compadre, C.; Breen, P.J.; Aykin-Burns, N.; Hauer-Jensen, M.; Enriquez, R.G.; Kharade, S.; Jones, D.; Thakkar, S.; Malagon, O.; Ordoñez, Y.; Ojeda, S. **Preparation and Use of an Annatto Seed Extract.** United States Provisional Patent Application No. 61/877,655 filed September 13, 2013.

Compadre, C.; Ordoñez, P.E.; Guzman, M.; Jones, D.E.; Malagon, O.; Vidari, G.; Crooks, P. **Use of Dehydroleucodine and its Analogues as Antileukemic and Cytotoxic Agents.** United States patent application Serial No. 61/845,214, filed July 11, 2013.

Buchler, Ingrid P.; Hayes, Michael J.; Hegde, Shridar G.; Hockerman, Susan L.; Jones, Darin E.; Kortum, Steven W.; Rico, Joseph G.; Tenbrink, Ruth E.; Wu, Kun K. **Indazole derivatives as CB1 receptor modulators and their preparation and use in the treatment of CB1-mediated diseases**. WO 2009106982 A1.

Buchler, Ingrid P.; Hayes, Michael J.; Hegde, Shridar G.; Hockerman, Susan L.; Jones, Darin E.; Kortum, Steven W.; Rico, Joseph G.; Tenbrink, Ruth E.; Wu, Kun K. **Indazole derivatives as CB1 receptor modulators and their preparation and use in treatment of diseases**. WO 2009106980 A2.

South, Michael S.; Jones, Darin E.; Rueppel Melvin L. **Preparation of uracils useful for the selective inhibition of the coagulation cascade**. US 20067015230 B1.

South Michael S.; Hamme, Ashton T., II; Neumann, William L.; Jones, Darin E.; Rueppel, Melvin L. **Preparation of amidinobenzylcarbonylmethylpyrimidinones useful as selective inhibitiors of the coagulation cascade**. US 20036653316 B1.

South Michael S.; Webber, Ronald K.; Huang, Horng-chih; Toth, Mihaly V.; Moormann, Alan E.; Snyder, Jeffery S.; Scholten, Jeffery A.; Garland, Danny J.; Rueppel, Melvin L.; Neumann, William L.; Long, Scott; Huang, Wei; Trujillo, John; Parlow, John J.; Jones, Darin E.; Case, Brenda; Hayes, Michael J.; Zeng, Qingping; Zaheer, Abbas; Fenton, Ricky; Suleymanov, Osman D.; Salyers, Anita; Nicholson, Nancy S. **Preparation of 6-membered unsaturated heterocyclic compounds such as amidinobenzyl oxopyrazinylacetamides useful for the selective inhibition of serine proteases of the coagulation cascade**. WO 2003029224 A1.

South Michael S.; Webber, Ronald K.; Huang, Horng-chih; Toth, Mihaly V.; Moormann, Alan E.; Snyder, Jeffery S.; Scholten, Jeffery A.; Garland, Danny J.; Rueppel, Melvin L.; Neumann, William L.; Long, Scott; Huang, Wei; Trujillo, John; Parlow, John J.; Jones, Darin E.; Case, Brenda; Hayes, Michael J. **6-membered heterocyclic compounds useful for the selective inhibition of the coagulation cascade**. WO 2003029216 A1.

South Michael S.; Webber, Ronald K.; Huang, Horng-chih; Toth, Mihaly V.; Moormann, Alan E.; Snyder, Jeffery S.; Scholten, Jeffery A.; Garland, Danny J.; Rueppel, Melvin L.; Neumann, William L.; Long, Scott; Huang, Wei; Trujillo, John; Parlow, John J.; Jones, Darin E.; Case, Brenda; Hayes, Michael J.; Zeng, Qingping. **Preparation of amidine-substituted polycyclic compound prodrugs useful for selective inhibition of serine proteases of the coagulation cascade**. WO 2003028729 A2.

