

Jie Li

University of South Carolina
Department of Chemistry and Biochemistry
631 Sumter St.
Columbia, SC 29208

Phone: (803) 777-5010
E-mail: li439@mailbox.sc.edu

EDUCATION AND TRAINING

- 2014-2018** **Postdoctoral** training in natural products biosynthesis and biosynthetic engineering, University of California, San Diego, CA
Advisor: Dr. Bradley S. Moore
- 2008-2014** **Ph.D.** in Pharmaceutical Sciences, The Ohio State University, Columbus, OH
Advisor: Dr. A. Douglas Kinghorn
- 2005-2008** **M.S.** in Pharmaceutical Sciences, Sichuan University, Chengdu, China
Advisor: Prof. Hao Zhang
- 2001-2005** **B.S.** in Pharmaceutical Sciences, Sichuan University, Chengdu, China
-

PROFESSIONAL APPOINTMENTS

- 2019-** Assistant Professor, Department of Chemistry and Biochemistry, University of South Carolina, Columbia, SC
-

OTHER EXPERIENCE AND PROFESSIONAL MEMBERSHIPS

- 2022-2025** Editorial Board, RPS Pharmacy & Pharmacology Reports (The Royal Pharmaceutical Society, Oxford University Press)
- 2023-** Faculty Mentor, American Society of Pharmacognosy Student Chapter at USC
- 2022-** Reviewer, NIH Study Section
- 2022-** Reviewer, Deutsche Forschungsgemeinschaft (German Research Foundation)
- 2021-2022** Organizing Committee for 2022 American Society of Pharmacognosy Annual Conference
- 2021-** American Society of Pharmacognosy Younger Members Committee
- 2018-2021** Translator, American Chemical Society C&EN
- 2017** Guest Editor, Oxidative Medicine and Cellular Longevity
- 2022-** Member, Society for Industrial Microbiology and Biotechnology
- 2014-** Member, American Chemical Society
- 2010-** Member, American Society of Pharmacognosy
-

HONORS AND AWARDS

- 2023** NSF CAREER Award
- 2023** NIH R35 MIRA Award
- 2023** Best Abstract Award, 4th Annual National Big Data Health Science Conference
- 2020** VPR Research Initiative Award, University of South Carolina

2020	Two Thumbs Up Award, University of South Carolina
2017	American Society of Pharmacognosy Annual Meeting Travel Award
2013	Nominee for Presidential Fellowship Award, The Ohio State University
2011	Raymond Duskotch Fellowship Award, College of Pharmacy, The Ohio State University
2009	Induction and Lifetime Membership Award, Rho Chi National Academic Honor Society in Pharmacy, USA
2009	Jack L. Beal Fellowship Award, College of Pharmacy, The Ohio State University
2008	Outstanding Graduate Student Award of Sichuan University
2007	Kanghong Fellowship Award for Excellent Graduate Students, Kanghong Pharmaceuticals, Co, Ltd.
2006	Kwang-Hua Scholarship Award for Excellent Graduate Student, Kwang-Hua Education Foundation
2005	Outstanding Undergraduate Student Award of Sichuan University
2004	The Excellent Student Leader Award of Sichuan University
2002-2004	Annual Academic Fellowship Award for Excellent Undergraduate Students of Sichuan University
2002	The Excellent Student Award of Sichuan University

RESEARCH EXPERIENCE

***Assistant Professor, Department of Chemistry and Biochemistry, University of South Carolina, Columbia, SC (2019-)**

- Natural products genome mining, biosynthesis, and drug discovery

***Postdoctoral Scholar, Center for Marine Biotechnology and Biomedicine, University of California, San Diego, CA (2014-2018)**

- Development of self-resistance guided microbial genome mining
- Biosynthesis of thiotetronate antibiotics and colon cancer-associated colibactin genotoxins
- Drug discovery from marine microbial natural products

***Graduate Research Associate, College of Pharmacy, The Ohio State University, Columbus, OH (2008-2013)**

- Natural product-based drug discovery
- Development of dereplication methods for discovery and subsequent preclinical trial of new anti-cancer silvestrols

***Graduate Research Associate, West China School of Pharmacy, Sichuan University, Chengdu, China (2005-2008)**

- Natural product-based drug discovery (isolation, structure elucidation, and biological evaluation of antioxidant and anti-inflammatory compounds)

***Undergraduate Research Assistant, West China School of Pharmacy, Sichuan University, Chengdu, China (2004-2005)**

- *In vivo* pharmacokinetics/pharmacodynamics study of three antibiotics
 - *In vivo* evaluation of anti-diabetic effects of saponins isolated from *Panax notoginseng*
-

RESEARCH FUNDING

Total Extramural Funding at USC: \$3,150,643.00 (as of October 2023)

On-going Research Support

1. NSF CAREER Award (PI: Li)

02/01/23 – 01/31/28

The objective is to investigate sulfur incorporation and modification in natural products biosynthesis through biosynthetic interrogation and enzymatic reconstitution.

Role: PI

2. NIH R35 MIRA Award (PI: Li) 08/01/23 – 07/31/28

The objective is to access and expand untapped natural products chemical diversity through big-data analysis and novel biosynthesis.

Role: PI

3. National Organization for Rare Disorders ACPMP Project (PI: Li) 04/01/22 – 03/31/24

The objective is to evaluate the role of microbial secondary metabolites in rare cancer treatment.

Role: PI

4. USC ASPIRE (PI: Li) 07/01/23 – 09/30/24

The objective is to combine genome mining and bioengineering for the discovery of lanthipeptide antibiotics.

Role: PI

5. USC REMEDY Pilot Grant (PI: Li) 08/01/23 – 07/31/24

The objective is to investigate the protective role of unique human gut microbial lipids in inflammation and obesity.

Role: PI

6. USC Magellan Scholar Award for Undergraduate Research (PI: Li) 05/01/23 – 04/30/24

The objective is to investigate the biosynthesis of novel lasso peptide from *Paenibacillus taiwanensis*.

Role: PI and Mentor

7. NIH 1U01CA272977 (MPI: Hebert, Hofseth, Murphy) 08/16/22 – 07/31/27

The objective is to investigate metabolic dysregulation in obese parent and child dyads and its association with early onset of colorectal cancer.

Role: Co-Investigator

Completed Research Support from Past Three Years

1. NSF OIA-1655740 (MPI: Nagarkatti, Yost, Wang, Bordia, Wheeler) 01/01/19 – 08/31/23

This NSF grant provided startup funding to my lab to discover and synthesize/biosynthesize natural polypeptides for biomaterial and biomedical applications.

Role: Co-Investigator

2. NIH P20GM103641 (MPI: Nagarkatti, Nagarkatti) 06/01/21 – 05/31/23

The objective is to discover inflammation-mediating lipid metabolites from human gut microbiota and elucidate the mechanism(s) of action at the molecular level.

Role: Target Faculty Award PI

3. NIH SCINBRE Student-Initiated Research Projects Award (PI: Older) 09/01/22 – 08/31/23

The objective is to modulate the biosynthesis of pro-inflammatory sulfonolipids produced by human gut microbiota.

Role: Mentor

4. American Society of Pharmacognosy Research Starter Grant (PI: Li) 07/01/22 – 06/30/23

The objective is to discover compounds from tumor-associated bacteria and evaluate their potential as lead compounds against specific tumor types.

