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Employment

University of New South Wales (UNSW)
School of Chemistry
Associate Professor

Sydney, Australia
2011-current

San Diego State University (SDSU)
Department of Chemistry and Biochemistry
Professor

San Diego, CA
2010-2012

San Diego State University (SDSU)
Department of Chemistry and Biochemistry
Associate Professor

San Diego, CA
2006-2010

San Diego State University (SDSU)
Department of Chemistry and Biochemistry
Assistant Professor

San Diego, CA
2000-2006

Merck and Co
Department of Medicinal Chemistry
Research Associate

Rahway, NJ
1991-1992

Education

Harvard University
Department of Chemistry and Chemical Biology
Postdoctoral research fellow with Professor Stuart L. Schreiber

Cambridge, MA
1997-2000

University of California at Los Angeles (UCLA)
Department of Chemistry and Biochemistry
Doctor of Philosophy in Chemistry

Los Angeles, CA
1993 -1997

University of Illinois
Department of Chemistry
Bachelor of Science in Chemistry (ACS certified) Graduated with Distinction

Urbana, IL
1987-1991

Publications and Presentations (Summary)

Invited book chapters/Articles/Patents: 88

Invited Seminars: companies, universities and conferences: 91

Research Funding (Summary)

Peer-Reviewed Research funding for McAlpine Laboratory ~\$3,720,000

Total Extramural Research funding including external student support for McAlpine Lab ~\$4,200,000

Research Interests

- Design and synthesis of macrocyclic natural product derivatives: peptides and peptidomimetics
- Biological evaluation of natural product derivatives against colon, pancreatic, and lung cancers
- Mechanistic studies on cytotoxic macrocyclic natural product derivatives

Theses Supervised (Summary= 45)

PhD: 18

MSc: 14

Honours: 13

Teaching/Service Awards

Total teaching and university service awards: 28 awards

News Reports on our work

- **Chronicle of Higher Education**, February 24, 2014
- **San Diego 360 Magazine**, <<http://newscenter.sdsu.edu/360/news.aspx?s=71913>>, 2010
- **San Diego Tribune**, Saturday June 13, 2009
- **San Diego Tribune**, Wednesday December 17, 2008
- **SciBX (Science-Business eXchange)**, Feb 14, v1, 2008

Professional Activities

- | | |
|---|--|
| • Chair of the American Chemical society Australian chapter | Dates
July 2014-current |
| • Editorial Advisory board: Journal of Medicinal Chemistry (IF = 5.480, A/A*) | Jan 2015-Current |
| • American Chemical Society: International committee board member | Mar 2014-Current |
| • NHMRC adhoc grant reviewer | 2011-Current |
| • NIH Adhoc member of a study section | Mar 2015 |
| • Papers reviewed over past 5 years:
2012 = 22, 2013 = 47, 2014 = 46, 2015 = 39, 2016 = 22 | Jan 2010-2015 |
| • NSF panel member on a Grant Review | Oct 2011 |
| • American Chemical Society: Member Executive comm. (Med Chem Division) | Mar 2011-Mar 2014 |
| • Section Editor for Oncology for <u>Annual Reports in Medicinal Chemistry</u> | Nov 2009- 2014 |
| • Co-Guest Editor: <u>Current Topics in Medicinal Chemistry</u> (v9, <i>siRNA Edition</i>) | October 2009 |
| • American Chemical Society: Member Executive comm. (Organic Division) | Mar 2009-Mar 2012 |
| • NIH Adhoc member of a study section for NIH BCMB | June 2007 |
| • NIH member of a study section for NIH ADDT | July 2007-July 2011 |
| • NIH Adhoc member of a study section for NIH ADDT | Mar 2007 |
| • American Chemical Society: Long Range Planning Committee (Med Chem Div) | Mar 2007-Mar 2011 |
| • NIH Adhoc member of a study section for NIH CSR | July 2006 |
| • NIH Adhoc member of a study section for NIH SBCB | Feb 2006 |
| • NSF grant reviewer | Feb 2006 |
| • NIH Adhoc member of a study section for NIH CSR | July 2005 |
| • NIH Adhoc member of study section for NIH SEP | June 2005 |
| • NIH Adhoc member of a study section for NIH CSR | Mar 2005 |
| • CSUPERB member of review panel | Nov 2004-April 2008 |
| • NIH Adhoc member of a special study section for NIEHS | Mar 2004 |
| • NSF panel member for Grant Review | July 2003 |
| • NIH Adhoc member of the Bioorganic & Natural Product Study Section | Feb 2003 |

Conferences/Symposia Organized

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| • RACI Med Chem: Co-organized National 3 day symposium | Dates
Nov 2016 |
| • RACI Med Chem: Co-organized a one day symposium | Sept 2015 |
| • GRC Med Chem: organized session | Aug 2015 |
| • RACI Congress- session leader | Dec 2014 |
| • RACI Congress- Speaker Organizer for RACI medchem division | Dec 2014 |
| • GRC Med Chem: organized session for GRS (graduate research students) | Aug 2013 |
| • RACI Organic Symposium: organized a US speaker and funding | Dec 2013 |
| • RACI Biomolecular Committee Organizer- one of six to run conference | Aug 2013 |
| • GRC Med Chem Session on Hsp90 | Aug 2011 |
| • ACS MEDI symposium: Session on siRNA | Mar 2009 |
| • ACS MEDI symposium: Session on Hit to Lead | Aug 2008 |

Professional Organization Positions Held

- | | |
|---|---|
| • Member of the Editorial Advisory board for J. Med. Chem | Dates
Jan 2015- Dec 2017 |
| • Chair of the Australian ACS chapter | Aug 2015- Current |

- ACS International committee Member Jan 2014- Current
- RACI Medicinal Chemistry Foreign Liaison July 2013- Current
- ACS Councilor for MEDI division Mar 2011- Mar 2014
- American Chemical Society: Member Executive comm. (Med Chem Division) Mar 2011-Mar 2014
- Section Editor for Oncology for Annual Reports in Medicinal Chemistry Nov 2009- Current
- Co-Guest Editor: Current Topics in Medicinal Chemistry (v9, *siRNA Edition*) October 2009
- Advisory board member for "Current Topics in Medicinal Chemistry" Sept 2009- Current
- American Chemical Society: Member Executive comm. (Organic Division) Mar 2009-Mar 2012

School of Chemistry Positions Held (UNSW)

- Member of the Post-graduate Committee
- Undergraduate research coordinator- UNSW
- Member UNSW Outreach committee
- Member UNSW School Advisory Committee
- Member UNSW Department search committee Organic position

Dates

2015-current
2014-current
12-13
11-present
11

Faculty of Sciences Positions Held (UNSW)

- Member Faculty Advisory Committee
- Member International Committee
- Member of Interrupted Career Fellowship Committee
- Member Faculty Promotions Committee: Senior Lect to Assoc Prof

Dates

12- 14
12-13
12
11-13

Honors and Awards

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| 28. 5 year service award to Annual Reports in Medicinal Chemistry
<i>Appointed as a fellow within the RACI</i> | UNSW,
2014 |
| 27. Fellow of the Royal Australian Chemistry Institute
<i>Appointed as a fellow within the RACI</i> | UNSW,
2011 |
| 26. Most influential faculty member for most outstanding student
<i>Most influential faculty member for the most outstanding biology graduate: R Vasko</i> | SDSU, CA
2010 |
| 25. Mortar Board Award for Leadership, Scholarship, Service
<i>Given by two students for mentorship and guidance (Diana Lazo, Melissa Gutierrez)</i> | SDSU, CA
2009 |
| 24. Quest for the Best for Mentoring/teaching
<i>Given to 10 faculty at SDSU every year</i> | SDSU, CA
2009 |
| 23. Mortar Board Award for Leadership, Scholarship, Service
<i>Given by two students for mentorship and guidance (Cai Zhang, Jackie Crumpacker)</i> | SDSU, CA
2008 |
| 22. Most outstanding faculty member in Department of Chemistry
<i>Single faculty member who made outstanding contributions to Dept. is chosen by Chair</i> | SDSU, CA
2007 |
| 21. Most influential faculty member for most outstanding student
<i>Most influential faculty member for the most outstanding chemistry graduate: T Styers</i> | SDSU, CA
2007 |
| 20. Professor of the Year
<i>Chosen by Student affiliates of the American Chemical Society (SAACS)</i> | SDSU, CA
2006 |
| 19. Most influential faculty member for most outstanding student
<i>Most influential faculty member for the most outstanding chemistry graduate: E Parry</i> | SDSU, CA
2006 |
| 18. Daily Aztec: Most influential faculty member
<i>Students at SDSU chose their most influential faculty member, one of 7 selected</i> | SDSU, CA
2005 |
| 17. Guest Speaker at Howell Luncheon
<i>Invited guest speaker as I have mentored four Howell students (Chris Carroll, Kristina Cook, Emily Parry, Jennifer Johnston)</i> | SDSU, CA
2005 |
| 16. Outstanding Student Service Award for exceptional work with students
<i>Given to two faculty in the college of Sciences at SDSU for service to students</i> | SDSU, CA
2005 |
| 15. Nominated as "Outstanding Undergraduate Advisor"
<i>Given to a faculty in the college of Sciences at SDSU for advising students</i> | SDSU, CA
2005 |
| 14. Mortar Board Award for Leadership, Scholarship, Service
<i>Given by a student for mentorship and guidance(Kristina Cook)</i> | SDSU, CA
2004 |
| 13. C&E News Highlight April 19, 2004, p45-47
<i>"How to get a faculty position"</i> | SDSU, CA
2004 |
| 12. Mortar Board Award for Leadership, Scholarship, Service
<i>Given by a student for mentorship and guidance(Lynniece Wilson)</i> | SDSU, CA
2003 |
| 11. Mentor of most outstanding student in the College of Sciences
<i>Recognized at May 2003 Graduation(Rachel Taylor)</i> | SDSU, CA
2003 |

