Referred Publications

* Denotes PI on papers, order of authors indicates relative intellectual contributions, where first author contributed the most after the PI contribution, § denotes invited book chapters, and Undergraduate authors are underlined.

§52. Dual inhibition approaches: modulating hsp70 and hsp90 simultaneously 2013 (UNSW)
Yao Wang, Jeanette McConnell, and S. R. McAlpine*
Book Chapter accepted by Springer Books: Heat shock protein inhibitors: success stories

§51. Hsp90 inhibitors: modulating the N-versus the C-terminal domain 2013 (UNSW)
Jeanette McConnell, Yao Wang and S. R. McAlpine*
Book Chapter accepted by Springer Books: Heat shock protein inhibitors: success stories

50. Synthesis and cytotoxicity of sanguinamide B analogs: identification of an active macrocyclic conformation 2013 (UNSW)
Hendra Wahyudi, Worawan Tantisantisom, and Shelli R. McAlpine*

§49. Recent Advances in Macroyclic Hsp90 Inhibitors 2013 (UNSW)
Deborah Ramsey, R.R. A Kitson, J. I Levin, C. J Moody*, and S. R. McAlpine* 
Book Chapter accepted by RSC Books: Macrocycles in Drug Discovery

48. A Heat shock protein 90 inhibitor that modulates the immunophilins and regulates hormone receptors without inducing a heat shock response 2013 (UNSW)
Jeanette R. McConnell, Leslie D. Alexander, and Shelli R. McAlpine*

47. Total synthesis and biological activity of the natural product 2013 (UNSW)
Urukthapelstatin A
Chun Chieh Lin, Worawan Tantisantisom, and Shelli R. McAlpine*

46. Mechanism of action for a novel macrocycle: a small molecule inhibitor of the ribosome machinery 2013 (UNSW)
Worawan Tantisantisom, Deborah M. Ramsey, and Shelli R. McAlpine*

45. Effectively delivering a drug using star polymers: Improving solubility of a unique hsp90 inhibitor 2013 (UNSW)
Seong Jong Kim, Deborah M. Ramsey, Cyrille Boyer, Thomas Davis, and Shelli R. McAlpine*

44. Utilizing a Dimerization strategy to inhibit the dimer protein Hsp90: Synthesis and biological activity of a sansalvamide A dimer 2013 (UNSW)
Hendra Wahyudi, Yao Wang, and Shelli R. McAlpine*
In press Org. and Biomol. Chem. doi=C3OB41722K 2013 Impact factor: 3.568

43. Novel Marine Natural Products that target the gram-positive Cell Wall 2013 (UNSW)
Deborah M. Ramsey,* Amirul Islam, Rohan A. Davis, Cynthia B. Whitchurch, Lynne Turnbull and Shelli R. McAlpine

42. A potential Rhodium Cancer Therapy: studies of a cytotoxic organorhodium (I) complex that binds DNA 2013 (UNSW)
Jeanette R. McConnell, Dimple P. Rananaware, Deborah M. Ramsey, Kai N. Buys, Marcus L. Cole and Shelli R. McAlpine*
41. Heat shock proteins 27, 40, and 70 as combinational therapeutic targets
Jeanette R. McConnell and Shelli R. McAlpine*

40. An efficient synthetic route for synthesizing macrocycles that contain heterocycles: Solid Phase versus Solution Phase Synthesis
Seong Jong Kim and Shelli R. McAlpine*
Molecules V18 p1111-1121 2013 Impact factor: 2.679

39. A structure-activity relationship study on multi-heterocyclic molecules: two linked thiazoles are required for cytotoxic activity
Seong Jong Kim, Chun Chieh Lin, Chung-Mao Pan, Dimple P. Rananaware, Deborah M. Ramsey, and Shelli R. McAlpine*