Role: PI

5. USC Magellan Scholar Award for Undergraduate Research (PI: Li) 06/01/22 – 05/31/23

The objective is to investigate the bioactivity of double chain and single chain sulfonolipids.

Role: PI and Mentor

6. USC Magellan Journey Award for Undergraduate Research (PI: Li) 06/01/22 – 05/31/23

The objective is to discover bioactive microbial lipids and peptides and to study their biosynthesis.

Role: PI and Mentor

7. CAS Undergraduate Research Enhancement Program (PI: Li) 06/19 – 05/20, 07/21 – 06/22, 01/23 – 05/23

The objective is discovery and biosynthesis of biologically active microbial lipids and peptides.

Role: PI and Mentor

8. SC Honors College Undergraduate Research Award (PI: Li) 01/01/20 – 04/30/23

The objective is discovery and biosynthesis of biologically active natural products.

Role: PI and Mentor

9. NIH P20GM109091 (PI: Roninson) 05/01/21 – 04/30/22

A subaward of the NIH Center for Targeted Therapeutics grant to discover potential SARS-COV-2 main protease inhibitors through high-throughput screening and biochemical characterization.

Role: Subaward PI

10. USC ASPIRE-1 for Postdoctoral Research (PI: Xue) 07/01/20 – 06/30/21

The objective is to discover antimicrobial lasso peptides from uncultivable bacteria.

Role: Mentor

11. USC VPR Research Initiative (PI: Li) 06/01/20 – 05/31/21

The objective is to discover potential SARS-CoV-2 main protease inhibitors through virtual screening and a high-throughput physical bench screening of an in-house natural products library.

Role: PI

12. NIH P20GM103641 (MPI: Nagarkatti, Nagarkatti) 06/01/19 – 05/31/20

A subaward of the NIH Center for Dietary Supplements and Inflammation grant to discover inflammation-modulating polypeptides from human microbiota.

Role: Subaward PI

TEACHING EXPERIENCE

***Assistant Professor, Department of Chemistry and Biochemistry, University of South Carolina, Columbia, SC**

- Biochemistry I (Chem 555/Biol 545)
- Special Topics in Bioorganic and Medicinal Chemistry (Chem 759/739)
- Organic Chemistry I (Chem 333)

***Graduate Teaching Associate, College of Pharmacy, The Ohio State University, Columbus, OH**

- Biomedical Chemistry II (Pharmacy 4110, Spring Semester, 2013)
- Dietary Supplements and Herbal Products (Pharmacy 7110, Fall Semesters, 2012 and 2013)

***Graduate Teaching Associate, West China School of Pharmacy, Sichuan University, Chengdu, China**

- Pharmacognosy (Spring Semester, 2007)
-

RESEARCH MENTORSHIP

***USC Postdoctoral and Visiting Scholars Mentoring**

- Zhuo Shang, Haiyan Tian, Ziwei Li, Dan Xue, Lukuan Hou, Yanping Qiu, and Ying Li

***USC Ph.D. Students Advisor**

- Ethan Older (2019 –), Zachary Ferris (2019 – 2023), Joshua Madu (2021 –), Michael Madden (2023 –), and Xiaoying

Lian (2023 –)

***USC Ph.D. Students Dissertation Committee**

– Jingyu Fan (2019 –), Leman Kurnaz (2019 – 2023), Enis Sanchez (2020 –), James Roby (2021 –), Ricardo Hernandez Arriaza (2021 –), Sasimonthakan Tan-Arsuwongkul (2021 –), Cailin McCracken (2022 –), Zachary Stryker (2022 –), and Ruize Zhang (2023 –)

***USC Undergraduate Research Mentoring**

– Davis Hobbs, Rhett Visintin, and James Roby (2019 – 2020)
– Nolan Dittenhauser (2019 – 2021)
– Michael Madden and Emily Quinn (2020 – 2023)
– Narinder Singh and Ana Dorado (2021 – 2022)
– Kyle Peter, Reagan Borland, Dora Lee, and Sarah Zaw (2021 – 2023)
– Conor Pulliam (2021 –)
– Josie Sobecks, Peyton Parker, Anna Goshow, Laura Maybach, and Christian Nagorite (2022 – 2023)
– Andrew Campbell (2022 –)
– Sarah Tran, Savannah Robinson, Emily Long, and Cole Espinosa (2023 –)

***UCSD Undergraduate Research Mentoring**

– Marvin Chao (Jun 2017 – Oct 2018), Ge Yang (Apr 2018 – Oct 2018), and Ethan Older (Jun 2017 – Dec 2017), University of California, San Diego, CA

***Summer Research Mentoring at USC**

South Carolina Governor's School for Science & Mathematics SPIR program:

– Arija Makela-Harms, Kaylin Smith, Willow Curtis, Tiffany Felix, and Ananya Hota (Summer 2020)
– Scout Hamrick, Daniela Cawley, Ryu Kim, and Dominique Smith (Summer 2021)
– Rachel Zheng and Andrew Witt (Summer 2022)
– Ella Suarez, Malyawan Ilangeswaran, Sarah Modugu, and Alisha Charpe (Summer 2023)

American Chemical Society SEED program:

– Ibrahim Gokturk (Summers 2022 and 2023)

***High School Science Project Advisor**

– Alexandria Malilay; Nov 2016 – Apr 2017, E8 Thousand Oaks High School, San Diego, CA
– Eileen Chen; Oct 2019 – Jan 2020 and Oct 2020 – Jan 2021, Spring Valley High School, Columbia, SC
– Cathy Tang; Oct 2020 – December 2021, Spring Valley High School, Columbia, SC

***International Exchange Student Technical Training and Research Mentoring**

– Graduate student Jan Wohlfarth from Germany; Apr 2015 – Aug 2015, University of California, San Diego, CA
– Graduate student Ronald Romuald B. Vougat Ngom from Cameroon; Dec 2013 – Feb 2014, The Ohio State University, Columbus, OH

PUBLICATIONS (PEER-REVIEWED RESEARCH ARTICLES)

At USC:

1. Older, E. A.; Zhang, J.; Ferris, Z. E.; Xue, D.; Zhong, Z.; Mitchell, M.; Madden, M.; Wang, Y.; Chen, H.; Nagarkatti, P.; Nagarkatti, M.; Fan, D.; Ellermann, M.; Li, Y.; **Li, J.*** Biosynthetic enzyme-guided disease correlation connects gut microbial metabolites sulfonolipids to inflammatory bowel disease involving TLR4 signaling. *bioRxiv*, **2023**, DOI: <https://doi.org/10.1101/2023.03.16.533047>.