South Michael S.; Case, Brenda; Garland, Danny J.; Hayes, Michael J.; Huang, Horng-chih; Wei, Huang; Jones, Darin E.; Neumann, William L.; Parlow, John J.; Reitz, David B. Rueppel, Melvin L.; Webber, Ronald K. **Preparation of amidinobenzyl 6-amino-3-arylpyridine-2-acetamides as selective inhibitors of the coagulation cascade**. WO 2002042272 A2.

South, Michael S.; Parlow, John J.; Jones, Darin E.; Case, Brenda; Dice, Tom; Lindmark, Richard; Hayes, Michael J.; Rueppel Melvin L.; Fenton, Ricky; Franklin, Gary W.; Huang, Horng-chih; Huang, Wei; Kusturin, Carrie; Long, Scott A.; Nuemann, William L.; Reitz, David; Trujillo, John I.; Wang, Ching-Cheng; Wood, Rhonda; Zeng, Qingping; Mahoney, Mathew W. **Preparation of Arylpyrazinones as coagulation cascade serine protease inhibitors**. WO 2001087852 A1.

South, Michael S.; Rueppel Melvin L.; Jones, Darin E. **Preparation of (hetero)aryluracils as coagulation cascade serine protease inhibitors**. WO 2001087852 A1.

South Michael S.; Hamme, Ashton T., II; Neumann, William L.; Jones, Darin E.; Rueppel, Melvin L. **Preparation of (hetero)arylpyrimidinones as coagulation cascade serine protease inhibitors**. WO 2001087851.

South, Michael S.; Jones, Darin E.; Rueppel Melvin L. **Preparation of aryluracils as coagulation cascade serine protease inhibitors.** WO 2000069833 A1.

South, Michael S.; Hamme, Ashton T., II; Neumann, William L.; Jones, Darin E.; Rueppel, Melvin L. **Preparation of (hetero)arylpyrimidinones as coagulation cascade serine protease inhibitors**. WO 2001087851.

## PRESENTATIONS

"Discovery of DNA Repair Inhibitors" Presented at the Department of Chemistry Colloquium, University of Missouri, Columbia, October 28, 2019.

"Targeting DNA Damage Response and Repair Pathways for the Discovery of New Cancer Therapeitics" Presented at the UA Little Rock Biosciences Seminar, University of Arkansas at Little Rock, February 1, 2019.

"Targeting DNA Damage Response and Repair Pathways for the Discovery of New Cancer Therapeitics" Presented at the University of Arkansas Colloquium, University of Arkansas, Fayetteville, December 3, 2018.

"Targeting DNA Repair for the Development of Novel Cancer Therapeutics." Darin E. Jones. Presented at Drug Discovery & Development Colloquium 2018, University of Kentucky College of Pharmacy, Lexington, Kentucky, June 21-23, 2018.

"Peripheral Cannabinoid-1 Receptor (pCB-1) Agonist for Pain." Darin E. Jones. Presented the University of Central Arkansas, Conway AR, March 3, 2017.

"Design and Synthesis of Selective TF/VIIa Inhibitors." Darin E. Jones, Presented at 3rd Annual Drug Discovery and Development Colloquium, Birmingham AL, June 28-30, 2016

"Design and Synthesis of Selective TF/VIIa Inhibitors." Darin E. Jones, Presented at MCBIOS XIII, Memphis TN, March 3-5, 2016.

"Synthesis and Optimization of Cannabinoid-1 Receptor Agonist for Pain." Darin E. Jones. Presented at MCBIOS XII, Little Rock AR, March 12-14, 2015.

"Peripheral Cannabinoid-1 Receptor (pCB-1) Agonist for Pain." Darin E. Jones. Presented at Drug Discovery and Development Colloquim 2014, University of Arkansas Medical Sciences, Little Rock AR, June 20-21, 2014.