38. Halting Metastasis through CXCR4 inhibition
Deborah M. Ramsey* and Shelli R. McAlpine*

37. Synthesis, structure-activity analysis, and biological evaluation of structurally related conformational isomers
Hendra Wahyudi, Worawan Tantisantisom, Xuechao Liu, Deborah M. Ramsey, Erinprit K. Singh, and Shelli R. McAlpine*

36. A new Hsp90 inhibitor that exhibits a novel biological profile
Deborah M. Ramsey, Jeanette R. McConnell, Leslie D. Alexander, Kaishin W. Tanaka, Chester M. Vera, and Shelli R. McAlpine*

35. Progress towards the synthesis of Urukthapelstatin A and two analogs
Chung-Mao Pan, Chun-Chieh Lin, Seong Jong Kim, Robert P. Sellers, and Shelli R. McAlpine*

34. Total Synthesis of Natural Product trans,trans- Sanguinamide B and its structurally related conformational isomers
Erinprit K. Singh, Deborah M. Ramsey, and Shelli R. McAlpine*

33. Synthesis of Sansalvamide A Peptidomimetics: Triazole Oxazole, Thiazole, and Pseudoproline containing compounds
Tetrahedron, v68, p1029-1051, 2012 Impact factor: 2.899

32. Macrocycles that inhibit the binding between heat shock protein 90 and TPR-containing proteins
Veronica C Ardi, Leslie D. Alexander, Victoria Johnson, and Shelli R. McAlpine*
*ACS Chemical Biology v6, p1357, 2011 Impact factor: 5.442

31. Small Molecule Inhibitors of Hsp90's Conformational Changes
Leslie D. Alexander, James Partridge, David Agard, and Shelli R. McAlpine*
30. Synthesis and Evaluation of Biotinylated Sansalvamide A Analogs and their modulation of Hsp90  
Joseph Kunicki, Mark Petersen, Leslie D. Alexander, Veronica C. Ardi, Jeanette McConnell, and Shelli R. McAlpine*  

29. A third generation of Sansalvamide A derivatives: Design and synthesis of Hsp90 inhibitors  
Bioorganic and Medicinal Chemistry, v18, p6822-6856 2010 Impact factor: 3.151  

28. Histone deacetylase inhibitors: Synthesis of cyclic tetrapeptides & their triazole analogs  
Erinprit K. Singh, Lidia A. Nazarova, Stephanie A. Lapera, Leslie D. Alexander and Shelli R. McAlpine*  

27. Macrocyclic inhibitors of Hsp90  
Victoria A. Johnson, Erinprit K. Singh, Lidia A. Nazarova, Leslie D. Alexander, and Shelli R. McAlpine*  
Current Topics in Medicinal Chemistry v23, p1380-1402 2010 Impact factor: 4.900  

Robert C. Vasko, Rodrigo A. Rodriguez, Christian Cunningham, Veronica Ardi, David Agard, and Shelli R. McAlpine*  
ACS Medicinal Chemistry Letters, v1, p4-8 2010 Impact factor: 3.311  

25. Evaluation of Di-Sansalvamide A derivatives: synthesis, SAR, and Mechanism of action  
Leslie D. Alexander, Robert P. Sellers, Melinda R. Davis, Veronica C. Ardi, Victoria A. Johnson, Robert C. Vasko and Shelli R. McAlpine*  
Journal of Medicinal Chemistry (letter), v52, p7927-7930, 2009 Impact factor: 5.614  

24. A comprehensive study of Sansalvamide A derivatives: the structure-activity relationships of 78 derivatives in two pancreatic cancer cell lines  
Po-Shen Pan, Robert C. Vasko, Stephanie A. Lapera, Victoria A. Johnson, Robert P. Sellers, Chun-Chieh Lin, Chung-Mao Pan, Melinda R. Davis, Veronica C. Ardi and Shelli R. McAlpine*  
Bioorganic and Medicinal Chemistry, v17, p5806-5825, 2009 Impact factor: 3.311  

Rodrigo A. Rodriguez, Po-Shen Pan, Robert C. Vasko, Chung-mao Pan, William Disman, and Shelli R. McAlpine*  