2. Xue, D.; Shang, Z.; Older, E. A.; Zhong, Z.; Pulliam, C.; Peter, K.; Nagarkatti, P.; Nagarkatti, M.; Li, Y.; **Li, J.*** Refactoring and heterologous expression of class III lanthipeptide biosynthetic gene clusters lead to the discovery of *N,N*-dimethylated lantibiotics from Firmicutes. *ACS Chemical Biology*, **2023**, *18*, 508-517.
3. Liang, H.; Song, Z.; Zhong, Z.; Zhang, D.; Yang, W.; Zhou, L.; Older, E. A.; **Li, J.**; Wang, H.; Zeng, Z.; Li, Y. Genomic and metabolic analyses reveal antagonistic lanthipeptides in archaea. *Microbiome*, **2023**, *11*, 74.
4. Xue, D.; Older, E. A.; Zhong, Z.; Shang, Z.; Chen, N.; Dittenhauser, N.; Hou, L.; Cai, P.; Walla, M.; Dong, S.; Tang, X.; Chen, H.; Nagarkatti, P.; Nagarkatti, M.; Li, Y.; **Li, J.*** Correlational networking guides the discovery of unclustered lanthipeptide protease-encoding genes. *Nature Communications*, **2022**, *13*, 1647, DOI: 10.1038/s41467-022-29325-1.
5. Hou, L.; Tian, H.; Wang, L.; Ferris, Z. E.; Wang, J.; Cai, M.; Older, E. A.; Raja, M.; Xue, D.; Sun, W.; Nagarkatti, P.; Nagarkatti, M.; Chen, H.; Fan, D.; Tang X.; **Li, J.*** Identification and biosynthesis of pro-inflammatory sulfonolipids from an opportunistic pathogen *Chryseobacterium gleum*. *ACS Chemical Biology*, **2022**, *17*, 1197-1206, DOI: 10.1021/acscchembio.2c00141.
6. Bose, D.; Chatterjee, S.; Older, E. A.; Seth, R.; Lloyd, P. J.; Carlson, J.; Sullivan, K.; Saha, P.; Decho, A.; Mondal, A.; Klimas, N.; Lasley, S.; **Li, J.**; Chatterjee, S. Host gut resistome in Gulf War chronic multisymptom illness correlates with persistent inflammation. *Communications Biology*, **2022**, *5*, 552.
7. Soni, M.; Saatci, O.; Gupta, G.; Patel, Y.; Raja, M.; **Li, J.**; Liu, X.; Xu, P.; Wang, H.; Fan, D.; Sahin, O.; Chen, H. miR-489 confines uncontrolled estrogen signaling through a negative feedback mechanism and regulates tamoxifen resistance in breast cancer. *International Journal of Molecular Sciences*, **2022**, *23*, 8086.
8. Tang, C.; Li, Y.; Kurnaz, L.; **Li, J.*** Development of eco-friendly antifungal coatings by curing natural seed oils on wood. *Progress in Organic Coatings*, **2021**, *161*, 106512.
9. Hou, L.; Li, Y.; Wu, Q.; Li, M.; Tang, X.; Nagarkatti, P.; Nagarkatti, M.; Liu, Y.; Li, L.; Fan, D.; Bugni, T.; Shang, Z.; **Li, J.*** Discovery of anti-infective adipostatins through bioactivity-guided isolation and heterologous expression of a type III polyketide synthase. *Bioorganic Chemistry*, **2021**, *112*, 104925.
10. Shang, Z.; Ferris, Z.; Sweeney, D.; Chase, A.; Yuan, C.; Hui, Y.; Hou, L.; Older, E.; Xue, D.; Tang, X.; Zhang, W.; Nagarkatti, P.; Nagarkatti, M.; Testerman, T.; Jensen, P.; **Li, J.*** Grincamycins P-T: rearranged angucycline glycosides from marine sediment-derived *Streptomyces* sp. CNZ-748 inhibit cell lines of the rare cancer pseudomyxoma peritonei. *Journal of Natural Products*, **2021**, *84*, 1638-1648.
11. Zhou, S.; Quan, J.; Li, Z.; Ye, G.; Shang, Z.; Chen, C.; Wang, L.; Li, X.; Zhang, X.; **Li, J.**; Liu, J.; Tian, H. Bufadienolides from the eggs of toad *Bufo bufo gargarizans* and their anti-melanoma activities. *Journal of Natural Products*, **2021**, *84*, 1425-1433.
12. Zhang, Z.; Wang, X.; Wei, X.; Zheng, S.; Lenhart, B.; Xu, P.; **Li, J.**; Pan, J.; Albrecht, H.; Liu, C. Multiplex quantitative detection of SARS-CoV-2 specific IgG and IgM antibodies based on DNA-assisted nanopore sensing. *Biosensors and Bioelectronics*, **2021**, *181*, 113134.
13. Zhong, Z.; He, B.; **Li, J.**; Li, Y. X. Challenges and advances in genome mining of ribosomally synthesized and post-translationally modified peptides (RiPPs). *Synthetic and Systems Biotechnology*, **2020**, *5*, 155-172.
14. Li, W.; Li, L.; Zhang, C.; Cai, Y.; Gao, Q.; Wang, F.; Cao, Y.; Lin, J.; **Li, J.**; Shang, Z.; Lin W. Investigations into the antibacterial mechanism of action of viridicatumtoxins. *ACS Infectious Diseases*, **2020**, *6*, 1759-1769.
15. Wei, X.; Feng, C.; Li, X. H.; Mao, X. X.; Luo, H. B.; Zhang, D. M.; Rong, L.; Xie, Z. Y.; Yu, X.; **Li, J.**; Ye, W. C.; Huang, X. J.; Zhang C. X. Enantiomeric polyketides from the starfish-derived symbiotic fungus *Penicillium* sp. GGF16-1-2. *Chemistry & Biodiversity*, **2019**, *16*, e1900052.
16. Rothe, M. L.; **Li, J.**; Garibay, E.; Moore, B. S.; McKinnie, S. M. K. Synthesis, bioactivity and enzymatic modification of a focused compound library of thiotetromycin C-5 derivatives. *Organic & Biomolecular Chemistry*, **2019**, *17*,

Prior to USC:

