

# Jie Li

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## EDUCATION AND TRAINING

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- 2014-2018**      **Postdoctoral Scholar**, University of California, San Diego, CA  
Advisor: Dr. Bradley S. Moore
- 2008-2013**      **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
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## PROFESSIONAL APPOINTMENTS

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

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- 2017            American Society of Pharmacognosy Annual Meeting Travel Award
- 2013            Nominee for Presidential Fellowship Award, The Ohio State University
- 2011            Raymond Daskotch 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
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## RESEARCH EXPERIENCE

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

– Natural products chemistry, biosynthesis, and drug discovery

Funding Support:

National Science Foundation (NSF) OIA-1655740 and National Institutes of Health (NIH) P20GM103641

**\*Postdoctoral Scholar, Center for Marine Biotechnology and Biomedicine, Scripps Institution of Oceanography, 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 (isolation, structure elucidation, and biological evaluation of anti-cancer and cancer chemopreventive compounds)
- 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*
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## **TEACHING EXPERIENCE**

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

- Biochemistry I (Chem 555/Biol 545, Fall Semesters, 2019 and 2020)
- Special Topics in Bioorganic and Medicinal Chemistry (Chem 759/739, Spring Semester, 2020)
- Organic Chemistry I (Chem 333, Spring Semester, 2021)

**\*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)
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## **RESEARCH MENTORSHIP**

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**\*UofSC Postdoctoral and Visiting Scholars Mentoring**

- Zhuo Shang, Haiyan Tian, Dan Xue, Lukuan Hou, and Ying Li, University of South Carolina, Columbia, SC

**\*UofSC Ph.D. Students Advisor**

- Ethan Older (Jan 2019 – ), Zachary Ferris (Jan 2019 – ), Joshua Madu (Jan 2021 – ), University of South Carolina, Columbia, SC

**\*UofSC Ph.D. Students Dissertation Committee**

- Jingyu Fan (2019 – ), Leman Kurnaz (2019 – ), and Enis Sanchez (2020 – ), University of South Carolina, Columbia, SC

**\*UofSC Undergraduate Research Mentoring**

- Davis Hobbs, James Robby, Rhett Visintin, Michael Madden, Emily Quinn, Narinder Singh, and Nolan Dittenhauser (2019 – ), University of South Carolina, Columbia, SC

**\*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

**\*High School AP Class 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 – Apr 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

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**PUBLICATIONS (PEER-REVIEWED RESEARCH ARTICLES)**

1. 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**, doi.org/10.1016/j.bioorg.2021.104925.
2. 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**, doi.org/10.1021/acs.jnatprod.1c00179.
3. 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**, doi.org/10.1021/acs.jnatprod.0c00840.
4. 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, DOI: 10.1016/j.bios.2021.113134
5. 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.
6. 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.
7. 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, DOI: 10.1016/j.foodchem.2019.125290
8. 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).
9. 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, DOI: 10.1002/cbdv.201900052.
10. 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*, 3416-3423.
11. 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.
12. 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)
  13. **Li, J.**<sup>#</sup>; Tang, X.<sup>#</sup>; 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)
  14. **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.
  15. Tang, X.<sup>#</sup>; **Li, J.**<sup>#</sup>; 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)
  16. 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.
  17. 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.
  18. Li, Z.<sup>#</sup>; **Li, J.**<sup>#</sup>; 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)
  19. 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.
  20. Tang, X.<sup>#</sup>; **Li, J.**<sup>#</sup>; Millán-Aguñaga, 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.)
  21. Naman, C. B.<sup>#</sup>; **Li, J.**<sup>#</sup>; 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)
  22. 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.
  23. 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.
  24. 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.
25. 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.
26. **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.**)
27. **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.
28. 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.
29. **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.
30. 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.
31. 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  $\alpha$ -mangostin in an HT-29 colon cell xenograft model and the tissue distribution of xanthones and their phase II metabolites. *Molecular Nutrition & Food Research*, **2013**, *57*, 203-211.
32. 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.
33. **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.
34. Zhang, Z.; **Li, J.**; An, J.; Wang, J.; Zhang, H. A new species of *Erigeron* (Asteraceae) from Sichuan, China. *NOVON*, **2010**, *20*, 117-119.
35. 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.
36. 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.
37. **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.
38. 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. (\*corresponding author)

39. 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.
  40. 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.
  41. 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.
  42. 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.
  43. 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.
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## EDITORIALS/REVIEWS

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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.; Tantillo, 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.
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## BOOK CHAPTERS

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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.
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## ORAL PRESENTATIONS