"Peripheral Cannabinoid-1 Receptor (pCB-1) Agonist for Pain." Darin E. Jones. Presented at Central Arkansas ACS Meeting, Harding University, March 31, 2014.
"Anti-MRSA Activity of Sesquiterpene Lactones: Pharmaceutical Considerations." Paola E. Ordóñez, Cassandra L. Quave, William F. Reynolds, Raul Enriquez, Omar Malagón, Darin E. Jones, Philip Breen, Mark S. Smeltzer, and Cesar M. Compadre. Presented at PharmForum'13, University of Arkansas Medical Sciences, Little Rock, AR, May 19-21, 2013.

"Drug Design of Tissue Factor/Factor VIIa Inhibitors." Darin E. Jones. Presented at College of Pharmacy Seminar Lecture Series, University of Arkansas Medical Sciences in Little Rock, February 10, 2012.

"Drug Discovery and Development." Darin E. Jones. Presented at UALR ACS Student Meeting, University of Arkansas at Little Rock, January 26, 2012.
"Peripheral Cannabinoid-1 Receptor (pCB-1) Agonist for Pain." Darin E. Jones. Presented at Siteman Cancer Center Colloquium, Washington University in St. Louis School of Medicine, October 14, 2011.

"Peripheral Cannabinoid-1 Receptor (pCB-1) Agonist for Pain." Darin E. Jones. Presented at UALR Science Scholars seminar series, University of Arkansas at Little Rock, November 17, 2011.

"Organic Chemistry: An Enabling Technology for Drug Discovery." Darin E. Jones. Presented at CSAM Colloquium, University of Arkansas at Little Rock, September 16, 2011.

"Advances in Medicinal Chemistry." Darin E. Jones. Paper # 055 (Cope Scholar Symposium) presented at the 64th Southwest Regional Meeting of the American Chemical Society, Little Rock, October 1-4, 2008. Invited presentation.

"Chemical Library Synthesis and Purification Strategy for the Mitsunobu Reaction." Darin E. Jones, Gale W. Starkey, John J. Parlow, and Daniel L. Flynn. Paper # 264 (ORGN) presented at the 216th National Meeting of the American Chemical Society, Boston, August 23-27, 1998.

"The Synthesis of 3-(4-Methylphenyl)cinnoline-4-carboxylic Acid, 2-(4-Methylphenyl)-3(2*H*)-cinnolinone and 2-(4-Methylbenzyl)-2*H*-indazole-3-carboxylic Acid From 1-(4-Methylbenzyliddeneamino)isatin." Robert L. Zey, Darin E. Jones, Robert R. Lemmer, Jason A. Morrill and Adam J. Novak. Paper #733 (ORGN) presented at the 216th National Meeting of the American Chemical Society, Boston, August 23-27, 1998.

"Vinyl Oxocarbenium Ions in Intermolecular [4+3] Cyloaddition Reactions." Michael Harmata and Darin E. Jones. Paper # 259 (ORGN) presented at the 213th National Meeting of the American Chemical Society, San Fransico, April 13-17, 1997.

"Heteroatom Stabilized Allylic Cations: Applications to [4+3] Cycloadditions." Michael Harmata and Darin E. Jones. Presented at the Fourth Annual Chemistry Alumni Day, Central Missouri State University, Warrensburg, April 27, 1996.

"A General, Regioselective Approach to the Synthesis of *othro*-Allylanilines." Michael Harmata and Darin E. Jones. Paper # 304 (ORGN) presented at the 210th National Meeting of the American Chemical Society, Chicago, August 20-24, 1995.
"Vinylthionium Ions from Allylic Alcohols. Applications to Intramolecular [4+3] Cycloadditions." Michael Harmata and Darin E. Jones. Paper # 36 (ORGN) presented at the 209th National Meeting of the American Chemical Society, Anaheim, April 2-6, 1995.

"Vinylthionium Ions from Allylic Alcohols. Applications to Intramolecular [4+3] Cycloadditions." Michael Harmata and Darin E. Jones. Presented at the 12th Annual Research and Creative Activities Forum, University of Missouri-Columbia, Columbia, March 5, 1995.