17. Li, Z.; **Li, J.**; Cai, W.; Lai, J.; McKinnie, S. M. K.; Zhang, W-P.; Moore, B. S.; Zhang, W.; Qian, P. Macrocyclic colibactin induces DNA double-strand breaks via copper-mediated oxidative cleavage. *Nature Chemistry*, **2019**, *11*, 880-889 (**featured as the front cover**).
18. Bauman, K. D.; **Li, J.**; Murata, K.; Mantovani, S. M.; Dahesh, S.; Nizet, V.; Luhavaya, H.; Moore, B. S. Refactoring the cryptic streptophenazine biosynthetic gene cluster unites phenazine, polyketide, and nonribosomal peptide biochemistry. *Cell Chemical Biology*, **2019**, *26*, 724-736.
19. Gauglitz, J. M.; ...**Li, J.**...Dorrestein, P. C. Untargeted mass spectrometry-based metabolomics approach unveils molecular changes in raw and processed foods and beverages. *Food Chemistry*, **2020**, *302*, 125290.
20. Reynolds, K. A.; Luhavaya, H.; **Li, J.**; Dahesh, S.; Nizet, V.; Yamanaka, K.; Moore, B. S. Isolation and structure elucidation of lipopeptide antibiotic taromycin B from the activated taromycin biosynthetic gene cluster. *The Journal of Antibiotics*, **2018**, *71*, 333-338. (special issue in honor of Prof. K. C. Nicolaou)
21. **Li, J.**[#]; Tang, X.[#]; Awakawa, T.; Moore, B. S. Enzymatic C–H oxidation-amidation cascade in the production of natural and unnatural thiotetronate antibiotics with potentiated bioactivity. *Angewandte Chemie International Edition*, **2017**, *56*, 12234-12239. (**# equal contribution**)
22. **Li, J.**; Yuan, C.; Pan, L.; Benatrehina, P. A.; Chai, H.; Keller, W. J.; Naman, C. B.; Kinghorn, A. D. Bioassay-guided isolation of antioxidant and cytoprotective constituents from a maqui berry (*Aristotelia chilensis*) dietary supplement ingredient as markers for qualitative and quantitative analysis. *Journal of Agricultural and Food Chemistry*, **2017**, *65*, 8634-8642.
23. Tang, X.[#]; **Li, J.**[#]; Moore, B. S. Minimization of the thiolactomycin biosynthetic pathway reveals that the cytochrome P450 enzyme TlmF is required for five-membered thiolactone ring formation. *Chembiochem*, **2017**, *18*, 1072-1076. (**# equal contribution; featured as the back cover**)
24. Wang, Q.; **Li, J.**; Li, X.; Tao, W.; Ding, L.; Luo, P.; Qing, L. An efficient direct competitive nano-ELISA for residual BSA determination in vaccines. *Analytical and Bioanalytical Chemistry*, **2017**, *409*, 4607-4614.
25. Xie, J.; **Li, J.**; Lian, J.; Luo, P.; Qing, L.; Ding, L. Determination of contents of catechins in Oolong teas by quantitative analysis of multi-components via a single marker (QAMS) method. *Food Analytical Methods*, **2017**, *10*, 363-368.
26. Li, Z.[#]; **Li, J.**[#]; Gu, J.; Lai, J.; Duggan, B. M.; Zhang, W.; Li, Z.; Li, Y.; Tong, R.; Xu, Y.; Lin, D.; Moore, B. S.; Qian, P. Divergent biosynthesis yields a cytotoxic aminomalonate-containing precolibactin. *Nature Chemical Biology*, **2016**, *12*, 773-775. (**# equal contribution; highlighted as “NATURAL PRODUCTS, to skip or not to skip” in the front cover**)
27. Yu, S.; Zhu, L.; Xiao, Z.; Shen, J.; **Li, J.**; Lai, H.; Li, J.; Chen, H.; Zhao, Z.; Yi, T. Rapid fingerprint analysis of Flos Carthami by ultra-performance liquid chromatography and similarity evaluation. *Journal of Chromatographic Science*, **2016**, *54*, 1619-1624.
28. Tang, X.[#]; **Li, J.**[#]; Millán-Aguíñaga, N.; Zhang, J. J.; O'Neill, E. C.; Ugalde, J. A.; Jensen, P. R.; Mantovani, S. M.; Moore, B. S. Identification of thiotetronic acid antibiotic biosynthetic pathways by target-directed genome mining. *ACS Chemical Biology*, **2015**, *10*, 2841-2849. (**# equal contribution; featured in “Introducing Our Authors” in the same issue.**)
29. Naman, C. B.[#]; **Li, J.**[#]; Moser, A.; Hendrycks, J. M.; Benatrehina, P. A.; Chai, H.; Yuan, C.; Keller, W. J.; Kinghorn, A. D. Computer-assisted structure elucidation of black chokeberry (*Aronia melanocarpa*) fruit juice isolates with a new fused pentacyclic flavonoid skeleton. *Organic Letters*, **2015**, *17*, 2988-2991. (**# equal contribution**)
30. Duncan, K.R.; Crüsemann, M.; Lechner, A.; Sarkar, A.; **Li, J.**; Ziemert, N.; Wang, M.; Bandeira, N.; Moore, B. S.;

- Dorrestein, P. C.; Jensen, P. R. Molecular networking and pattern-based genome mining improves discovery of biosynthetic gene clusters and their products from *Salinispora* species. *Chemistry & Biology*, **2015**, *22*, 460-471.
31. Agarwal, V.; **Li, J.**; Rahman, I.; Borgen, M.; Aluwihare, L. I.; Biggs, J. S.; Paul, V. J.; Moore, B. S. Complexity of naturally produced polybrominated diphenyl ethers revealed via mass spectrometry. *Environmental Science & Technology*, **2015**, *49*, 1339-1346.
 32. Rakotondraibe, L. H.; Rasolomampianina, R.; Park, H. Y.; **Li, J.**; Slebodnick, C.; Brodie, P. J.; Blasiak, L. C.; Hill, R. T.; Andriambelason, O.; Shen, Y.; Suh, E. M.; Cassera, M. B.; Rejo-Fienena, F.; Kingston, D. G. I. Antiproliferative and antiplasmodial compounds from selected *Streptomyces* species. *Bioorganic & Medicinal Chemistry Letters*, **2015**, *25*, 5646-5649.
 33. Yi, T.; Zhu, L.; Peng, W. L.; He, X. C.; Chen, H. L.; **Li, J.**; Yu, T.; Liang, Z. T.; Zhao, Z. Z.; Chen, H. B. Comparison of ten major constituents in seven types of processed tea using HPLC-DAD-MS followed by principal component and hierarchical cluster analysis. *LWT - Food Science and Technology*, **2015**, *62*, 194-201.
 34. **Li, J.**; Pan, L.; Fletcher, J. N.; Lv, W.; Deng, Y.; Vincent, M. A.; Slack, J. P.; McCluskey, T. S.; Jia, Z.; Cushman, M.; Kinghorn, A. D. In vitro evaluation of potential bitterness-masking terpenoids from the Canada Goldenrod (*Solidago canadensis*). *Journal of Natural Products*, **2014**, *77*, 1739-1743. (**Highlighted in “Labdane diterpenoid found in goldenrod masks bitterness”, Science & Technology Concentrates, Chemical and Engineering News, July 21, 2014, 92, 29.**)
 35. **Li, J.**; Pan, L.; Naman, C. B.; Deng, Y.; Chai, H.; Keller, W. J.; Kinghorn, A. D. Pyrrole alkaloids with potential cancer chemopreventive activity isolated from a Goji Berry-contaminated commercial sample of African Mango. *Journal of Agricultural and Food Chemistry*, **2014**, *62*, 5054-5060.
 36. Bueno-Pérez, L.; Pan, L.; Muñoz-Acuña, U.; **Li, J.**; Chai, H.; Gallucci, J. C.; Ninh, T. N.; Carcache de Blanco, E. J.; Soejarto, D. D.; Kinghorn, A. D. Caeruleanone A, a rotenoid with a new arrangement of the D-ring from the fruits of *Millettia caerulea*. *Organic Letters*, **2014**, *16*, 1462-1465.
 37. **Li, J.**; Pan, L.; Deng, Y.; Muñoz-Acuña, U.; Yuan, C.; Lai, H.; Chai, H.; Chagwedera, T. E.; Farnsworth, N. R.; Carcache de Blanco, E. J.; Li, C.; Soejarto, D. D.; Kinghorn, A. D. Sphenostylisins A-K, bioactive modified isoflavonoid constituents of the root bark of *Sphenostylis marginata* ssp. *erecta*. *The Journal of Organic Chemistry*, **2013**, *78*, 10166-10177.
 38. Bueno-Pérez, L.; **Li, J.**; Lantvit, D. D.; Pan, L.; Ninh, T. N.; Chai, H.; Soejarto, D. D.; Swanson, S. M.; Lucas, D. M.; Kinghorn, A. D. Bioactive Constituents of *Indigofera spicata*. *Journal of Natural Products*, **2013**, *76*, 1498-1504.
 39. Chitchumroonchokchai, C.; Thomas-Ahner, J. M.; **Li, J.**; Riedl, K. M.; Nontakham, J.; Suksumrarn, S.; Clinton, S. K.; Kinghorn, A. D.; Failla, F. L. Anti-tumorigenicity of dietary α -mangostin in an HT-29 colon cell xenograft model and the tissue distribution of xanthenes and their phase II metabolites. *Molecular Nutrition & Food Research*, **2013**, *57*, 203-211.
 40. Pan, L.; Muñoz-Acuña, U.; **Li, J.**; Jena, N.; Ninh, T. N.; Pannell, C. M.; Chai, H.; Fuchs, J. R.; Carcache de Blanco, E. J.; Soejarto, D. D.; Kinghorn, A. D. Bioactive flavaglines and other constituents isolated from *Aglaia perviridis*. *Journal of Natural Products*, **2013**, *76*, 394-404.
 41. **Li, J.**; Deng, Y.; Yuan, C.; Pan, L.; Chai, H.; Keller, W. J.; Kinghorn, A. D. Antioxidant and quinone reductase-inducing constituents of black chokeberry (*Aronia melanocarpa*) fruits. *Journal of Agricultural and Food Chemistry*, **2012**, *60*, 11551-11559.
 42. Zhang, Z.; **Li, J.**; An, J.; Wang, J.; Zhang, H. A new species of *Erigeron* (Asteraceae) from Sichuan, China. *NOVON*, **2010**, *20*, 117-119.
 43. Xue, D.; Yin, H.; **Li, J.**; Liu, X.; Zhang, H.; Peng, C. Application of microscopy in authentication and distinguishing of 11 *Paris* species in West Sichuan. *Microscopy Research and Technique*, **2009**, *72*, 744-754.