10. Phi Beta Kappa Honor Society <i>Recognized by an initiate in this society for teaching excellence (Rachel Taylor)</i>	SDSU, CA 2003
9. Mortar Board Award for Leadership, Scholarship, Service <i>Given by a student for mentorship and guidance (Rachel Taylor)</i>	SDSU, CA 2002
8. Phi Beta Kappa Honor Society <i>Recognized by an initiate in this society for teaching excellence</i>	SDSU, CA 2002
7. Mortar Board Award for Leadership, Scholarship, Service <i>Given by two students for mentorship and guidance (Sarah Colwell, Stacia Bier)</i>	SDSU, CA 2001
6. Golden Apple Award for Teaching and Contributions <i>Faculty member who contributed most to the student body of AMSA</i>	SDSU, CA 2001
5. George Gregory Prize for Excellence in Research <i>"For research accomplishments and future promise"</i>	Los Angeles, CA 1996
4. NIH Graduate Research Fellowship <i>NIH Pre-doctoral Training Fellowship</i>	Los Angeles, CA 1994 -1996
3. Research Fellowship <i>UCLA Chemistry Graduate Department Summer Fellowship</i>	Los Angeles, CA 1996
2. Chancellor Scholar-University of Illinois <i>1 of 400 members in the Campus Honors Program</i>	Urbana, IL 1988 -1991
1. Undergraduate Research Fellowship <i>Undergraduate summer fellowship in laboratory of Professor E. N. Jacobsen</i>	Urbana, IL 1989

Referred Publications

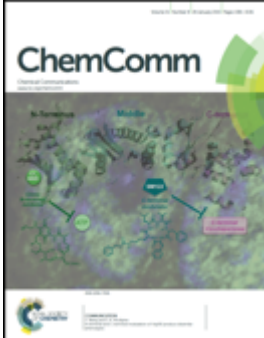

* Denotes PI on papers, order of authors indicates relative intellectual contributions, where first author contributed the most after the PI contribution, § denotes invited book chapters, and Undergraduate authors are underlined

79. RITA mimics: Synthesis and mechanistic evaluation of asymmetric linked Trithiazoles Adrian L. Pietkiewicz, [†] Yuqi Zhang, [†] Marwa N. Rahimi, Michael Stramandinoli, Matthew Teusner, and Shelli R. McAlpine* <i>ACS Med Chem Lett</i> in press. DOI: 10.1021/acsmedchemlett.6b00488 <i>Impact factor: 3.355</i>	2017 (UNSW)
78. Redefining the phenotype of Heat shock protein 90 (Hsp90) inhibitors Yao Wang, Yen Chin Koay, and Shelli R. McAlpine* <i>Chem Eur. J.</i> in press. 10.1002/chem.201604807 <i>Impact factor: 5.8</i>	2017 (UNSW)
77. How selective are Hsp90 inhibitors for cancer cells over normal cells? Yao Wang, Yen Chin Koay, and Shelli R. McAlpine* <i>ChemMedChem</i> in press. 10.1002/cmdc.201600595 <i>Impact factor: 2.98</i>	2017 (UNSW)
76. Reinventing Hsp90 inhibitors: Blocking C-terminal binding events to Hsp90 using dimerized inhibitors Yen Chin Koay, Hendra Wahyudi Shelli R. McAlpine* <i>Chem. Eur J.</i> V22, p18572-18582 <i>Impact factor: 5.8</i>	2016 (UNSW)
75. A novel class of Hsp90 C-terminal modulators have preclinical efficacy in prostate tumor cells without induction of a heat shock response Heather K. Armstrong, Yen Chin Koay, Swati Irani, Rajdeep Das, Zeyad D. Nassar, The Australian Prostate Cancer Bio resource, Luke A. Set, Margaret M. Centenera, Shelli R. McAlpine* and Lisa A. Butler* <i>The Prostate</i> V76, p1546-1559 <i>Impact factor: 3.565</i>	2016 (UNSW)
§74. Allosteric Modulators of Heat Shock Protein 90 (HSP90) Yen Chin Koay and Shelli R. McAlpine * <i>RSC Drug discovery series: "Allosterism in Drug Discovery"</i> DOI: 10.1039/9781782629276, p404-426	2016 (UNSW)
73. Hydrothermal synthesis of highly luminescent blue-emitting ZnSe(S) quantum dots exhibiting low toxicity Fatemeh Mimajafizadeh, Deborah Ramsey, Shelli R. McAlpine, Fan Wang, Peter Reece, and John Arron Stride*, <i>Mat. Science and Eng. C</i> V.64, p167-172 <i>Impact factor: 3.230</i>	2016 (UNSW)
72. Hitting a moving target: How does an N-Methyl group impact biological activity?	2016 (UNSW)

Yen Chin Koay, [Nicole L. Richardson](#), Samantha S. Zaiter, Jessica Kho, [Sheena Y. Nguyen](#), Daniel H. Tran, [Ka Wai Lee](#), Laura K. Buckton, , and Shelli R. McAlpine*
ChemMedChem. V11, p881-892 [Impact factor: 2.968](#)

71. **The first report of direct inhibitors that target the C-terminus MEEVD region on heat shock protein 90** 2016 (UNSW)
Laura K. Buckton, Hendra Wahyudi, and Shelli R. McAlpine*
Chem. Commun. V52, p501-504 [Impact factor: 6.834](#)
- §70. **Hsp47: The new heat shock protein therapeutic target** 2016 (UNSW)
George Sharbeen, Shelli R. McAlpine, Phoebe Phillips*
Springer Books: "Heat shock Proteins: Success Stories" DOI: 10.1007/7355_2015_89
- §69. **Are some Hsp90 therapies more effective than others? Evaluating dual Hsp90 and Hsp70 inhibition as an anticancer therapy** 2016 (UNSW)
Laura K Buckton, Yao Wang, Jeanette R. McConnell, and Shelli R. McAlpine*
Springer Books: "Heat shock Proteins: Success Stories" DOI: 10.1007/7355_2015_96.
- §68. **Heat shock protein 27: structure, function, cellular Role and inhibitors** 2016 (UNSW)
Rashid Mehmood* and Shelli R. McAlpine*
Springer Books: "Heat shock Proteins: Success Stories" DOI: 10.1007/7355_2015_94
- §67. **Targeting the c-terminus of heat shock protein 90 as a cancer therapy** 2016 (UNSW)
Jeanette R McConnell, Yao Wang, Shelli R. McAlpine*
Springer Books: "Heat shock Proteins: Success Stories" DOI: 10.1007/7355_2015_93
66. **Synthesis of the natural product Marthiapeptide A** 2015 (UNSW)
Yuqi Zhang, Amirul Islam, and Shelli R. McAlpine*
Org. Lett. V17, p5149-5151 [Impact factor: 6.364](#)
65. **Blocking the heat shock response and depleting HSF-1 levels through heat shock protein 90 (hsp90) inhibition: A significant advance over current chemotherapies** 2015 (UNSW)
Yen Chin Koay, Jeanette R. McConnell, Yao Wang, and Shelli R. McAlpine*
RSC Advances V5, 59003-59013 2015 [Impact factor: 3.84](#)
64. **Regulating the master regulator: controlling heat shock factor-1 as a chemotherapeutic** 2015 (UNSW)
Jeanette R. McConnell, Laura K Buckton, and Shelli R. McAlpine*
Bioorg. Med. Chem Lett. V25, 3409-3414 2015 [Impact factor: 2.427](#)
63. **Thioimidazoline based compounds reverse glucocorticoid resistance in acute lymphoblastic leukemia cells** 2015 (UNSW)
Cara Toscan, Marwa Rahimi, Mohan Bhadbhade, Russell Pickford, Shelli R. McAlpine* and Richard Lock*
Org. Biomol. Chem. V13, 6299-6312 2015 [Impact factor: 3.567](#)
62. **Predicating the unpredictable: recent examples of biologically active heterocycle-containing macrocycles** 2015 (UNSW)
Hendra Wahyudi and Shelli R. McAlpine*
Bioorganic Chem. V60, 74-97 2015 [Impact factor: 2.141](#)
61. **Activation of the Nuclear Factor kB inducing kinase as a mechanism of beta cell failure in obesity** 2015 (UNSW)
Elisabeth K. Malle, Nathan W. Zammit, Stacey N. Walters, Yen Chin Koay, Jianmin, Wu, Bernice, M. Tan, Jeanette E. Villanueva, Robert Brink, Tom Loudovaris, James Cantley, Shelli R. McAlpine, Daniel Hesselson, Shane T. Grey*
J. Exp. Med. V212, 1239-1254 2015 [Impact factor: 13.912](#)
60. **C-terminal heat shock protein 90 modulators produce desirable oncogenic properties**
Yao Wang and Shelli R. McAlpine*
Org. Biomol. Chem: V13, 4627-4631 2015 [Impact factor: 3.568](#)