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1. **Li, J.**; Moore, B. S. Discovery and biosynthetic study of acylsulfenic acid natural products. *2<sup>nd</sup> U.S.-China Summit on Natural Products Sciences*, San Diego, CA, August 12-16, **2018**.
  2. **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**.
  3. **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**.
  4. **Li, J.**; Tang, X.; Awakawa, T.; Moore, B. S. Production of new thiotetronate antibiotics with potentiated bioactivity by enzymatic tandem carboxylation-amidation. *58<sup>th</sup> Annual Meeting of the American Society of Pharmacognosy*, Portland, OR, July 29-August 2, **2017**.
  5. **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. *253<sup>rd</sup> American Chemical Society National Meeting – Division of Medicinal Chemistry*, San Francisco, CA, April 2-6, **2017**.
  6. Naman, C. B.<sup>#</sup>, **Li, J.**<sup>#</sup>; 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. *253<sup>rd</sup> American Chemical Society National Meeting – Division of Agricultural and Food Chemistry*, San Francisco, CA, April 2-6, **2017**. (# **equal contribution**; Invited Oral Presentation; presented by my collaborator, Dr. C. Benjamin Naman.)
  7. Naman, C. B.<sup>#</sup>, **Li, J.**<sup>#</sup>; 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. *252<sup>nd</sup> American Chemical Society National Meeting – Division of Agricultural and Food Chemistry*, Philadelphia, PA, August 21-25, **2016**. (# **equal contribution**; Invited Oral Presentation; presented by my collaborator, Dr. C. Benjamin Naman.)
  8. **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**. (Tag Team Oral Presentation)
  9. **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. *56<sup>th</sup> Annual Meeting of the American Society of Pharmacognosy*, Copper Mountain, CO, July 25-29, **2015**. (Podium and Poster Presentations)
  10. **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*. *46<sup>th</sup> Annual Mid-Atlantic Graduate Student Symposium*, Columbus, OH, June 9-11, **2013**. (Invited Oral Presentation)
  11. Kinghorn, A. D.; **Li, J.**; Chai, H.; Keller, W. J. Bioactivity-guided fractionation of selected botanicals. *11<sup>th</sup> Annual Oxford International Conference on the Science of Botanicals (ICBS)*, Oxford, MS, April 16-19, **2012**. (Invited Oral Presentation; presented by my Ph.D. advisor, Dr. A. Douglas Kinghorn.)
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## POSTER PRESENTATIONS

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1. 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**.
2. Chao, M.; Montano, E.; Pogliano, J.; **Li, J.**; Moore, B. S. Genome mining for the discovery of potential antibiotics. *12<sup>th</sup> UCSD ACSSA Research Symposium*, San Diego, CA, May 17, **2018**.
3. 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**.
4. **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**.

5. **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. *56<sup>th</sup> Annual Meeting of the American Society of Pharmacognosy*, Copper Mountain, CO, July 25-29, **2015**. (Podium and Poster Presentations)
  6. 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 55<sup>th</sup> Annual Meeting of the American Society of Pharmacognosy and 14<sup>th</sup> 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) 16<sup>th</sup> 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**. (Presented by my Ph.D. advisor, Dr. A. Douglas Kinghorn, after my graduation).
  7. **Li, J.**; Pan, L.; Deng, Y.; Yuan, C.; Chai, H.; Kinghorn, A. D. Novel bioactive constituents of *Sphenostylis marginata* ssp. *erecta*. *54<sup>th</sup> Annual Meeting of the American Society of Pharmacognosy*, St. Louis, MO, July 13-17, **2013**.
  8. **Li, J.**; Pan, L.; Deng, Y.; Yuan, C.; Chai, H.; Kinghorn, A. D. Sphenostylisins A-K: NF- $\kappa$ B inhibitors, quinone reductase inducers, and antioxidants from *Sphenostylis marginata* ssp. *erecta*. *The Ohio State University Comprehensive Cancer Center (OSUCCC – James) 15<sup>th</sup> 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**.
  9. **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. *53<sup>rd</sup> Annual Meeting of the American Society of Pharmacognosy*, New York, NY, July 28-August 2, **2012**.
  10. **Li, J.**; Chai, H.; Deng, Y.; Keller, W. J.; Kinghorn, A. D. Bioactivity-guided isolation of antioxidant constituents of the berries of *Aristotelia chilensis*. *The Ohio State University Comprehensive Cancer Center (OSUCCC – James) 14<sup>th</sup> 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**.
  11. **Li, J.**; Deng, Y.; Chai, H.; Keller, W. J.; Kinghorn, A. D. Bioactivity-guided isolation of antioxidant constituents of *Aronia melanocarpa* (black chokeberry). *52<sup>nd</sup> 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) 13<sup>th</sup> 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**.
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## **SYNERGISTIC SERVICE AND ACTIVITIES**

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

**\*Invited Guest Editor:** special issue “Discovery and biological evaluation of natural phenolic antioxidants” in *Oxidative Medicine and Cellular Longevity*; Oct 2016 – Aug 2017.

**\*Translator for Chemical & Engineering News:** since Mar 2018.

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