44. An, J.; **Li, J.**; Wang, J.-G.; Zhang, Z.-F.; Chen, C.; Zhang, H. Authenticating and distinguishing the eight species of traditional Tibetan medicine “Meiduoluomi” by microscopic technique. *Microscopy Research and Technique*, **2009**, *72*, 727-736.
 45. **Li, J.**; Yi, T.; Lai, H.; Xue, D.; Jiang, H.; Peng, H.; Zhang, H. Application of microscopy in authentication of traditional Tibetan medicinal plant *Halenia elliptica*. *Microscopy Research and Technique*, **2008**, *71*, 11-19.
 46. Chen, Z.; **Li, J.**; Liu, J.; Zhao, Y.; Zhang, P.; Zhang, M.; Zhang, L. Saponins isolated from the root of *Panax notoginseng* showed significant anti-diabetic effects in KK-Ay mice. *The American Journal of Chinese Medicine*, **2008**, *36*, 939-951.
 47. Peng, H.; Zhang, H.; Chen, C.; Kuang, J.; Jiang, H.; **Li, J.**; Wang, J. Determination of oleuropein in different kinds of olive leaves by RP-HPLC. *West China Journal of Pharmaceutical Sciences*. **2008**, *23*, 199-200.
 48. Zhang, M.; Chen, Z.; **Li, J.**; Yang, C.; Xie, Z.; Chen, G. Hemostatic effect and biocompatibility of RT-Q medical biomembrane. *Journal of Clinical Rehabilitative Tissue Engineering Research*, **2008**, *12*, 175-179.
 49. Zhang, Z.; Luo, P.; **Li, J.**; Yi, T.; Wang, J.; An, J.; Zhang, H. Comparison of anti-inflammatory activities of three medicinal plants known as “Meiduoluomi” in Tibetan folk medicine. *Yakugaku Zasshi (Journal of the Pharmaceutical Society of Japan)*, **2008**, *128*, 805-810.
 50. Wang, J.; Zhang, Z.; **Li, J.**; Jiang, H.; Peng, H.; Zhang, H. Chemical constituents from *Erigeron multiradiatus* extracted with ethyl acetate. *West China Journal of Pharmaceutical Sciences*, **2008**, *23*, 255-257.
 51. Jiang, H.; Zhang, H.; Peng, H.; **Li, J.**; Wang, J.; Xiao, C. The geographic distribution and plants characteristics of the Tibetan medicine Dida’s original plants in Sichuan. *West China Journal of Pharmaceutical Sciences*, **2008**, *23*, 81-83.
-

EDITORIALS/REVIEWS

1. McAlpine, J. B.; Chen, S. N.; Kutateladze, A.; MacMillan, J. B.; Appendino, G.; Barison, A.; Beniddir, M. A.; Biavatti, M. W.; Bluml, S.; Boufridi, A.; Butler, M. S.; Capon, R. J.; Choi, Y. H.; Coppage, D.; Crews, P.; Crimmins, M. T.; Csete, M.; Dewapriya, P.; Egan, J. M.; Garson, M. J.; Genta-Jouve, G.; Gerwick, W. H.; Gross, H.; Harper, M. K.; Hermanto, P.; Hook, J. M.; Hunter, L.; Jeannerat, D.; Ji, N. Y.; Johnson, T. A.; Kingston, D. G. I.; Koshino, H.; Lee, H. W.; Lewin, G.; **Li, J.**; Linington, R. G.; Liu, M.; McPhail, K. L.; Molinski, T. F.; Moore, B. S.; Nam, J. W.; Neupane, R. P.; Niemitz, M.; Nuzillard, J. M.; Oberlies, N. H.; Ocampos, F. M. M.; Pan, G.; Quinn, R. J.; Reddy, D. S.; Renault, J. H.; Rivera-Chávez, J.; Robien, W.; Saunders, C. M.; Schmidt, T. J.; Seger, C.; Shen, B.; Steinbeck, C.; Stuppner, H.; Sturm, S.; Tagliatalata-Scafati, O.; Tantilillo, D. J.; Verpoorte, R.; Wang, B. G.; Williams, C. M.; Williams, P. G.; Wist, J.; Yue, J. M.; Zhang, C.; Xu, Z.; Simmler, C.; Lankin, D. C.; Bisson, J.; Pauli, G. F. The Value of universally available raw NMR data for transparency, reproducibility, and integrity in natural product research. *Natural Product Reports*, **2019**, *36*, 35-107.
 2. Benatrehina, P. A.; Pan, L.; Naman, C. B.; **Li, J.**; Kinghorn, A. D. Usage, biological activity, and safety of selected botanical dietary supplements consumed in the United States. *Journal of Traditional and Complementary Medicine*, **2018**, *8*, 267-277.
 3. **Li, J.***; Dastmalchi, K.; Qing, L.; Luo, P. Discovery and biological evaluation of natural phenolic antioxidants. *Oxidative Medicine and Cellular Longevity*, **2017**, doi.org/10.1155/2017/2649129.
 4. **Li, J.**; Lai, H.; Hao, J.; Zhang X. Study progress of PK/PD research of Traditional Chinese Medicine. *Asia-Pacific Traditional Medicine*, **2008**, *4*, 68-70.
-

BOOK CHAPTERS

1. **Li, J.**; Benatrehina, P. A.; Rague, A. L.; Pan, L.; Kinghorn, A. D.; Naman, C. B. Isolation and analysis of antioxidant phytochemicals from black chokeberry, maqui, and goji berry dietary supplements. In *ACS Symposium Series* -