59. **Combining an Hsp70 inhibitor with either an N-terminal and C-terminal hsp90 inhibitor produces mechanistically distinct phenotypes** 2015 (UNSW)
Yao Wang and Shelli R. McAlpine*
Org. Biomol. Chem. V13, 3691-3698 2015 *Impact factor: 3.568*
58. **Heat shock protein 90 inhibitors: will they ever succeed as chemotherapeutics?** 2015 (UNSW)
Yao Wang, and Shelli R. McAlpine*
Future Med. Chem. V7, 2, 87-90 2015 *Impact factor: 3.31*
57. **Regulating the cytoprotective response in cancer cells using simultaneous inhibition of Hsp90 and Hsp70** 2015 (UNSW)
Yao Wang, and Shelli R. McAlpine*
Org. Biomol. Chem. V13, 2108-2116 2015 *Impact factor: 3.568*
56. **Design, Synthesis and anticancer activity of linked azoles** 2015 (UNSW)
Amirul Islam, Yuqi Zhang, Yao Wang, and Shelli R. McAlpine*
Med. Chem. Comm. V6, 300-305 2015 *Impact factor: 2.626*
55. **The fungal natural product (1S, 3S)-austrocortirubin induces DNA damage via a mechanism unique from other DNA damaging agents** 2015 (UNSW)
Yao Wang ∞, Md. Amirul Islam ∞, Rohan A. Davis, and Shelli R. McAlpine*
Bioorg. Med. Chem Lett. V25, 249-253 2015 *Impact factor: 2.427*
54. **N-terminal and C-terminal modulation of hsp90 produce dissimilar phenotypes** 2015 (UNSW)
Yao Wang and Shelli R. McAlpine*
Chem. Comm. V51, 1410-1413 2015 *Impact factor: 6.834*
ON THE COVER OF THE JOURNAL
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53. **HSP90 inhibitors and conjunctival melanoma** 2014 (UNSW)
M Madigan,* X. Quah, S. McAlpine, and R. M. Conway
Acta Ophthalmologica. V92, s253 2014 *Impact factor: 2.512*
52. **Synthesis of macrocycles that inhibit protein synthesis: stereochemistry and structural based studies on sanguinamide B derivatives** 2014 (UNSW)
Adrian L Pietkiewicz, Hendra Wahyudi, Jeanette, R, McConnell, and Shelli R. McAlpine *
Tetrahedron Lett. V55, 6979-6982 2014 *Impact factor: 2.391*
ON THE COVER OF THE JOURNAL
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51. **Chemically accessible hsp90 inhibitor that does not induce a heat shock response** 2014 (UNSW)
Yen Chin Koay, Jeanette R. McConnell, Yao Wang, Seong Jong Kim, Laura

K. Buckton, Flora Mansour and Shelli R. McAlpine*
ACS Med. Chem. Lett. V5, 771-776, 2014 *Impact factor: 3.355*

50. **Synthesis and cytotoxicity of sanguinamide B analogs: identification of an active macrocyclic conformation** 2014 (UNSW)
Hendra Wahyudi, Worawan Tantisantisom, and Shelli R. McAlpine*
Tetrahedron Lett. V55, 2389-2393, 2014, *Impact factor: 2.391*
ON THE COVER OF THE JOURNAL



- §49. **Recent Advances in Macrocyclic Hsp90 Inhibitors** 2014 (UNSW)
Deborah Ramsey, R.R. A Kitson, J. I Levin, C. J Moody*, and S. R. McAlpine*
RSC Books: Macrocycles in Drug Discovery; DOI:10.1039/9781782623113-00037; p37-77
48. **A Heat shock protein 90 inhibitor that modulates the immunophilins and regulates hormone receptors without inducing a heat shock response** 2014 (UNSW)
Jeanette R. McConnell, Leslie D. Alexander, and Shelli R. McAlpine*
Bioorg. Med. Chem Lett. V24, p661-666, 2014 *Impact factor: 2.427*
47. **Utilizing a Dimerization strategy to inhibit the dimer protein Hsp90: Synthesis and biological activity of a sansalvamide A dimer** 2014 (UNSW)
Hendra Wahyudi, Yao Wang, and Shelli R. McAlpine*
Org. Biomol. Chem. V12, p765-773 2014 *Impact factor: 3.568*
46. **Total synthesis and biological activity of the natural product Urukthapelstatin A** 2013 (UNSW)
Chun Chieh Lin, Worawan Tantisantisom, and Shelli R. McAlpine*
Org. Lett. V15, p3574-3577, 2013 *Impact factor: 6.364*
45. **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*
Org. Lett. V15, p4638-4641, 2013 *Impact factor: 6.364*
44. **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*
ACS Med. Chem. Lett V4, p915-920, 2013 *Impact factor: 3.311*
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*
Bioorg. Med. Chem Lett. V23, p4862-4866, 2013 *Impact factor: 2.427*
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*
Bioorg. Med. Chem Lett. V23, p2527-2531 2013 *Impact factor: 2.427*
41. **Heat shock proteins 27, 40, and 70 as combinational therapeutic targets** 2013 (UNSW)
Jeanette R. McConnell and Shelli R. McAlpine*
Bioorg. Med. Chem. Lett. V23, p1923-1928, 2013 *Impact factor: 2.427*
40. **An efficient synthetic route for synthesizing macrocycles that contain heterocycles: Solid Phase versus Solution Phase Synthesis** 2013 (UNSW)
Seong Jong Kim and Shelli R. McAlpine*

39. **A structure-activity relationship study on multi-heterocyclic molecules: two linked thiazoles are required for cytotoxic activity** 2013 (UNSW)
Seong Jong Kim, Chun Chieh Lin, Chung-Mao Pan, Dimple P. Rananaware, Deborah M. Ramsey, and Shelli R. McAlpine*
Med. Chem. Comm. V4, p406-410, 2013 *Impact factor: 2.626*
38. **Halting Metastasis through CXCR4 inhibition** 2013 (UNSW)
Deborah M. Ramsey* and Shelli R. McAlpine*
Bioorg. Med. Chem. Lett. V23, p20-25, 2013 *Impact factor: 2.427*
37. **Synthesis, structure-activity analysis, and biological evaluation of structurally related conformational isomers** 2012 (UNSW)
Hendra Wahyudi, Worawan Tantisantisom, Xuechao Liu, Deborah M. Ramsey, Erinprit K. Singh, and Shelli R. McAlpine*
J. Org. Chem. v77, p10596-10616, 2012 *Impact factor: 4.564*
36. **A new Hsp90 inhibitor that exhibits a novel biological profile** 2012 (UNSW)
Deborah M. Ramsey, Jeanette R. McConnell, Leslie D. Alexander, Kaishin W. Tanaka, Chester M. Vera, and Shelli R. McAlpine*
Bioorg. Med. Chem. Lett. v22, p3287-3290, 2012 *Impact factor: 2.427*
35. **Progress towards the synthesis of Urukthapelstatin A and two analogs** 2012 (UNSW)
Chung-Mao Pan, Chun-Chieh Lin, Seong Jong Kim, Robert P. Sellers, and Shelli R. McAlpine*
Tetrahedron Lett., v53, p4065-4069, 2012 *Impact factor: 2.391*
34. **Total Synthesis of Natural Product *trans,trans*- Sanguinamide B and its structurally related conformational isomers** 2012 (UNSW)
Erinprit K. Singh, Deborah M. Ramsey, and Shelli R. McAlpine*
Org. Lett. v14, p1198-1201, 2012 *Impact factor: 6.364*
33. **Synthesis of Sansalvamide A Peptidomimetics: Triazole Oxazole, Thiazole, and Pseudoproline containing compounds** 2012 (UNSW)
Melinda R. Davis, Erinprit K. Singh, Hendra Wahyudi, Leslie D. Alexander, Joseph Kunicki, Lidia A. Nazarova, Kelly A. Fairweather, Andrew Giltrap, Katrina A. Jolliffe, and Shelli R. McAlpine*
Tetrahedron, v68, p1029-1051, 2012 *Impact factor: 2.899*
32. **Macrocycles that inhibit the binding between heat shock protein 90 and TPR-containing proteins** 2011 (UNSW)
Veronica C Ardi, Leslie D. Alexander, Victoria Johnson, and Shelli R. McAlpine*
ACS Chem. Biol. v6, p1357-1367, 2011 *Impact factor: 5.442*
31. **Small Molecule Inhibitors of Hsp90's Conformational Changes** 2011 (UNSW)
Leslie D. Alexander, James Partridge, David Agard, and Shelli R. McAlpine*
Bioorg. Med. Chem. Lett. v21, p7068-7071, 2011 *Impact factor: 2.427*
30. **Synthesis and Evaluation of Biotinylated Sansalvamide A Analogs and their modulation of Hsp90** 2011 (UNSW)
Joseph Kunicki, Mark Petersen, Leslie D. Alexander, Veronica C. Ardi, Jeanette McConnell, and Shelli R. McAlpine*
Bioorg. Med. Chem. Lett., v21, p4716-4719, 2011 *Impact factor: 2.427*
29. **A third generation of Sansalvamide A derivatives: Design and synthesis of Hsp90 inhibitors** 2010 (SDSU)
Robert P. Sellers, Leslie D. Alexander, Victoria A. Johnson, Chun-Chieh Lin, Jeremiah Savage, Ricardo Corral, Jason Moss, Tim S. Slugocki, Erinprit K. Singh, Melinda R. Davis, Suchitra Ravula, Jamie E. Spicer, Jenna L Oelrich, Andrea Thornquist, Chung-Mao Pan, and Shelli R. McAlpine*
Bioorg. Med. Chem. v18, p6822-6856 2010 *Impact factor: 3.205*
28. **Histone deacetylase inhibitors: Synthesis of cyclic tetrapeptides & their** 2010 (SDSU)

triazole analogs

Erinprit K. Singh, Lidia A. Nazarova, Stephanie A. Lapera, Leslie D. Alexander and Shelli R. McAlpine*