22. Conformational based design of macrocycles as antitumor agents  
Erinprit K. Singh, Robert P. Sellers, Leslie D. Alexander and Shelli R. McAlpine*  
Current Opinion in Drug Discovery and Development, v11, p544-552, 2008 Impact factor: 5.120  

21. Synthesis and biological evaluation of Histone Deacetylases inhibitors that are based on the FR235222 scaffold  
Erinprit Singh, Suchitra Ravula, Chung-mao Pan, Po-Shen Pan, Robert C. Vasko, Stephanie A. Lapera, Sujith, Mary Kay Pflum, and Shelli R. McAlpine*
20. Synthesis and cytotoxicity of a new class of potent decapeptide macrocycles 2008 (SDSU)
Melinda R. Davis, Thomas J. Styers, Rodrigo A. Rodriguez, Po-Shen Pan, Robert C. Vasko, and Shelli R. McAlpine*

19. A comprehensive study of Sansalvamide A derivatives and their structure-activity relationships against drug-resistant colon cancer cell lines.
Katerina Otrubova, Gerald H. Lushington, David Vander Velde, Kathleen L. McGuire, and Shelli R. McAlpine*

18. Identification of compounds potent against pancreatic cancer cell lines
Po-Shen Pan, Kathleen L. McGuire, and Shelli R. McAlpine*

17. A novel platform targeting drug-resistant colon cancers
Katerina Otrubova, Kathleen L. McGuire and Shelli R. McAlpine*

Rodrigo A. Rodriguez, Po-Shen Pan, Chung-Mao Pan, Suchitra Ravula, Stephanie Lapera, Erin Singh, Thomas J. Styers, Julia Cajica, Joseph D. Brown, Emily Parry, Katerina Otrubova, and Shelli R. McAlpine*

15. Synthesis of Sansalvamide A derivatives and their cytotoxicity in colon cancer cell line HT-29
Thomas J. Styers, Ahmet Kekec, Rodrigo Rodriguez, Joseph D. Brown, Julia Cajica, Chris L. Carroll, Po-Shen Pan, Irene Medina, Ricardo Corral, Jennifer V.C. Johnston, Emily Parry, Stephanie Lapera, Katerina Otrubova, Kathleen L. McGuire,* and Shelli R. McAlpine*
Bioorganic and Medicinal Chemistry, v14, p5625-5631, 2006 Impact factor: 3.311

14. Novel Antibiotics: C-2 symmetrical macrocycles affecting Holliday Junction DNA processing
Po-Shen Pan, Fiona A. Curtis, Chris L. Carroll, Irene Medina, Lisa A. Liotta, Gary J. Sharples, and Shelli R. McAlpine*
Bioorganic and Medicinal Chemistry, v14, p4731-4739, 2006 Impact factor: 3.311

13. Synthesis and novel structure-activity relationships of potent Sansalvamide A derivatives
Katerina Otrubova, Thomas J. Styers, Po-Shen Pan, Rodrigo Rodriguez, Kathleen L. McGuire,* and Shelli R. McAlpine*
Chemical Communications p1033-1034, 2006 Impact factor: 6.378

12. Synthesis of novel Sansalvamide A Derivatives via new, high yielding macrocyclization conditions
Thomas J. Styers, Rodrigo Rodriguez, Po-Shen Pan, and Shelli R. McAlpine*

11. Synthesis of novel anti-tumor agents: Sansalvamide A derivatives
Chris L. Carroll, Jennifer V. C. Johnston, Ahmet Kekec, Joe Brown, Emily Parry, Julia Cajica, Irene Medina, Kristina M. Cook, Po-Shen Pan, and Shelli R. McAlpine*
10. Novel Antibiotics: second generation macrocyclic peptides designed to trap holliday junctions  
Lisa A. Liotta, Irene Medina, Jennifer L. Robinson, Chris L. Carroll, Po-Shen Pan, Ricardo Corral, Jennifer V. C. Johnston, Kristina M. Cook, Fiona A. Curtis, Gary J. Sharples and Shelli R. McAlpine*  