- Advances in Plant Phenolics: From Chemistry to Human Health*; Jayaprakasha, G.; Patil, B.; Gattuso, G. Ed.; American Chemical Society, **2018**; pp 3-19, DOI: 10.1021/bk-2018-1286.ch001. (invited peer-reviewed eBooks chapter).
2. Kinghorn, A. D.; Ren, Y.; **Li, J.**; Sung, C. K. Cancer chemopreventive activity of higher plants. In *Plant Bioactives and Drug Discovery: Principles, Practice, and Perspectives*; Cechinel-Filho, V. Ed.; John Wiley & Sons, Inc.: Hoboken, **2012**; pp 337-358.
-

ORAL PRESENTATIONS

1. **Li, J.*** Leveraging human-microbiota interactions for discovery of anti-inflammatory metabolites. *Southeast Regional IDeA Conference*, Columbia, SC, September 15-17, **2023**.
2. **Li, J.*** Biosynthetic enzyme-guided disease correlation connects gut microbial metabolites sulfonolipids to inflammatory bowel disease involving TLR4 signaling. *73rd Annual Meeting of the Society for Industrial Microbiology and Biotechnology*, Minneapolis, MN, July 30-August 2, **2023**.
3. Xue, D.; **Li, J.*** Synergistic integration of high-throughput bioactivity screening and metabolomics analysis for natural products discovery targeting a rare and severe cancer. *64th Annual Meeting of the American Society of Pharmacognosy*, Rockville, MD, July 22-26, **2023**.
4. **Li, J.*** Planning for a competitive research program (panel). *2023 SCINBRE Academic Leadership and Career Development Workshop*, Columbia, SC, June 16, **2023**.
5. **Li, J.*** Sulfonolipids: human microbial metabolites with dual activity and their implications in inflammatory diseases. *NIH COBRE Center for Dietary Supplements and Inflammation Annual Meeting*, Columbia, SC, March 2, **2023**.
6. **Li, J.*** Big data-based genome mining for drug discovery. *4th Annual National Big Data Health Science Conference*, Columbia, SC, February 10-11, **2023**.
7. Xue, D.; **Li, J.*** Refactoring and heterologous expression of class III lanthipeptide biosynthetic gene clusters lead to the discovery of *N,N*-dimethylated lantibiotics from Firmicutes. *American Society of Pharmacognosy Younger Members Symposium*, virtual meeting, February 6, **2023**.
8. **Li, J.*** Discovery of novel SARS-CoV-2 main protease inhibitors. *The National IDeA Symposium of Biomedical Research Excellence*, virtual meeting, December 12, **2022**.
9. **Li, J.*** Leveraging host-microbe interactions for discovery of functional metabolites. *72nd Annual Meeting of the Society for Industrial Microbiology and Biotechnology*, San Francisco, CA, August 7-10, **2022**.
10. **Li, J.*** Correlational networking guides the discovery of “hidden” natural product biosynthetic enzymes. *63rd Annual Meeting of the American Society of Pharmacognosy*, Charleston, SC, July 23-28, **2022**.
11. Older, E. A.; **Li, J.*** Sulfonolipids: human microbial metabolites with unique dual activity in mediating inflammation. *63rd Annual Meeting of the American Society of Pharmacognosy*, Charleston, SC, July 23-28, **2022**. (**Graduate Research Award presentation**)
12. **Li, J.*** Correlational networking guides the discovery of RiPPs peptide maturation. *MADE in SC EARB Meeting*, Columbia, SC, April 21, **2022**.
13. **Li, J.*** Discovery of novel SARS-CoV-2 main protease inhibitors. *NIH COBRE Center for Targeted Therapeutics EAC Meeting*, virtual meeting, April 1, **2022**.
14. **Li, J.*** Gut microbial metabolites sulfonolipids mediate high fat diet-induced inflammation. *NIH COBRE Center for Dietary Supplements and Inflammation Annual Meeting*, virtual meeting, March 8, **2022**.
15. **Li, J.*** Discovery of novel SARS-CoV-2 main protease inhibitors. *Symposium of NIH COBRE Center for Targeted Therapeutics*, Columbia, SC, December 7-8, **2021**.
16. **Li, J.*** Discovery of novel SARS-CoV-2 main protease inhibitors. *NIH COBRE Center for Targeted Therapeutics*

Annual Meeting, virtual meeting, April 2, **2021**.

17. **Li, J.*** Genome mining and biochemical discovery of inflammation-mediating sulfonolipids from human microbiome. *NIH COBRE Center for Dietary Supplements and Inflammation Annual Meeting*, virtual meeting, March 3, **2021**.
 18. **Li, J.*** Mining microbial metabolites: connecting to inflammation and diverse biological activities. *NIH COBRE Center for Dietary Supplements and Inflammation Annual Meeting*, Columbia, SC, February 12, **2020**.
 19. **Li, J.**; Moore, B. S. Discovery and biosynthetic study of acylsulfenic acid natural products. *2nd U.S.-China Summit on Natural Products Sciences*, San Diego, CA, August 12-16, **2018**.
 20. **Li, J.**; Moore, B. S. Mining microbial genomes for drug discovery. *Lecture at the C2T2 San Diego Chinese Postdoc Union*, San Diego, CA, July 19, **2018**.
 21. **Li, J.**; Moore, B. S. Mining microbial genomes to improve human health. *Lecture at the San Diego Wet Lab Citizen Science Community*, San Diego, CA, July 3, **2018**.
 22. **Li, J.**; Tang, X.; Awakawa, T.; Moore, B. S. Production of new thiotetronate antibiotics with potentiated bioactivity by enzymatic tandem carboxylation-amidation. *58th Annual Meeting of the American Society of Pharmacognosy*, Portland, OR, July 29-August 2, **2017**.
 23. **Li, J.**; Tang, X.; Mckinnie, S.; Awakawa, T.; Moore, B. S. Enzymatic tandem carboxylation-amidation as a bioactivity-potentiating strategy in the production of natural and unnatural thiolactomycin antibiotics. *253rd American Chemical Society National Meeting – Division of Medicinal Chemistry*, San Francisco, CA, April 2-6, **2017**.
 24. Naman, C. B.[#]; **Li, J.**[#]; Benatrehina, P. A.; Pan, L.; Keller, W. J.; Kinghorn, A. D. Potential cancer chemopreventive activity of fruit phytochemicals from black chokeberry, goji, and maqui berry botanical dietary supplements. *253rd American Chemical Society National Meeting – Division of Agricultural and Food Chemistry*, San Francisco, CA, April 2-6, **2017**. (# equal contribution)
 25. Naman, C. B.[#]; **Li, J.**[#]; Deng, Y.; Keller, W. J.; Kinghorn, A. D. Qualitative and quantitative analysis of antioxidant and quinone reductase-inducing phytochemicals present in a Maqui berry (*Aristotelia chilensis*) botanical dietary supplement. *252nd American Chemical Society National Meeting – Division of Agricultural and Food Chemistry*, Philadelphia, PA, August 21-25, **2016**. (# equal contribution)
 26. **Li, J.**; Tang, X.; Zhang, J. J. TARgeting natural product pathways in the genomics era. *San Diego Natural Products Affinity Group (NPAG) Meeting*, San Diego, CA, August 14, **2015**.
 27. **Li, J.**; Tang, X.; O'Neill, E. C.; Zhang, J. J.; Mantovani, S. M.; Moore, B. S. Discovery of fatty acid synthase inhibitors and their biosynthetic pathways by a novel target-directed genome mining strategy. *56th Annual Meeting of the American Society of Pharmacognosy*, Copper Mountain, CO, July 25-29, **2015**. (Podium and Poster Presentations)
 28. **Li, J.**; Pan, L.; Deng, Y.; Yuan, C.; Chai, H.; Kinghorn, A. D. Sphenostylisins A-K: NF-κB inhibitors, quinone reductase inducers, and antioxidants from *Sphenostylis marginata* ssp. *erecta*. *46th Annual Mid-Atlantic Graduate Student Symposium*, Columbus, OH, June 9-11, **2013**.
 29. Kinghorn, A. D.; **Li, J.**; Chai, H.; Keller, W. J. Bioactivity-guided fractionation of selected botanicals. *11th Annual Oxford International Conference on the Science of Botanicals (ICBS)*, Oxford, MS, April 16-19, **2012**.
-