Tetrahedron Lett. v51, p4357-4360 2010 *Impact factor: 2.391*

27. **Macrocyclic inhibitors of Hsp90** 2010 (SDSU)
Victoria A. Johnson, Erinprit K. Singh, Lidia A. Nazarova, Leslie D. Alexander, and Shelli R. McAlpine*
Curr. Top. Med. Chem. v23, p1380-1402 2010 *Impact factor: 4.900*
26. **Mechanistic studies of Sansalvamide A-amide: An allosteric modulator of Hsp90** 2010 (SDSU)
Robert C. Vasko, Rodrigo A. Rodriguez, Christian Cunningham, Veronica Ardi, David Agard, and Shelli R. McAlpine*
ACS Med. Chem. Lett. v1, p4-8 2010 *Impact factor: 3.311*
25. **Evaluation of Di-Sansalvamide A derivatives: synthesis, SAR, and Mechanism of action** 2009 (SDSU)
Leslie D. Alexander, Robert P. Sellers, Melinda R. Davis, Veronica C. Ardi, Victoria A. Johnson, Robert C. Vasko and Shelli R. McAlpine*
J. Med. Chem. (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** 2009 (SDSU)
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*
Bioorg. Med. Chem., v17, p5806-5825 2009 *Impact factor: 3.311*
23. **Structure-activity relationships of Sansalvamide A derivatives and their mechanism of action in the pancreatic cancer cell line PL-45** 2008 (SDSU)
Rodrigo A. Rodriguez, Po-Shen Pan, Robert C. Vasko, Chung-mao Pan, William Disman, and Shelli R. McAlpine*
J. Mex. Chem. Soc., v52, p201-211, 2008
22. **Conformational based design of macrocycles as antitumor agents** 2008 (SDSU)
Erinprit K. Singh, Robert P. Sellers, Leslie D. Alexander and Shelli R. McAlpine*
Curr. Opin. Drug Discovery Dev., v11, p544-552, 2008 *Impact factor: 5.120*
21. **Synthesis and biological evaluation of Histone Deacetylates inhibitors that are based on the FR235222 scaffold** 2008 (SDSU)
Erinprit Singh, Suchitra Ravula, Chung-mao Pan, Po-Shen Pan, Robert C. Vasko, Stephanie A. Lapera, Sujith, Mary Kay Pflum, and Shelli R. McAlpine*
Bioorg. Med. Chem. Lett., v18, p2549-2554, 2008 *Impact factor: 2.427*
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*
Org. Lett., v10, p177-180, 2008 *Impact factor: 6.364*
19. **A comprehensive study of Sansalvamide A derivatives and their structure-activity relationships against drug-resistant colon cancer cell lines.** 2008 (SDSU)
Katerina Otrubova, Gerald H. Lushington, David Vander Velde, Kathleen L. McGuire, and Shelli R. McAlpine*
J. Med. Chem., v51, p530-544, 2008 *Impact factor: 5.614*
18. **Identification of compounds potent against pancreatic cancer cell lines** 2007 (SDSU)
Po-Shen Pan, Kathleen L. McGuire, and Shelli R. McAlpine*
Bioorg. Med. Chem. Lett., v17, p5072, 2007 *Impact factor: 2.427*
17. **A novel platform targeting drug-resistant colon cancers** 2007 (SDSU)
Katerina Otrubova, Kathleen L. McGuire and Shelli R. McAlpine*
J. Med. Chem. (letter), v50, p1999- 2002, 2007 *Impact factor: 5.614*
16. **Synthesis of second generation Sansalvamide A derivatives: Novel** 2007 (SDSU)

Templates as Potential Anti-tumor Agents

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

J. Org. Chem., v72, p1980-2002, 2007 **Impact factor: 4.564**

15. **Synthesis of Sansalvamide A derivatives and their cytotoxicity in colon cancer cell line HT-29** 2006 (SDSU)
Thomas J. Styers, Ahmet Kecec, Rodrigo Rodriguez, Joseph D. Brown, Julia Cajica, Chris L. Carroll, Po-Shen Pan, Irene Medina, Ricardo Corral, Jennifer V. C. Johnston, Emily Parry, Stephanie Lopera, Katerina Otrubova, Kathleen L. McGuire,* and Shelli R. McAlpine*
Bioorg. Med. Chem., v14, p5625-5631, 2006 **Impact factor: 3.311**
14. **Novel Antibiotics: C-2 symmetrical macrocycles affecting Holliday Junction DNA processing** 2006 (SDSU)
Po-Shen Pan, Fiona A. Curtis, Chris L. Carroll, Irene Medina, Lisa A. Liotta, Gary J. Sharples, and Shelli R. McAlpine*
Bioorg. Med. Chem., v14, p4731-4739, 2006 **Impact factor: 3.311**
13. **Synthesis and novel structure-activity relationships of potent Sansalvamide A derivatives** 2006 (SDSU)
Katerina Otrubova, Thomas J. Styers, Po-Shen Pan, Rodrigo Rodriguez, Kathleen L. McGuire,* and Shelli R. McAlpine*
Chem. Comm. p1033-1034, 2006 **Impact factor: 6.834**
12. **Synthesis of novel Sansalvamide A Derivatives via new, high yielding macrocyclization conditions** 2006 (SDSU)
Thomas J. Styers, Rodrigo Rodriguez, Po-Shen Pan, and Shelli R. McAlpine*
Tetrahedron Lett., v47, p515-517, 2006 **Impact factor: 2.391**
11. **Synthesis of novel anti-tumor agents: Sansalvamide A derivatives** 2005 (SDSU)
Chris L. Carroll, Jennifer V. C. Johnston, Ahmet Kecec, Joe Brown, Emily Parry, Julia Cajica, Irene Medina, Kristina M. Cook, Po-Shen Pan, and Shelli R. McAlpine*
Org. Lett., v7 p3481-3484, 2005 **Impact factor: 6.364**
10. **Novel Antibiotics: second generation macrocyclic peptides designed to trap holliday junctions** 2004 (SDSU)
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*
Tetrahedron Lett., v45, p8447-8450 2004 **Impact factor: 2.376**
9. **Understanding Diseases via Receptor Regulation** 2004 (SDSU)
Shelli R. McAlpine
Chem. and Biol., v11, p157-158 2004 **Impact factor: 6.097**
8. **A progressive synthetic strategy for Class B Synergimycins** 2004 (SDSU)
Jennifer L. Robinson, Rachel E. Taylor, Lisa A. Liotta, Megan L. Bolla, Enrique V. Azevedo, Irene Medina, and Shelli R. McAlpine*
Tetrahedron Lett., v45, p2147-2150 2004 **Impact factor: 2.376**
7. **Novel Antibiotics: Macrocyclic Peptides Designed to Trap Holliday Junctions** 2003 (SDSU)
Megan L. Bolla, Enrique V. Azevedo, Jason M. Smith, Rachel E. Taylor, Dev K. Ranjit, Anca M. Segall, and Shelli R. McAlpine*
Organic Lett., v5, p109-112 2003 **Impact factor: 6.364**
6. **Determination of Functional Group Distribution within Rasta Resins Utilizing Optical Analysis** 2001 (SDSU)
S. R. McAlpine*, C. W. Lindsley, J. C. Hodges*, D. M. Leonard, G. F. Filzen
J. Comb. Chem., v3, p.1-5 2001 **Impact factor: 3.636**

Graduate and Post-doctoral publications

5. **Visualizing Functional Group Distribution in Solid Support Beads using Optical Analysis** 1999 (Harvard)
S. R. McAlpine,* S. L. Schreiber,
Chem.- Eur. J., v5, p.3528 1999 *Impact factor: 5.831*
4. **Studies of Naphthyl-Substituted β -Cyclodextrins. Self-Aggregation and Inclusion of External Guests** 1998 (UCLA)
S. R. McAlpine, M. A. Garcia-Garibay*
J. Am. Chem. Soc., v120, p. 4269 1998 *Impact factor: 10.677*
3. **C32-O-Imidazol-2-yl-methyl Ether Derivatives of the Immunosuppressant Ascomycin with Improved Therapeutic Potential** 1998 (UCLA)
M. T. Goulet*, S. R. McAlpine; M. Staruch, S. Koprak, F. J. Dumont, J. G. Cryan, G. J. Wiederrecht, R. Rosa, M. B. Wilusz, L. B. Peterson, M. J. Wyvratt, W. H. Parsons
Bioorg. Med. Chem. Lett., 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** 1996 (UCLA)
S. R. McAlpine, M. A. Garcia-Garibay*
J. Org. Chem., v61, p. 8307 1996 *Impact factor: 4.564*
1. **Inside-Outside Isomerism of β -Cyclodextrin Covalently Linked with a Naphthyl Group** 1996 (UCLA)
S. R. McAlpine, M. A. Garcia-Garibay*
J. Am. Chem. Soc., v118, p. 2750-2751 1996 *Impact factor: 10.677*

Other Publications

1. **Life as an academic: being a female assistant professor in chemistry** 2006 (SDSU)
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

- | | |
|---|-------------|
| <p>A novel small molecule that blocks the ribosomal inhibitor
S. R. McAlpine
<i>Invention disclosure filed 2013,</i></p> | 2013 (UNSW) |
| <p>Using both hsp70 and Hsp90 inhibitors to target resistant cancers
S. R. McAlpine
<i>Invention disclosure filed 2013,</i></p> | 2013 (UNSW) |
| <p>Hsp90 inhibitor attached to a nanoparticle
S. J. Kim, D. Ramsey, C. Boyer, T. Davis S. R. McAlpine
<i>Patent Application: Application number 2013902460</i></p> | 2013 (UNSW) |
| <p>Decapeptides that show potent anticancer activity
S. R. McAlpine
<i>Provisional Patent Application filed 2008,</i></p> | 2008 (SDSU) |
| <p>Cyclic pentapeptides for treatment of cancers
S. R. McAlpine
<i>Utility Patent Application filed 2007, Provisional Application filed 2006</i></p> | 2006 (SDSU) |
| <p>Macrocyclic peptides: methods for making and using them
K. L. McGuire, S. R. McAlpine*
<i>Provisional Patent Application filed March 2006, serial NO. 60/783,298,</i>
<i>Provisional Patent Application filed May 2006, serial NO. 60/797,111,</i>
<i>Utility Application Serial NO. 11/436,378</i></p> | 2006 (SDSU) |

Combinatorial Organic Synthesis of Unique Biologically Active Compounds 2002 (SDSU)

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 1998 (Harvard)

"Using solid-phase ¹H & ¹⁹F 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

6. *Springer Publishing, Topics in Medicinal Chemistry- Co-Editor* 2015 (UNSW)
Heat shock protein inhibitors: success stories
Shelli R. McAlpine
5. *ACS: Annual Reports in Medicinal Chemistry- oncology editor* 2013 (UNSW)
Shelli R. McAlpine
4. *ACS: Annual Reports in Medicinal Chemistry- oncology editor* 2012 (UNSW)
Shelli R. McAlpine
3. *ACS: Annual Reports in Medicinal Chemistry- oncology editor* 2011 (UNSW)
Shelli R. McAlpine
2. *ACS: Annual Reports in Medicinal Chemistry- oncology editor* 2010 (SDSU)
Shelli R. McAlpine
1. *ACS: Annual Reports in Medicinal Chemistry- oncology editor* 2009 (SDSU)
Shelli R. McAlpine