"The Generation of Vinylthionium Ions from Allylic Alcohols: Applications to 4+3 Cycloadditions." Michael Harmata and Darin E. Jones. Paper # 198 (ORGN) presented at the 29th Midwest Regional Meeting of the American Chemical Society, Kansas City, November 2-4, 1994.

"Intramolecular 4+3 Cycloadditions of Ring Fused Allylic Cations." Michael Harmata, Danielle Jansen and Darin E. Jones. Paper # 196 (ORGN) presented at the 29th Midwest Regional Meeting of the American Chemical Society, Kansas City, November 2-4, 1994.
"A Convenient Preparation of 2-Allylanilines." Michael Harmata and Darin E. Jones. Presented at the Third Annual Chemistry Alumni Day, Central Missouri State University, Warrensburg, April 3, 1993.

"A Convenient Preparation of 2-Allylanilines." Michael Harmata and Darin E. Jones. Paper # 535 (ORGN) presented at the 27th Midwest Regional Meeting of the American Chemical Society, Lawrence, November 4-6, 1992.

"Modifications of the Stolle-Becker Synthesis." Robert L. Zey and Darin E. Jones. Paper # 114 (ORGN) presented at the 27th Midwest Regional Meeting of the American Chemical Society, Omaha, November 6-8, 1991.

**POSTERS**

"Discovery and Optimization of Dehydroleucodine Analogues as Anti-leukemia and Cytotoxic Agents." Makynzi Watson-Williams, Brian L. Walker, and Darin E. Jones. Presented at 2019 Annual Biomedical Research Conference for Minority Students, Anaheim, CA, November 13-16.

"Small Molecule Inhibition of Poly(ADP-ribose) Glycohydrolase (PARG)." Brian L. Walker, Lakshitha Balapiti Modarage, Zamal Ahmed, Davide Moiani, John A. Tainer, and Darin E. Jones. Poster #93 presented at 15th Annual MCBIOS Conference, Starkville, MS, March 29-31, 2018.

"Synthesis of Xanthine Derivatives for the inhibition of PARG." Brian L. Walker, Lakshitha Balapiti Modarage, Zamal Ahmed, Davide Moiani, John A. Tainer, and Darin E. Jones. Poster #16 presented at 4th Annual Drug Discovery and Development Colloquium, Little Rock AR, June 15-17, 2017.

"Synthesis of Thiobenzimidazolone Analogues as Inhibitors of Poly(ADP-Ribose) Glycohydrolase (PARG) for Tumor Selective Therapies." Michael Holmes, Zamal Ahmed, Davide Moiani, John A. Tainer, and Darin E. Jones. Poster #15 presented at 4th Annual Drug Discovery and Development Colloquium, Little Rock AR, June 15-17, 2017.

"The Design and Synthesis of Novel Inhibitors of Poly(ADP-ribose) glycohydrolase (PARG)." Sreevishnu Cheerla, In-Kwon Kim, Thomas Ellenberger, Zamal Ahmed, John A. Tainer, Darin E. Jones. Poster #4 presented at 3rd Annual Drug Discovery and Development Colloquium, Birmingham AL, June 28-30, 2016.

"Use of Surface Signature Analysis to Study the Structure Anti-Leukemic Relationship of Sesquiterpene Lactones." Ujwani Nukala, Paola E. Ordonez, Shraddha Thakkar, David Mery, Darin E. Jones, Eloy Rodriguez, Monica L. Guzman, Cesar M. Compadre. Poster # 51

presented at MCBIOS XIII, Memphis TN, March 3-5, 2016.

"BAMS Database-A Database for Bioactive Molecules." Ujwani Nukala, Paola E. Ordonez, Shraddha Thakkar, Darin E. Jones, Monica L. Guzman, Cesar M. Compadre. Poster # 52 presented at MCBIOS XIII, Memphis TN, March 3-5, 2016.

"Surface Signature Analysis of Anti-Leukemic Sesquiterpene Lactones." Paola E. Ordonez, Darin E. Jones, Monica L. Guzman, Cesar M. Compadre. Poster #21 Presented at MCBIOS XII, Little Rock AR, March 12-14, 2015.