POSTER PRESENTATIONS

1. Older, E. A.; Zhang, J.; Xue, D.; Mitchell, M. K.; Madden, M.; Fan, D.; Ellermann, M.; Li, Y.; **Li, J.*** Biosynthetic enzyme-guided disease correlation connects gut microbial metabolites sulfonolipids to inflammatory bowel disease involving TLR4 signaling. *64th Annual Meeting of the American Society of Pharmacognosy*, Rockville, MD, July 22-26, **2023**.
2. Pulliam, C.; Madden, M.; Older, E. A.; Xue, D.; **Li, J.*** Heterologous expression mediates investigation of potential signaling molecules from *Streptomyces*. *64th Annual Meeting of the American Society of Pharmacognosy*, Rockville,

MD, July 22-26, 2023.

3. Madden, M.; Older, E. A.; Xue, D.; Campbell, A.; Lee, D.; Goshow, A.; Quinn, E.; Fan, D.; **Li, J.*** Outer membrane vesicles deliver dual immunomodulatory sulfonolipids to regulate macrophage immune response. *64th Annual Meeting of the American Society of Pharmacognosy*, Rockville, MD, July 22-26, 2023.
4. Gokturk, I.; Pulliam, C.; Older, E. A.; **Li, J.*** Heterologous expression enables the discovery of novel lasso peptides. *ACS Project SEED at USC*, Columbia, SC, July 27, 2023.
5. Charpe, A.; Modugu, S.; Pulliam, C.; **Li, J.*** Heterologous expression enables discovery of novel lasso peptides. *2023 Governor's School for Science & Mathematics Summer Program for Research Interns*, Columbia, SC, July 14, 2023.
6. Ilangeswaran, M.; Suarez, E.; Madden, M., Xue, D.; **Li, J.*** Heterologous expression of a potential antibiotic from bacteria. *2023 Governor's School for Science & Mathematics Summer Program for Research Interns*, Columbia, SC, July 14, 2023
7. Madden, M.; Quinn, E.; Older, E. A.; **Li, J.*** Biological activity of sulfonolipids and outer membrane vesicles. *Discover USC*, Columbia, SC, April 21, 2023.
8. Pulliam, C.; Xue, D.; **Li, J.*** Discovery of promiscuous *N*-methyltransferase leads to production of new dimethylated lanthipeptides with improved antibacterial activity. *Discover USC*, Columbia, SC, April 21, 2023. **(1st Place Poster Award)**
9. Campbell, A.; Lee, D.; Older, E. A.; **Li, J.*** Characterization and biological study of sulfonolipids. *Discover USC*, Columbia, SC, April 21, 2023.
10. Older, E. A.; Xue, D.; Madden, M.; Pulliam, C.; Lee, D.; Quinn, E.; Campbell, A.; **Li, J.*** Unlocking chemical mediators of biological activity at the human-microbe interface. *NIH COBRE Center for Dietary Supplements and Inflammation Annual Meeting*, Columbia, SC, March 2, 2023. **(1st Place Poster Award)**
11. Older, E. A.; Xue, D.; Madden, M.; Pulliam, C.; Lee, D.; Quinn, E., Campbell, A.; **Li, J.*** Unlocking new chemistry underlying host-microbe interactions. *2023 Senior Achievement Awards and Departmental Poster Competition*, Columbia, SC, February 10, 2023. **(Thermo Fisher Scientific Award)**
12. Xue, D.; Shang, Z.; Older, E. A.; Zhong, Z.; Pulliam, C.; Peter, K.; Madu, J.; Li, Y.; **Li, J.*** Discovery of new *N,N*-dimethylated lanthipeptides via pathway refactoring features a unique methyltransferase. *63rd Annual Meeting of the American Society of Pharmacognosy*, Charleston, SC, July 23-28, 2022.
13. Ferris, Z.; Shang, Z.; Sweeney, D.; Chase, A.; Hui, Y.; Older, E. A.; Xue, D.; Nagarkatti, P.; Nagarkatti, M.; Testerman, T.; Jensen, P.; **Li, J.*** Grincamycins P-T: rearranged angucyclines from marine *Streptomyces* inhibit cell lines of the rare cancer pseudomyxoma peritonei. *63rd Annual Meeting of the American Society of Pharmacognosy*, Charleston, SC, July 23-28, 2022.
14. Witt, A.; Lee, D.; Goshow, A.; Older, E. A.; **Li, J.*** Extraction & isolation of sulfobacin A from human microbiota. *2022 Governor's School for Science & Mathematics Summer Program for Research Interns*, Columbia, SC, July 15, 2022.
15. Zheng, R.; Yan, D.; Pulliam, C.; Maybach, L.; Older, E. A.; Xue, D.; **Li, J.*** Ranthipeptide discovery via CRISPR-mediated gene editing. *2022 Governor's School for Science & Mathematics Summer Program for Research Interns*, Columbia, SC, July 15, 2022.
16. Tang, C.; **Li, J.*** Advancing sustainable antifungal coatings through eco-friendly chemical curing of natural seed oils. *2022 National Junior Sciences and Humanities Symposium*, Albuquerque, New Mexico, April 20-23, 2022. **(1st Place Award in Chemistry category)**
17. Hamrick, S.; Cawley, D.; Older, E. A.; **Li, J.*** Production and purification of lanthipeptide natural products. *2021 Governor's School for Science & Mathematics Summer Program for Research Interns*, Columbia, SC, July 16, 2021.
18. Kim, R.; Smith, D.; Older, E. A.; **Li, J.*** Accelerating natural product-based drug discovery through genome mining to fight antibiotic resistance. *2021 Governor's School for Science & Mathematics Summer Program for Research Interns*,

Columbia, SC, July 16, **2021**.