Funding

Research Grants (Total funded= \$3,717,763)

Funded

UNSW Faculty Interdisciplinary Grant: "Demonstrating that a class of cancer therapeutics induces diabetes" 2015
Jan
CIA is S. R. McAlpine, CIB is Shane Grey Garvan; \$5000 + \$20,000 after successful collaboration

MREII Equipment grant: "Purchasing a DLS and GPC system for polymer And biological systems" 2014
Jan
CIA is S. R. McAlpine; \$120,000 total

NHMRC/ UNSW gold star: "Therapeutically targeting heat shock proteins In the stroma of pancreatic cancer" 2014
Jan
CIC is S. R. McAlpine; \$50,000 total

NHMRC (GNT1043561): "Developing novel molecules that target hormone receptors as an alternative cancer therapy" 2013
Jan
CIA is S. R. McAlpine; \$443,994 total

NIH R01 (NCI 1 R01CA137873): " Conformational based Design and development of antitumor agents" 2009
June
P.I. is S. R. McAlpine; \$1,273,973 total

NIH U54 (1 U54 CA132384-01A1): "Evaluation of novel Sansalvamide A derivatives as antitumor agents" 2008
Oct
P.I. of project: S. R. McAlpine and S. Howell; P.I. of Grant: L. Klonnoff, S. Maloy, J. Carathers, A. Navaro; \$1,104,046 for project, ~\$15,000,000 for grant

University of Sydney, Visiting Research Fellow: "Synthesis of conformationally constrained macrocycles" 2008
June

P.I. is S. R. McAlpine; \$17,500

University Grants Program, SDSU: "Synthesis of FR235222 derivatives" 2008

P.I. is S. R. McAlpine; \$10,000 Jan

PFIZER, La Jolla: "Unrestricted gift" 2008

P.I. is S. R. McAlpine; \$2,000 Jan

CSUPERB/CRT: "Determining the mechanism of action for novel anticancer 2007

agents: Sansalvamide A derivatives July

P.I. is S. R. McAlpine; \$43,000

Frasch Foundation (658-HF07): "Therapeutic Development of new antibiotics" 2007

P.I. is S. R. McAlpine \$250,000 July

Merck and Co: "Synthesis of four Sansalvamide A derivatives" 2006

P.I. is S. R. McAlpine; \$5,000 Oct

SDSU Foundation: "Synthesis of anti-tumor agents" 2006

P.I. is S. R. McAlpine; \$12,500 June

SDSU College of Sciences: "Synthesis of anti-tumor agents" 2006

P.I. is S. R. McAlpine; \$12,500 March

CSUPERB Joint Venture Grant: "Synthesis of Novel C-2 Symmetrical 2005

Macrocycles and their Biological Activity" July

P.I. is S. R. McAlpine; Co-PI Daryl Saur Abbott Labs \$30,000

NIH (AI058241-01): "Novel antibiotics: Site specific Recombination Inhibitors" 2003

P.I. is S. R. McAlpine; \$150,000 December

CSUPERB Seed Grant: "The Development of Organozinc Chemistry" 2003

P.I. is S. R. McAlpine; \$9,500 December

Faculty Development Program: "The Synthesis of peptides and 2003

peptidomimetics: New antibiotics" January

P.I. is S. R. McAlpine; \$3000

Boehringer-Ingelheim Pharmaceuticals: "Synthesis of New Antibiotics" 2002

P.I. is S. R. McAlpine; \$50,000 September

Research, Scholarship, and Creative Activity: "Solid-Phase 2001

Organozinc Additions: Utilized in Natural Product Analog Libraries" January

P.I. is S. R. McAlpine; \$1750

Grant in Aid: "Enantioselective Macrocyclizations Using Organozinc 2001

Additions to Aldehydes" January

P. I. is S. R. McAlpine; \$4000

Research, Scholarship, and Creative Activity: "Solid-Phase 2001

Organozinc Additions: Utilized in Natural Product Analog Libraries" October

P.I. is S. R. McAlpine; \$2000

Departmental Grants (Total = \$98,000)

Pfizer Minority Student Research Fellowship: (Sept. 2004-May 2005) 2004

For minority undergraduates participating in organic chemistry research September

P.I. is S. R. McAlpine; \$26,000 (total-no indirect costs)

Pfizer, La Jolla ACS Student Travel Award: 2004

Supporting students for travel to National ACS meetings May

P.I. is S. R. McAlpine; \$1500 (total-no indirect costs)

Pfizer Minority Student Research Fellowship: (Sept. 2003-May 2004) 2003

For minority undergraduates participating in organic chemistry research September

P.I. is S. R. McAlpine; \$26,000 (total-no indirect costs)

Pfizer, La Jolla ACS Student Travel Award:

Supported 7 students for travel to a National ACS meeting

P.I. is S. R. McAlpine; \$1500 (total-no indirect costs)

2003

May

CSUPERB ACS Student Travel Award:

Supported 5 students for Travel to a National ACS meeting

P.I. is S. R. McAlpine; \$1000-matched to Pfizer award (total- no indirect costs)

2003

May

Pfizer Minority Student Research Fellowship: (Jan. 2003-May 2003)

For minority undergraduates participating in organic chemistry research

Co-P.I. is S. R. McAlpine; \$39,000 (total-no indirect costs)

2002

January

Pfizer NMR Computer Grant:

Purchased new computers for NMR equipment in department

P.I. is S. R. McAlpine; \$3000 (total-no indirect costs)

2002

January

Theses Chaired (45 total: 18 Ph.D., 14 M.Sc., 13 Honours)

- 1. Leo Lee (Honours)** Current
Synthesis of N-methylated analogs that target Hsp90: will N-Me facilitate cell entry?
- 2. Yuantao Huo (M.Sc.)** Current
Synthesis and mechanism of action studies of heat shock protein 70 inhibitors
- 3. Jessica Kho (Ph.D.)** Current
Synthesis and mechanism of action studies of heat shock protein 27 inhibitors
- 4. Marwa Rahimi (Ph.D.)** Current
Synthesis and mechanism of action studies of heat shock protein 90 inhibitors
- 5. Samantha Zaiter (Ph.D.)** Current
Synthesis and mechanism of action studies of heat shock protein 70 inhibitors
- 6. Laura Buckton (Ph.D.)** Current
Defining the phenotype when directly inhibiting the C-terminus of heat shock protein 90
- 7. Yuqi Zhang (Ph.D.)** Current
Synthesis and mechanistic evaluation of linear and macrocyclic heterocyclic containing molecules with anti-cancer activity
- 8. Adrian Pietkiewicz (Ph.D.)** Current
Synthesis of Sanguinamide B and other heterocyclic-based molecules as anticancer agents
- 9. Nicole Richardson (Honours)** Honours 2016
Synthetic probes for evaluating binding of Hsp90 and Hsp70 C-terminal inhibitors November
- 10. Michael Stramandinoli (Honours)** Honours 2016
Studies towards the total Synthesis of Marthiapeptide A November
- 11. Daniel Tran (Honours)** Honours 2016
Design and Synthesis of heat shock protein 27 disruptors November
- 12. Koay Yen Chin (Ph.D.)** Ph.D. 2016
Design, synthesis and Evaluation of C-terminal Hsp90 modulators as anticancer agents November
- 13. Yao Wang (Ph.D.)** Ph.D. 2016
Determining the impact of allosteric hsp90 inhibitors on the heat shock response, And the impact on cancer cells when combining these with hsp70 inhibitors April
- 14. Cara Tocan (Joint Ph.D.)** Ph.D. 2016
Reversal of glucocorticoid resistance in paediatric acute lymphoblastic leukaemia. April
- 15. Jessica Kho (Honours)** Honours 2015

<i>De novo design and synthesis of heat shock protein 27 inhibitors</i>	November
16. Michelle Cheung (Honours) <i>Evaluation of the heat shock protein Grp94: role in the heat shock response</i>	Honours 2015 November
17. Vanessa Hunt (Honours) <i>Synthesis of heat shock protein 70 inhibitors via denovo design</i>	Honours 2015 November
18. Jeanette McConnell (Ph.D.) <i>Synthesis and biological evaluation of allosteric (SM series) hsp90 inhibitors as molecular tools and anticancer therapeutics.</i>	Ph.D. 2015 November
19. Amirul Islam (Ph.D.) <i>Screening, synthesis and mechanism of action of heterocyclic containing molecules.</i>	Ph.D 2015 May
20. Marwa Rahimi (Honours) <i>Synthesis of small molecules that induce reversal of glucocorticoid resistance in acute lymphoblastic leukaemia</i>	Honours 2014 November
21. Laura Buckton (Honours) <i>Denovo design, Synthesis and Biological Evaluation of Hsp90 inhibitors targeting the C-terminus</i>	Honours 2014 November
22. Hendra Wahyudi (Ph.D.) <i>Development of Lead Structures that are cytotoxic and are derived from Macrocyclic Natural Products.</i>	Ph.D. 2014 August
23. Seong Jong Kim (Ph.D.) <i>A Novel Study Of Macrocyclic Anticancer Agents: Total Synthesis Of Urukthapelstatin A And Nanoparticle Hsp 90 Inhibitor Delivery System</i>	Ph.D. 2014 September
24. Yuqi Zhang (Honours) <i>Synthesis and Biological Evaluation of heterocycles</i>	Honours 2013 November
25. Chun-Chieh Lin (Ph.D.) <i>Design and Synthesis of Macrocyclic Peptides with Anti-cancer Potency</i>	Ph.D. 2013 August
26. Worawan Tantisantisom (M.Sc.) <i>Synthesis and Evaluation of Sanguinamide B analogs and their mechanism of action</i>	M.Sc. 2013 July
27. Kai Buy (Honours) <i>Mechanistic Studies of Organometallic Rh and Ir complexes</i>	Honours 2012 November
28. Chung-Mao Pan (Ph.D.) <i>Synthesis and Evaluation of Macrocycles as Potential Antitumor Agents</i>	Ph.D. 2012 August
29. Maria Barbara Guillern (M.S.) <i>Sansalvamide A and Heat Shock Protein 90 Binding</i>	M.Sc. 2012 August
30. Erinprit Singh (Ph.D) <i>Design and Synthesis of Bioactive Macrocyclic Natural Products</i>	Ph.D. 2012 June
31. Leslie Alexander (Ph.D) <i>Design, Synthesis, and Mechanistic studies of Sansalvamide A Derivatives</i>	Ph.D. 2012 June
32. Robert Sellers (M.S.) <i>Synthesis of Macrocyclic Anticancer agents: San A derivatives and U-stat A</i>	M.Sc. 2012 April
33. Jeremiah Savage (M.S.) <i>Development and Application of Multi-compound clustering of CK2 and Hsp90</i>	M.Sc. 2012 January
34. Kaishen Tanaka (Honours) <i>Mechanistic Studies of Sansalvamide A 185</i>	Honours, 2011 November