"Design and Synthesis of Arimoclomol Analogues for the Treatment of Parkinson's Disease." Sreevishnu Cheerla, Adam J. Crane, Gary L. Jones, Sarah E. Thatcher, Sumit Sakar, and Darin E. Jones. Poster #16 Presented at MCBIOS XII, Little Rock AR, March 12-14, 2015.

"Synthesis and Cytotoxicity of Amino Acid Conjugates of Dehydroleucodine." Fatimah Aldoori, Paola E. Ordonez, Monica Guzman, Cesar Compadre, and Darin E. Jones. Poster #2 Presented at MCBIOS XII, Little Rock AR, March 12-14, 2015.
"Dehydroleucodine, A Sesquiterpene Lactone, Ablates Blast, Progenitor, and Stem Cell Populations in Acute Myelogenous Leukemia." Krishan Sharma, Paola E. Ordonez, David Mery, Gabriela T. Stulp, Darin E. Jones, Cesar M. Compadre, Monica Guzman. Poster #35 Presented at the 56th American Society of Hematology Annual Meeting and Exposition, San Fransico CA, December 6-9, 2014.

"Anti-Leukemic Activity of Dehydroleucodine and its Analogues." Paola E. Ordonez, Krishan Sharma, William F. Reynolds, Raul Enriquez, Darcy C. Burns, Omar Malagon, Darin E. Jones, Monica L. Guzman, and Cesar Compadre. Poster #M1008 Presented at 2014 American Association of Pharmaceutical Scientists Annual Meeting and Exposition, San Diego California, November 2-6, 2014.

"Synthesis and Cytotoxicity of Amino Acid Conjugates of Dehydroleucodine." Fatimah Aldoori, Paola E. Ordonez, Monica Guzman, Victor H. Vazquez-Valadez, Omar Malagon, Cesar Compadre, and Darin E. Jones. Poster #11 Presented at Drug Discovery and Development Colloquium 2014, University of Arkansas Medical Sciences, Little Rock AR, June 20-21, 2014.

"Synthesis of Oxygen Containing Heterocycles by Iron Catalyzed C-H Activation." Sreevishnu Cheerla, Yashraj Gartia, Darin E. Jones, and Anindya Ghosh. Poster #14 Presented at Drug Discovery and Development Colloquium 2014, University of Arkansas Medical Sciences, Little Rock AR, June 20-21, 2014.

"Synthesis and Cytotoxicity of Amino Acid Conjugates of Dehydroleucodine." Fatimah Aldoori, Paola E. Ordonez, Monica Guzman, Victor H. Vazquez-Valadez, Omar Malagon, Cesar Compadre, and Darin E. Jones. Poster #11 Presented at Drug Discovery and Development Colloquium 2014, University of Arkansas Medical Sciences, Little Rock AR, June 20-21, 2014.

"Arimoclomol as a Template for the Discovery of New Therapeutics to Treat Parkinson's Disease." Sreevishnu Cheerla, Adam J. Crane, Gary L. Jones, Sarah E. Thatcher, Sumit Sakar, and Darin E. Jones. Poster #15 Presented at Drug Discovery and Development Colloquium 2014, University of Arkansas Medical Sciences, Little Rock AR, June 20-21, 2014.

"Dehydroleucodine A Potent Anti-Leumkemic Compound and its Amino-Dervatives." Paola E. Ordonez, Krishan Sharma, William F. Reynolds, Raul Enriquez, Darcy C. Burns, Omar Malagon, Darin E. Jones, Monica L. Guzman, and Cesar Compadre. Poster #35 Presented at Drug Discovery and Development Colloquium 2014, University of Arkansas Medical Sciences,

Little Rock AR, June 20-21, 2014.

"Armoclomol as a Template for the Discovery of New Therapeutics to Treat Parkinson's Disease." Sreevishnu Cheerla, Gary L. Jones, Sarah E. Thatcher, Darin E. Jones. Poster #3 presented at the 22nd Mid-South Inorganic Chemist Association Meeting (MICA), Little Rock, AR, October 5, 2013.