9. Understanding Diseases via Receptor Regulation  
Shelli R. McAlpine  
_Chemistry and Biology, v11, p157-158 2004 Impact factor: 6.097_

8. A progressive synthetic strategy for Class B Synergimycins  
Jennifer L. Robinson, Rachel E. Taylor, Lisa A. Liotta, Megan L. Bolla Enrique V. Azevedo, Irene Medina, and Shelli R. McAlpine*  

7. Novel Antibiotics: Macrocyclic Peptides Designed to Trap Holliday Junctions  
Megan L. Bolla, Enrique V. Azevedo, Jason M. Smith, Rachel E. Taylor, Dev K. Ranjit, Anca M. Segall, and Shelli R. McAlpine*  

6. Determination of Functional Group Distribution within Rasta Resins Utilizing Optical Analysis  

Graduate and Post-doctoral publications  
5. Visualizing Functional Group Distribution in Solid Support Beads using Optical Analysis  
S. R. McAlpine,* S. L. Schreiber,  

4. Studies of Naphthyl-Substituted β–Cyclodextrins. Self-Aggregation and Inclusion of External Guests  
S. R. McAlpine, M. A. Garcia-Garibay*  

3. C32-O-Imidazol-2-yl-methyl Ether Derivatives of the Immunosuppressant Ascomycin with Improved Therapeutic Potential  
_Bioorganic and Medicinal Chemistry Letters, v8, p.2253 1998 Impact factor: 2.427_

2. Binding Studies of Adamantanecarboxylic Acid and a Naphthyl-Bound β-Cyclodextrin by Variable Temperature 1H NMR  
S. R. McAlpine, M. A. Garcia-Garibay*  

1. Inside-Outside Isomerism of β-Cyclodextrin Covalently Linked with a Naphthyl Group  
S. R. McAlpine, M. A. Garcia-Garibay*  
Other Publications

1. Life as an academic: being a female assistant professor in chemistry
   Shelli R. McAlpine
   *American Chemical Society*; Gladly We Teach, p57 2006

Patents/Applications/Invention Disclosures

Order of authors indicates relative intellectual contributions, with last author contributing the most

A novel small molecule that blocks the ribosomal inhibitor
S. R. McAlpine
*Invention disclosure filed 2013*,

Using both hsp70 and Hsp90 inhibitors to target resistant cancers
S. R. McAlpine
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Hsp90 inhibitor attached to a nanoparticle
S. J. Kim, D. Ramsey, C. Boyer, T. Davis S. R. McAlpine
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S. R. McAlpine
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Cyclic pentapeptides for treatment of cancers
S. R. McAlpine
*Utility Patent Application filed 2007, Provisional Application filed 2006*

Macrocyclic peptides: methods for making and using them
K. L. McGuire, S. R. McAlpine*
*Provisional Patent Application filed March 2006, serial NO. 60/783,298*,
*Provisional Patent Application filed May 2006, serial NO. 60/797,111*,
*Utility Application Serial NO. 11/436,378*

Combinatorial Organic Synthesis of Unique Biologically Active Compounds
R. E. Taylor, M. L. Bolla, A. Segall, S. R. McAlpine*
*Provisional Patent Application serial number 60/369,420*
*Patent Application Filed April 2003*

Improved System for Identification of Compounds
“Using solid-phase ¹H & ¹³F NMR to identify tags on a single bead”
S. R. McAlpine; D. S. Tan; S. L. Schreiber*
*U.S. Patent Application No. 60/109,629*

Editor of Scientific Books/ Volumes

   Shelli R. McAlpine
   Springer Publishing, *Topics in Medicinal Chemistry- Editor in Chief*

   Shelli R. McAlpine
   ACS: *Annual Reports in Medicinal Chemistry- oncology editor*
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