35. Chester Vera (Honours) <i>Macrocycles and Peptidomimetics</i>	Honours, 2011 November
36. Victoria Johnson (M.S.) <i>Design, Synthesis, and Biological activity of Sansalvamide A derivatives</i>	M.Sc. 2011 June
37. Suchitra Ravula (M.S.) <i>Design and Synthesis of Sansalvamide A and FR235222 Derivatives</i>	M.Sc. 2010 January
38. Melinda Davis (M.S.) <i>Design and Synthesis of Sansalvamide A and Di-sansalvamide A derivatives</i>	M.Sc. 2009 April
39. Stephanie Lopera (M.S.) <i>Design and Synthesis of Anticancer Agents: Sansalvamide A and Histone Deacetylase</i>	M.Sc. 2008 December
40. Po-Shen Pan (Ph.D.) <i>Design of Macrocycles and their Biological Evaluation as Antitumour agents</i>	Ph.D. 2008 September
41. Katerina Otrubova (M.S.) <i>Synthesis and Structure-Activity Relationships of Sansalvamide A derivatives</i>	M.Sc. 2007 December
42. Joseph Brown (M.A.) <i>Synthesis and Evaluation Sansalvamide A derivatives</i>	M.A. 2007 May
43. Ahmet Kecec (M.S.) <i>Synthesis & Evaluation of Sansalvamide A derivatives and HIV-1 integrase inhibitors</i>	M.Sc. 2007 Jan
44. Lisa Liotta (M.S.) <i>Design and Synthesis of Biologically Interesting Macrocyclic Peptides and Depsipeptide</i>	M.Sc. 2005 April
45. Jennifer Robinson (M.S.) <i>Novel Antibiotics: Synthesis of Class B Synergimycines</i>	M.Sc. 2004 July

Student Mentoring

Fellowships Awarded to McAlpine Research Group: Undergraduate students are underlined
Total September 2000- current = \$495,606 (114 Fellowships)

Money is awarded to students for Salary, Supplies, and Travel relating to research in group

• <u>Jeannette McConnell</u> University of New South Wales: <i>MIRT travel funds</i> \$4000	\$4000	June 2011
• <u>Leslie Alexander</u> NIH Graduate fellowship	\$51,607	June 2011
• <u>Tim Slugocki</u> Howell Research Fellowship	\$3,000	Jan 2010
• University of Sydney, (3 graduate students): <i>IRA travel funds</i> \$1500 <i>MIRT travel funds</i> \$6000	\$7,500	Dec 2009
• <u>Robert Vasko</u> NIH Research Fellowship at SDSU	\$12,000	July 2009
• Salt lake city, ACS conference (1 undergrad student): <i>IRA travel funds</i> \$150 <i>NIH travel funds</i> \$714	\$864	Mar 2009
• <u>Phili</u> , ACS conference (2 students): <i>IRA travel funds</i> \$400 <i>NIH travel funds</i> \$500	\$900	Aug 2008
• <u>William Disman</u> NIH Computational Research Fellowship at SDSU	\$12,000	July 2008
• <u>Robert Vasko</u> NIH Computational Research Fellowship at SDSU	\$12,000	July 2008
• <u>Leslie Alexander</u> Carl Storm fellowship for Bioorganic GRC	\$600	June 2008
• <u>Ryan Barker</u> McNair Summer Research Fellowship	\$2,800	June 2008
• <u>Andrea Thornquist</u> MBRS NIH Research Fellowship	\$3,000	June 2008
• University of Sydney, (8 students): <i>IRA travel funds</i> \$2500	\$12,600	Mar 2008

MIRT travel funds	\$1500	
Frasch travel funds	\$6450	
NIH travel funds	\$750	
International travel funds	\$1400	
• Robert Vasko Howell Research Fellowship at SDSU	\$3,000	Jan 2008
• Boston, ACS conference (3 students):	\$1685	Aug 2007
IRA travel funds	\$350	
CSUPERB travel funds	\$1335	
• William Disman NIH Computational Research Fellowship at SDSU	\$12,000	July 2007
• Chicago, ACS conference (2 students):	\$900	Mar 2007
IRA travel funds	\$900	
• Rodrigo Rodriguez PREP Research Fellowship at SDSU	\$12,000	Jan 2007
• Kevin Rynearson Howell Research Fellowship at SDSU	\$2,500	Jan 2007
• Rodrigo Rodriguez Howell Research Fellowship at SDSU	\$2,500	Jan 2007
• San Francisco, ACS conference (2 students):	\$892	Sept 2006
CSUPERB travel funds	\$892	
• Travel to International Peptide Conference (1 student):	\$1,000	July 2006
SDSU international Travel Grant	\$1000	
• Rodrigo Rodriguez MARC NIH Research Fellowship	\$6,500	Sept 2006
• Yalda Mostofi McNair Summer Research Fellowship	\$2,800	June 2006
• Rodrigo Rodriguez Pfizer Minority Summer Fellowship at SDSU	\$5,000	June 2006
• Thomas Styers Pfizer SURF Research Fellowship	\$5,000	June 2006
• Atlanta, D.C. ACS conference (2 students):	\$1400	Mar 2006
a) MARC funds	\$1000	
b) IRA funds	\$400	
TOTAL	\$1400	
• Julia Cajia PREP NIH Research Fellowship (Jan 06-Mar 06)	\$3,000	Jan 2006
• Thomas Styers Howell Research Fellowship at SDSU	\$2,500	Jan 2006
• Washington, D.C. ACS conference (2 students):	\$1163	Nov 2005
a) CSUPERB	\$763	
b) IRA funds	\$400	
TOTAL	\$1163	
• Rodrigo Rodriguez MARC NIH Research Fellowship	\$13,000	Sept 2005
• Julia Cajia MBRS NIH Research Fellowship(Sept 05 -Jan06)	\$7,000	Sept 2005
• Crystal Sanchez Pfizer-SDSU year long Minority Research Fellow	\$13,000	Sept 2005
• Travel to Chemistry Gordon Conference (1 student):	\$1,350	Aug 2005
a) Gordon Conference Travel Fund	\$1000	
b) IRA travel support	\$350	
• Thomas Styers Pfizer Summer Research Fellowship at SDSU	\$4,000	June 2005
• Rodrigo Rodriguez McNair Summer Research Fellowship	\$2,800	June 2005
• Travel to Australia for summer research program (2 students):	\$13,950	April 2005
a) MIRT	\$13,250	
b) IRA funds	\$700	
TOTAL	\$13,950	
• San Diego ACS conference (2 students):	\$400	March 2005
a) CSUPERB	\$300	
b) IRA funds	\$100	
TOTAL	\$400	
• Julia Cajia MBRS NIH Research Fellowship	\$7,000	Jan 2005
• Emily Parry Howell Research Fellowship	\$2,500	Jan 2005
• Jennifer Johnston Howell Research Fellowship	\$2,500	Jan 2005
• Travel to Chemistry Gordon Conference (1 student):	\$2,350	Aug 2004

a) Gordon Conference Travel Fund	\$500	
b) Pfizer Travel fund	\$300	
c) CSUPERB Faculty Travel Award	\$750	
d) CSUPERB Student Travel Award	\$800	
TOTAL	\$2,350	
• Irene Medina Pfizer-SDSU Minority Research year Fellowship	\$13,000	Sept 2004
• Ricardo Corral Pfizer-SDSU Minority Research year Fellowship	\$13,000	Sept 2004
• Lisa Liotta Pfizer Masters Research Fellowship	\$2,200	Sept 2004
• Irene Medina McNair Research Fellowship	\$2,800	June 2004
• Chris Carroll McNair Research Fellowship	\$2,800	June 2004
• Irene Medina Pfizer Minority Summer Research Fellowship	\$5,000	May 2004
• Jennifer Johnston Merck Summer Research Fellowship (SURF)	\$5000	May 2004
• Chris Carroll Pfizer Summer Research Fellowship (SURF)	\$5,000	May 2004
• Travel to Anaheim for ACS conference (2 students):	\$1,532	March 2004
a) CSUPERB	\$1332	
b) IRA funds	\$200	
TOTAL	\$1,532	
• Travel to Australia for conference and course (5 students):	\$9,344	March 2004
a) MIRT	\$5,544	
b) IRA funds	\$800	
c) International Office (Students)	\$1,000	
d) International Faculty grant	\$2,000	
TOTAL	\$9,344	
• Kristina Cook Howell Research Fellowship	\$2,500	Jan 2004
• Chris Carroll Howell Research Fellowship	\$2,500	Jan 2004
• Jennifer Robinson ARCS graduate research fellowship	\$7,500	Sept 2003
• Travel to New York for ACS conference (3 students):	\$3,500	Sept 2003
a) CSUPERB	\$2,500	
b) IRA funds	\$600	
c) Pfizer ACS	\$400	
TOTAL	\$3,500	
• Irene Medina Pfizer-SDSU Minority Research year Fellowship	\$13,000	Sept 2003
• Ricardo Corral Pfizer-SDSU Minority Research year Fellowship	\$13,000	Sept 2003
• Megan Bolla Mirt Summer Research Program	\$5000	May 2003
• Enrique Azevedo Mirt Summer Research Program	\$5000	May 2003
• Chris Carroll McNair Summer Research Fellowship	\$2,800	May 2003
• Irene Medina Pfizer Minority Summer Research Fellowship	\$5,000	May 2003
• Travel to Australia for conference and course (3 students):	\$11,719	April 2003
a) MIRT	\$5,544	
b) CSUPERB	\$1175	
c) Department of Chemistry	\$500	
d) IRA funds	\$1,000	
e) International Office (Students)	\$500	
f) International Faculty grant	\$3,000	
TOTAL	\$11,719	
• Travel to New Orleans for ACS conference (2 students):	\$2,800	March 2003
a) CSUPERB	\$1,600	
b) IRA funds	\$600	
c) Pfizer Travel funds	\$600	
TOTAL	\$2,800	
• Jennifer Robinson ARCS graduate research fellowship	\$7,500	Sept 2002
• Enrique Azevedo Pfizer-SDSU Minority Research year Fellowship	\$13,000	Sept 2002
• Megan Bolla Boehringer-Ingelheim Research Fellowship	\$6,000	Sept 2002
• Jason Smith Boehringer-Ingelheim Research Fellowship	\$6,000	Sept 2002