"The Sequiterpene Lactone Dehydroleucodine Shows Potent Anti-leukemic Activity." Paola E. Ordóñez, Krishan Sharma, Alberto B. Martin, William F. Reynolds, Raul Enriquez, Omar Malagón, Darin E. Jones, Monica L. Guzmán, and Cesar M. Compadre. Poster #7 presented at the 22nd Mid-South Inorganic Chemist Association Meeting (MICA), Little Rock, AR, October 5, 2013.

"The Sequiterpene Lactone Dehydroleucodine Shows Potent Anti-leukemic Activity." Paola E. Ordóñez, Krishan Sharma, Alberto B. Martin, William F. Reynolds, Raul Enriquez, Omar Malagón, Darin E. Jones, Monica L. Guzmán, and Cesar M. Compadre. Poster #PC 10 presented at 2013 Annual Meeting of the American Society of Pharmacognosy, St. Louis, MO, July 14-17, 2013.

"HGFA Inhibitors of c-Met/RON Kinases Signaling." Manjula Agarwal, Darin E. Jones, Scott Wildman, James W. Janetka. Poster #9650 presented at 102nd Annual Meeting of the American Association for Cancer Research, Orlando, FL, April 2-6, 2011.

"HGFA Inhibitors of c-Met/RON Kinase Activation and Signaling." Manjula Agarwal, Darin E. Jones, Scott Wildman, James W. Janetka. Poster #12 presented at the Washington University School of Medicine Breast Cancer Research Symposium, St. Louis, MO, February 28, 2011.

"Synthesis of a Versatile 2(1H)-Pyrazinone Core for the Preparation of Tissue Factor-Factor VIIa Inhibitors." Darin E. Jones. Presented at the 21st Annual Organic Chemistry Day, University of Missouri-Columbia, April 5, 2008.

"2-Alkenylanilines from Benzothiazines." Michael Harmata; Darin E. Jones; Mehmet Kahraman; Susan E. Weatherwax. Presented at the 10th Annual Organic Chemistry Day, University of Missouri-Columbia, April 26, 1997.

"Reaction of N-phenylsulfonimidoyl Chloride with Trimethylsilylethene: A New Route to 2-Alkenylanilines." Michael Harmata, Darin E. Jones, Mehmet Kahraman and Susan Weatherwax. Poster # 161 (ORGN) presented at the 213th National Meeting of the American Chemical Society, San Francisco, April 13-17, 1997.

"The Metallation of Troeger's Base." Michael Harmata, Kevin W. Carter, Darin E. Jones, Mehmet Kahraman. Poster # B23 Presented at the 9th International Symposium on Molecular Recognition and Inclusion; Lyon, France, September 7-12, 1996.

"Metalation of Troeger's Base." Michael Harmata, Kevin W. Carter, Darin E. Jones and Mehmet Kahraman. Poster # 101 (ORGN) presented at the 212th National Meeting of the American Chemical Society, Orlando, August 25-29, 1996.

"Asymmetric 4+3 Cycloadditions." Michael Harmata and Darin E. Jones. Poster # 17 (ORGN) presented at the 9th Annual Organic Chemistry Day, University of Missouri-Columbia, Columbia, April 27, 1996.

"Vinyl Oxocarbenium Ions in 4+3 Cycloadditions. Examples of Remote Relative Asymmetric Induction." Michael Harmata and Darin E. Jones. Poster # 184 (ORGN) presented at the 29th Midwest Regional Meeting of the American Chemical Society, Kansas City, November 2-4, 1994.

"Sulfonimidoyl Chlorides in Organic Synthesis. An Approach to the Synthesis of Physovenine." Michael Harmata and Darin E. Jones. Poster # 183 (ORGN) presented at the 29th Midwest Regional Meeting of the American Chemical Society, Kansas City, November 2-4, 1994.