19. Chen, E.; **Li, J.*** Isolation of a potential novel antifungal compound in *Curcuma amada* rhizome extract and its effect on *Aspergillus Niger*. *2021 National Junior Sciences and Humanities Symposium*, virtual meeting, April 14-17, **2021**.
 20. Shang, Z.; Xue, D.; Older, E. A.; Ferris, Z. E.; Tian, H.; **Li, J.*** Discovery of highly modified bacterial polypeptides for antimicrobial therapy. *NIH COBRE Center for Dietary Supplements and Inflammation Annual Meeting*, Columbia, SC, February 12, **2020**.
 21. Older, E. A.; Ferris, Z. E.; Moore, B. S.; **Li, J.*** Genome mining for biomolecule discovery and biomedical application. *2019 South Carolina State Conference*, Greenville, SC, April 10-12, **2019**.
 22. Chao, M.; Montano, E.; Pogliano, J.; **Li, J.**; Moore, B. S. Genome mining for the discovery of potential antibiotics. *12th UCSD ACSSA Research Symposium*, San Diego, CA, May 17, **2018**.
 23. Malilay, A.; **Li, J.*** Assessing antifouling activity of *heteractis magnifica* against *Amphibalanus amphitrite* and *Escherichia coli*. *2017 California State Science Fair*, Los Angeles, CA, April 24-25, **2017**.
 24. **Li, J.**; Tang, X.; Zhang, J. J.; O'Neill, E. C.; Nonejuie, P.; Pogliano, J.; Mantovani, S. M.; Moore, B. S. Discovery and biosynthetic characterization of thiotetronate fatty acid synthase-inhibiting antibiotics. *2016 Marine Natural Products Gordon Research Conference*, Ventura, CA, March 5-11, **2016**.
 25. **Li, J.**; Tang, X.; O'Neill, E. C.; Zhang, J. J.; Mantovani, S. M.; Moore, B. S. Discovery of fatty acid synthase inhibitors and their biosynthetic pathways by a novel target-directed genome mining strategy. *56th Annual Meeting of the American Society of Pharmacognosy*, Copper Mountain, CO, July 25-29, **2015**. (Podium and Poster Presentations)
 26. Kinghorn, A. D.; **Li, J.**; Pan, L.; Naman, C. B.; Chai, H.; Deng, Y.; Keller, W. J. Pyrrole alkaloids with potential cancer chemopreventive activity from Goji berry samples. *Joint 55th Annual Meeting of the American Society of Pharmacognosy and 14th Annual International Conference on the Science of Botanicals*, Oxford, MS, August 2-6, **2014**. Also presented at *The Ohio State University Comprehensive Cancer Center (OSUCCC – James) 16th Annual Scientific Meeting*, Columbus, OH, February 28, **2014**, and at the 2014 College of Pharmacy Research Day, College of Pharmacy, The Ohio State University, Columbus, OH, April 2, **2014**.
 27. **Li, J.**; Pan, L.; Deng, Y.; Yuan, C.; Chai, H.; Kinghorn, A. D. Novel bioactive constituents of *Sphenostylis marginata* ssp. *erecta*. *54th Annual Meeting of the American Society of Pharmacognosy*, St. Louis, MO, July 13-17, **2013**.
 28. **Li, J.**; Pan, L.; Deng, Y.; Yuan, C.; Chai, H.; Kinghorn, A. D. Sphenostylisins A-K: NF- κ B inhibitors, quinone reductase inducers, and antioxidants from *Sphenostylis marginata* ssp. *erecta*. *The Ohio State University Comprehensive Cancer Center (OSUCCC – James) 15th Annual Scientific Meeting*, Columbus, OH, February 26, **2013**. Also presented at the 2013 College of Pharmacy Research Day, College of Pharmacy, The Ohio State University, Columbus, OH, April 4, **2013**.
 29. **Li, J.**; Chai, H.; Deng, Y.; Keller, W. J.; Kinghorn, A. D. Bioactivity-guided isolation of antioxidant and quinone reductase-inducing constituents from Maqui berry. *53rd Annual Meeting of the American Society of Pharmacognosy*, New York, NY, July 28-August 2, **2012**.
 30. **Li, J.**; Chai, H.; Deng, Y.; Keller, W. J.; Kinghorn, A. D. Bioactivity-guided isolation of antioxidant constituents of the berries of *Aristolelia chilensis*. *The Ohio State University Comprehensive Cancer Center (OSUCCC – James) 14th Annual Scientific Meeting*, Columbus, OH, February 22, **2012**. Also presented at the 2012 College of Pharmacy Research Day, College of Pharmacy, The Ohio State University, Columbus, OH, May 17, **2012**.
 31. **Li, J.**; Deng, Y.; Chai, H.; Keller, W. J.; Kinghorn, A. D. Bioactivity-guided isolation of antioxidant constituents of *Aronia melanocarpa* (black chokeberry). *52nd Annual Meeting of the American Society of Pharmacognosy*, San Diego, CA, July 30-August 4, **2011**. Also presented at *The Ohio State University Comprehensive Cancer Center (OSUCCC – James) 13th Annual Scientific Meeting*, Columbus, OH, February 25, **2011**, and at the 2011 College of Pharmacy Research Day, College of Pharmacy, The Ohio State University, Columbus, OH, May 12, **2011**.
-

INVITED SEMINARS

1. **Li, J.** Harnessing chemistry at the human-microbiota interface for drug discovery. Department of Chemistry, Wake Forest University, Winston-Salem, NC, September 20, **2023**.
 2. **Li, J.** Harnessing human-microbiota interactions for drug discovery. Department of Medicinal Chemistry and Pharmacognosy, The Ohio State University, Columbus, OH, September 5, **2023**.
 3. **Li, J.** Harnessing nature's molecular potential for drug discovery. Department of Chemical and Biological Sciences, Youngstown State University, Youngstown, OH, March 24, **2023**.
 4. **Li, J.** Harnessing nature's molecular potential for drug discovery. University of Illinois Urbana-Champaign ACS Student Chapter, virtual meeting, March 26, **2022**.
 5. **Li, J.** Host-microbiota interactions mediated by natural products. College of Pharmacy, Zhejiang University of Technology, virtual meeting, August 16, **2021**.
 6. **Li, J.** Harnessing nature's molecular potential for drug discovery. Department of Chemistry and Biochemistry, University of North Carolina Greensboro, Greensboro, NC, November 12, **2021**.
 7. **Li, J.** Harnessing nature's molecular potential for drug discovery. Center for Marine Science MARBIONC, University of North Carolina Wilmington, Wilmington, NC, November 4, **2021**.
 8. **Li, J.** Mining microbial genomes for drug discovery. College of Pharmacy, Guangzhou University of Chinese Medicine, Guangzhou, Guangdong, China, December 20, **2018**.
 9. **Li, J.** Mining microbial genomes for drug discovery. College of Pharmacy, Zhejiang University, Hangzhou, Zhejiang, China, December 19, **2018**.
 10. **Li, J.** Mining microbial genomes for drug discovery. School of Pharmacy, Huazhong University of Science and Technology, Wuhan, Hubei, China, December 13, **2018**.
-

SYNERGISTIC SERVICE AND ACTIVITIES

***Invited Reviewer for Scientific Journals:** Nature Communications; Organic Letters; ACS Chemical Biology; Journal of Organic Chemistry; ACS Bio & Med Chem Au; Biochemistry; Tetrahedron; Tetrahedron Letters; Organic & Biomolecular Chemistry; Bioorganic Chemistry; Journal of Natural Products; Journal of The American Society for Mass Spectrometry; Journal of Natural Medicines; Journal of Pharmacy and Pharmacology; Current Opinion in Biotechnology; Catalysts; Journal of Separation Sciences; Industrial & Engineering Chemistry Research; Fitoterapia; Phytochemistry; Phytochemistry Letters; Marine Drugs; Molecules; Biomolecules; BMC Biochemistry; Pharmacological Research; Chemistry Central Journal; Food Research International; AMB Express; Nutrients; Chemistry Africa; PeerJ; Chinese Medicine; Technologies; 3 Biotech; Frontiers in Pharmacology; Communications Chemistry; Chemical Papers; RPS Pharmacy and Pharmacology Reports; Marine Life Science & Technology; Scientific Reports; ACS Pharmacology & Translational Science.