• Irene Medina <i>Bridges Research Program</i>	\$1500	Sept 2002
• Megan Bolla <i>California Pre-Doctoral Fellowship</i>	\$3000	July 2002
• Rachel Taylor <i>California Pre-Doctoral Fellowship</i>	\$3000	July 2002
• Megan Bolla <i>Pfizer SURF Summer Research Fellowship</i>	\$5,000	May 2002
• Megan Bolla <i>McNair Summer Research Fellowship</i>	\$2,800	May 2002
• Enrique Azevedo <i>Pfizer Minority Summer Research Fellowship</i>	\$5,000	May 2002
• Travel to Australia <i>for conference and course (5 students):</i>	\$17,750	April 2002
a) MIRT	\$3,900	
b) MARC	\$2,600	
c) CSUPERB	\$3,500	
d) Department of Chemistry	\$1,000	
e) IRA funds	\$3,000	
f) International Office	\$750	
g) International Faculty grant	\$3,000	
TOTAL	\$17,750	
• Enrique Azevedo <i>Pfizer-SDSU Minority Research 6month</i>	\$6,500	Jan 2002
• Johnny Galvan <i>Pfizer Minority Summer Research Fellowship</i>	\$5,000	May 2001
• Jose Guillen <i>MARC Research Fellowship program</i>	\$11,500	May 2001
• Johnny Galvan <i>MARC Research Fellowship program</i>	\$11,500	May 2001

McAlpine Invited Lectures at Universities and Companies

When multiple authors are listed, * denotes the PI

61)	Macrocyclic peptides: the perfect tools to explore protein function S. R. McAlpine <i>Monash Institute of Pharmaceutical Sciences (MIPS)</i>	2013 May
60)	Macrocyclic molecules: diverse structures that range from heat shock protein inhibitors to ribosomal protein inhibitors S. R. McAlpine <i>Walter and Eliza Hall Institute of Medical Research (WEHI)</i>	2013 May
59)	Modulating Hsp90 using new tools: macrocycles that control Hsp90's c-terminus S. R. McAlpine <i>St Judes Cancer Center, Tennessee</i>	2013 April
58)	Macrocyclic compounds: the perfect tools to explore protein function S. R. McAlpine <i>Vanderbilt University (Chemistry and Pharmacology)</i>	2013 April
57)	Macrocyclic peptides: the perfect tools to explore protein function S. R. McAlpine <i>CSIRO (Melbourne)</i>	2013 February
56)	Hsp90 inhibitors that modulate the immunophilins S. R. McAlpine <i>University of Western Australia (biology department)</i>	2012 July
55)	Macrocyclic peptides: confirmation that dictates biological activity S. R. McAlpine <i>University of Western Australia (chemistry department)</i>	2012 July
54)	Macrocyclic peptides: the perfect tools to explore protein function S. R. McAlpine <i>University of Auckland NZ</i>	2012 July
53)	Macrocyclic peptides: the perfect tools to explore protein function S. R. McAlpine	2012 May

- 52) **Macrocyclic peptides: the perfect tools to explore protein function**
S. R. McAlpine
Howard Florey Institute 2012
May
- 51) **Macrocyclic peptides: the perfect tools to explore protein function**
S. R. McAlpine
University of Wollongong 2012
May
- 50) **Macrocyclic peptides: the perfect tools to explore protein function**
S. R. McAlpine
University of Melbourne 2012
April
- 49) **Macrocyclic peptides: the perfect tools to explore protein function**
S. R. McAlpine
University of Adelaide 2011
November
- 48) **Macrocyclic peptides: the perfect tools to explore protein function**
S. R. McAlpine
Monash University 2011
October
- 47) **Macrocycles as tools in understanding biological mechanisms**
S. R. McAlpine
Australian National University 2011
August
- 46) **Macrocycles as tools in understanding biological mechanisms**
S. R. McAlpine
Institute for Molecular Bioscience, University of Queensland 2011
June
- 45) **Macrocycles as tools in understanding biological mechanisms**
S. R. McAlpine
Eskitis Institute for Cell and Molecular Therapeutics, Griffith University 2011
June
- 44) **Macrocycles as antitumor agents: SAR and Mechanistic Studies**
S. R. McAlpine
National Taiwan University, Taipei 2011
February
- 43) **Macrocycles as antitumor agents: SAR and Mechanistic Studies**
S. R. McAlpine
National Sun Yat-Sen University, Kaohsiung 2011
February
- 42) **Macrocycles as antitumor agents: SAR and Mechanistic Studies**
S. R. McAlpine
Tam Kang University, Taipei 2011
February
- 41) **Macrocycles as antitumor agents: SAR and Mechanistic Studies**
S. R. McAlpine
University of New South Wales, Sydney 2010
May
- 40) **Conformational based design of macrocycles as antitumor agents**
S. R. McAlpine
Bristol Meyers Squibb, CT 2010
April
- 39) **Conformational based design of macrocycles as antitumor agents**
S. R. McAlpine
University of Sydney, College of Pharmacy 2010
March
- 38) **Macrocycles as Antitumor Agents: SAR and Mechanistic Studies**
S. R. McAlpine
Pharmaxis Biotechnology Company 2010
February
- 37) **Macrocycles as Antitumor Agents: SAR and Mechanistic Studies**
S. R. McAlpine 2010
February

- 36) **Conformational based design of macrocycles as antitumor agents** 2009
S. R. McAlpine
San Diego State University, Dept of Biology September
- 35) **Conformational based design of macrocycles as antitumor agents** 2007
S. R. McAlpine
Moffit Cancer Research Center, Dept of Medicinal Chemistry November
- 34) **Conformational based design of macrocycles as antitumor agents** 2007
S. R. McAlpine
San Diego State University, Dept of Computational Chemistry September
- 33) **Working on the chemistry and biology interface** 2007
S. R. McAlpine
University of California, Los Angeles, Department of Chemistry August
- 32) **Conformational based design of macrocycles as antitumor agents** 2007
S. R. McAlpine
University of Minnesota July
- 31) **Macrocycles as Antitumor Agents: SAR and Mechanistic Studies** 2007
S. R. McAlpine
Purdue University May
- 30) **Synthesis of macrocycles that are potential antibiotics and antitumor agents** 2007
S. R. McAlpine
The University of Kansas February
- 29) **Synthesis of macrocycles that are potential antibiotics and antitumor agents** 2007
S. R. McAlpine
Scripps Institute of Oceanography January
- 28) **Synthesis of macrocycles that are potential antibiotics and antitumor agents** 2006
S. R. McAlpine
University of Pennsylvania February
- 27) **Synthesis of macrocycles that are potential antibiotics and antitumor agents** 2006
S. R. McAlpine
Virginia Commonwealth University February
- 26) **Synthesis of macrocycles that are potential antibiotics and antitumor agents** 2006
S. R. McAlpine
Pennsylvania State University February
- 25) **Synthesis of macrocycles that are potential antibiotics and antitumor agents** 2005
S. R. McAlpine
University of Zurich, Switzerland July
- 24) **Synthesis of macrocycles that are potential antibiotics and antitumor agents** 2005
S. R. McAlpine
Acadia Pharmaceuticals, Sweden, July
- 23) **Synthesis of macrocycles that are potential antibiotics and antitumor agents** 2005
S. R. McAlpine
Abbott Laboratories, April
- 22) **Synthesis of macrocycles that are potential antibiotics and antitumor agents** 2005
S. R. McAlpine
University of Kansas April
- 21) **Synthesis of potential new antibiotics & their peptidomimetics** 2005
S. R. McAlpine
April

- 20) **Synthesis of potential new antibiotics & their peptidomimetics** S. R. McAlpine
University of South Hampton, United Kingdom 2005
April
- 19) **Synthesis of biologically interesting macrocycles** S. R. McAlpine
University of California, Irvine 2005
March
- 18) **Synthesis of biologically interesting macrocycles** S. R. McAlpine
University of California, San Diego 2005
February
- 17) **Synthesis of biologically interesting macrocycles** S. R. McAlpine
University of Arkansas 2005
February
- 16) **Synthesis of potential new antibiotics & their peptidomimetics** S. R. McAlpine
University of California, Santa Barbara 2004
October
- 15) **Synthesis of potential new antibiotics & their peptidomimetics** S. R. McAlpine
University of Iowa 2004
September
- 14) **Synthesis of potential new antibiotics & their peptidomimetics** S. R. McAlpine
University of Nebraska 2004
September
- 13) **Synthesis of potential new antibiotics & their peptidomimetics** S. R. McAlpine
Iowa State University 2004
September
- 12) **Synthesis of potential new antibiotics & their peptidomimetics** S. R. McAlpine
University of Delaware, Department of Chemistry 2004
April
- 11) **Synthesis of potential new antibiotics & their peptidomimetics** S. R. McAlpine
University of Connecticut, Department of Chemistry 2004
April
- 10) **Synthesis of potential new antibiotics & their peptidomimetics** S. R. McAlpine
University of California, Santa Cruz, Department of Chemistry 2004
April
- 9) **Synthesis of antibiotics: Synergimycin derivatives and Holliday Junction Binders** S. R. McAlpine
University of Melbourne, Melbourne Australia, RACI – PUG conference 2003
April
- 8) **Synthesis of Antibiotics: Synergimycin Derivatives and Holliday Junction Inhibitors** S. R. McAlpine
Cal Poly Pomona Chemistry Department, Pomona, CA 2003
November
- 7) **The Combinatorial Synthesis of Peptides as Biological Leads and their Corresponding Peptidomimetics** S. R. McAlpine
Molecular Biology Student Seminar Series, SDSU 2002
September
- 6) **The Combinatorial Synthesis of Peptides as Biological Leads and their Corresponding Peptidomimetics** S. R. McAlpine
University of New South Wales, Sydney Australia 2002
April
- 5) **The Combinatorial Synthesis of Peptides as Biological Leads** 2002

- and their Corresponding Peptidomimetics** S. R. McAlpine *April*
University of Melbourne, Melbourne, Australia
- 4) **The Combinatorial Synthesis of Peptides as Biological Leads and their Corresponding Peptidomimetics** S. R. McAlpine **2002**
R. W. Johnson Pharmaceutical Research Institute *March*
- 3) **The Recent Progress in the Synthesis of Synergimycin Libraries** **2001**
 S. R. McAlpine *October*
California State University, Long Beach, Department of Chemistry
- 2) **Recent Progress on Synergimycin Libraries** **2001**
 S. R. McAlpine *October*
Molecular Biology Seminar Series, SDSU
- 1) **Bead/Linker Properties & Progress of Virginiamycin Libraries** **2001**
 S. R. McAlpine *January*
Aurora Biosciences Incorp.

McAlpine Invited Lectures at Conferences

*When multiple authors are listed, * denotes the PI*

- 28) **Strategies for designing heat shock protein inhibitors: new inhibitors that target Hsp90, Hsp70, and Hsp27** **2017**
 S. R. McAlpine *May*
Molecular Chaperones in Cancer, Invited speaker- CNIO-La Caixa Frontiers Meetings
- 27) **Developing an ACS international chapter in the presence of a strong local chemical society** **2017**
 S. R. McAlpine *April*
ACS San Francisco National Meeting Invited speaker- Teaching, Researching & Community Building in the Global Chemical Enterprise
- 26) **Denovo design of peptide based hsp90 inhibitors: modulating the C-terminus and avoiding a cytoprotective response** **2015**
 S. R. McAlpine *Dec*
Pacific Chem, Invited speaker- Advances in peptide and protein chemistry
- 25) **Anti-cancer natural product Marthiapeptide A: Synthesis and mechanism** **2015**
 S. R. McAlpine *Dec*
Pacific Chem, Invited speaker- New platforms in Natural Product Research
- 24) **N- versus C-terminal Hsp90 inhibitors: Their distinct phenotypes** **2015**
 S. R. McAlpine *Dec*
Pacific Chem, Keynote speaker, symposium organizer- Heat shock proteins: the next target in the disease frontier
- 23) **Macrocyces that modulate the C-terminus of hsp90: a new mechanism for Inhibiting protein folding** **2015**
 S. R. McAlpine *June*
Stress Proteins in Growth and Development: Gordon Research Conference, Italy, short-talk
- 22) **The synthesis of Marthiapeptide A** **2015**
 S. R. McAlpine *April*
Synthcon3 speaker
- 21) **Macrocyces that modulate the C-terminus of hsp90: a new mechanism for Inhibiting protein folding** **2015**
 S. R. McAlpine *April*
Cambridge Drug Discovery Chemistry Conference: Invited speaker- Advances in peptide and protein chemistry
- 20) **A two part discussion on large macrocyces that target cancer** **2014**
 S. R. McAlpine *December*
RACI, Congress Meeting Australia – invited speaker

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|-----|---|-------------------|
| 19) | Not all Hsp90 inhibitors are the same
S. R. McAlpine
<i>Hsp90 Conference, Munich Germany – Keynote speaker</i> | 2014
October |
| 18) | Effectively delivering a drug using star polymers: Improving solubility of a unique hsp90 inhibitor
S. R. McAlpine
<i>Nanomedicine, Sydney Australia – invited speaker</i> | 2013
July |
| 17) | Macrocyclic peptides: the perfect tools to explore protein function
S. R. McAlpine
<i>H3-D Symposium, Cape Town, South Africa – plenary speaker</i> | 2012
October |
| 16) | Hsp90 inhibitors that modulate the immunophilins
S. R. McAlpine
<i>Swedish society for biochemistry, biophysics, and molecular biology, Sweden – Keynote speaker</i> | 2012
September |
| 15) | Macrocyclic peptides: the perfect tools to explore protein function
S. R. McAlpine
<i>RACI Biomolecular Chemistry Conference: Biomolecular at the Beach, Torquay, Victoria – Invited speaker</i> | 2011
December |
| 14) | Macrocyclic peptides: the perfect tools to explore protein function
S. R. McAlpine
<i>The 9th Australian Peptide Conference, Hamilton Island – keynote speaker</i> | 2011
October |
| 13) | Synthesis of Urukthapelstatin A and derivatives
S. R. McAlpine
<i>Heterocycles Gordon Conference</i> | 2010
June |
| 12) | Macrocycles as Antitumor Agents: SAR and Mechanistic Studies
S. R. McAlpine
<i>AIMECS International Medicinal Chemistry Conference</i> | 2009
August |
| 11) | Macrocycles as Antitumor Agents: SAR and Mechanistic Studies
S. R. McAlpine
<i>Western Regional American Chemical Society Meeting</i> | 2007
October |
| 10) | Macrocyclic Peptides as Antitumor Agents: SAR and Mechanistic Studies
S. R. McAlpine
<i>Roche Colorado Corporation Peptide Symposium</i> | 2007
September |
| 9) | Synthesis of potential new antibiotics & their peptidomimetics
S. R. McAlpine
<i>IBC's Annual Target-Based Compound Libraries</i> | 2004
December |
| 8) | Synthesis of potential new antibiotics & their peptidomimetics
S. R. McAlpine
<i>Organic Reactions and Processes Gordon Conference</i> | 2004
July |
| 7) | Novel antibiotics: Macrocyclic peptides designed to trap Holliday Junctions
S. R. McAlpine
<i>Bioorganic Chemistry Gordon Conference</i> | 2004
June |
| 6) | Recruiting Faculty: How is it done, Who gets the Job and Why?
S. R. McAlpine
<i>Presidential Event –invited speaker to American Chemical Society</i> | 2004
March |
| 5) | Antibiotic Synthesis: Synergimycins & Holliday Junctions inhibitors
S. R. McAlpine
<i>Combinatorial Chemistry Gordon Conference</i> | 2003
July |
| 4) | The Investigation of Bead Properties and Recent Progress on Virginiamycin Libraries
S. R. McAlpine
<i>Combinatorial Chemistry Gordon Conference</i> | 2001
July |

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| 3) | Recent Progress on Synergimycin-Like Libraries
S. R. McAlpine
<i>4th Annual San Diego Combinatorial Chemistry Symposium (UCSD)</i> | 2001
<i>July</i> |
| 2) | Visualizing Functional Group Distribution in Solid-Support Resins
S. R. McAlpine
<i>TIDES 2001 (International Conference)</i> | 2001
<i>March</i> |
| 1) | Synthesis and Investigation of a Cyclodextrin Molecular Sensor
S. R. McAlpine, M. Garcia-Garibay*
<i>UCLA Graduate Student Research Symposium</i> | 1996
<i>June</i> |

McAlpine Lectures at Conferences

*When multiple authors are listed, * denotes the PI (Total = 2)*

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|----|---|----------------------|
| 2) | Comparison of Solid Support Resin Properties
S. R. McAlpine, S. L. Schreiber*
<i>American Chemical Society, National Meeting</i> | 1999
<i>March</i> |
| 1) | Temperature- and Concentration- Dependent Binding of β-Cyclodextrin Derivatives with Hydrophobic Guests
S. R. McAlpine, M. Garcia-Garibay*
<i>American Chemical Society, National Meeting</i> | 1997
<i>April</i> |

Service for SDSU

- | | Dates |
|--|---------------|
| • Member SDSU College Grant Awards and Sabbatical Committee | 05- 07 |
| • Member of SDSU Department Graduate Committee | 03- 11 |
| • Chair of the SDSU Department Scholarship Committee | 03- 04, 06-10 |
| • Letters of Rec Written: 30 letters in 2002 / 15 letters in 2003 / 15 letters in 2004 / 25 letters in 2005 / 26 letters in 2006 / 21 letters in 2007 / 27 letters in 2008 / 22 letters in 2009 / 12 letters in 2010 | 02- 10 |
| • Participated in SDSU Bridges Event, Fund raising event | 2002 |
| • Member of SDSU College Curriculum Committee | 01- 04 |
| • Member of SDSU Pre-professional Health Committee | 00- 10 |
| • Member of SDSU Department Curriculum Committee | 00- 03 |
| • Local Industry Liaison for SDSU Chemistry Department (\$13,000 in Departmental checks, \$130,000 in equipment donation) | 00- 10 |
| • Member of SDSU Chemistry Education Professor Search Committee | 00-01 |