

**PAULINE CHIU**

趙寶貽

**Born:** Hong Kong, December 13, 1964

**Present Position:** Professor in Organic Chemistry

**Academic Experience:**

- 9/1979-8/1984: Grades 9-13, Thornlea Secondary School, Thornhill, Ontario, Canada  
Ontario Secondary School Honours Graduation Diploma
- 9/1984-8/1988: B. Sc. *Honours*, Specialist in Chemistry, University of Toronto  
The late **Prof. Adrian G. Brook**, University Professor, *Emeritus*  
Undergraduate Thesis: "Reactions of Organometallic Reagents with Silenes"
- 9/1988-8/1990: M. Sc. University of Toronto  
Under scholarship support from the National Science & Engineering Research Council of Canada  
The late **Prof. Adrian G. Brook**, University Professor *Emeritus*  
Thesis: "Reactions of Stable Silenes with Grignard Reagents"
- 9/1990-1/1994: PhD, University of Toronto  
Under scholarship support from the National Science & Engineering Research Council of Canada  
**Prof. Mark Lautens**, Astra Zeneca Professor of Organic Synthesis and NSERC/Merck Frosst Industrial Research Chair  
Thesis: "Ring-Opening Reactions of Oxabicyclic Compounds: Unsymmetrical Substrates and Reduction"
- 2/1994-5/1995: Postdoctoral Fellow, Columbia University  
Under scholarship support from the National Science & Engineering Research Council of Canada  
**Prof. Samuel J. Danishefsky**, Professor of Chemistry, Columbia University and Eugene W. Kettering Chair at Memorial Sloan Kettering Institute for Cancer Research, New York
- 12/1995-11/1997: Postdoctoral Fellow, The University of Hong Kong, Prof. K. F. Cheng
- 12/1997-11/2000: Research Fellow, The University of Hong Kong
- 12/2000-08/2001: Research Assistant Professor, The University of Hong Kong
- 09/2001-05/2007: Assistant Professor, The University of Hong Kong
- 06/2007-06/2011: Associate Professor, The University of Hong Kong
- 07/2011-present: [Professor, The University of Hong Kong](#)
- 02/2013-03/2017 Associate Dean (Teaching and Learning), Faculty of Science
- 02/2016-07/2016 Interim Dean, Faculty of Science, The University of Hong Kong
- 11/2016-present: [Associate Head, Department of Chemistry, The University of Hong Kong](#)

## A. RESEARCH

### **I. SELECTED RECOGNITIONS AND AWARDS:**

- July 2003* 2003 Summer Symposium of Synthetic Organic Chemistry Lectureship Awardee  
*Award given to fifteen Japanese chemists and two foreign young chemists annually by the Society of Synthetic Organic Chemistry, Japan*  
*Co-awardee: Prof. James Leighton, Columbia University*  
*“A Synthetic Journey Inspired by Natural Products”*
- Oct 2006* The 1<sup>st</sup> International Conference on Cutting-edge Organic Chemistry in Asia, Asian CORE Program Lectureship Award, for “[4+3] Cycloaddition Reactions Using Epoxy Enol Silanes”  
*Sponsored by Korean Science and Engineering Foundation Center for Molecular Design and Synthesis, and Center for Bioactive Molecular Hybrids (KOSEF-CMDS/CBMH:*
- Sept 2007* The 2<sup>nd</sup> International Conference on Cutting-edge Organic Chemistry in Asia, Asian CORE Program Lectureship Award, for “Synthetic Studies On Secodolastanes and Dolastanes: Indicol and Dolatriol”  
*Sponsored by the Natl Science Foundation of China (NSFC): Lectureship tour in China*
- Sept 2007* The 2<sup>nd</sup> International Conference on Cutting-edge Organic Chemistry in Asia, Asian CORE Program Lectureship Award, for “Synthetic Studies On Secodolastanes and Dolastanes: Indicol and Dolatriol”  
*Sponsored by Japan Society for Promotion of Sciences (JSPS): Lectureship tour in Japan*
- Nov 2007* The 2007 University of Hong Kong Research Output Prize, for the Publication “Total Synthesis of Pseudolaric Acid A”  
*Awarded by the University Research Committee, The University of Hong Kong*
- Dec 2012* The 7<sup>th</sup> International Conference on Cutting-edge Organic Chemistry in Asia, Asian CORE Program Lectureship Award, for “Reductive Claisen Rearrangements Catalyzed by Copper Hydrides”  
*Sponsored by the Institut Kimia Malaysia, Malaysia: Lectureship tour in Malaysia*
- Dec 2012* The 7<sup>th</sup> International Conference on Cutting-edge Organic Chemistry in Asia, Asian CORE Program Lectureship Award, for “Reductive Claisen Rearrangements Catalyzed by Copper Hydrides”  
*Sponsored by National Science Council of Taiwan, ROC: Lectureship tour in Taiwan*
- Dec 2014* The 9<sup>th</sup> International Conference on Cutting-edge Organic Chemistry in Asia, Asian CORE Program Lectureship Award, for “Synthetic Studies Toward Pseudolaric Acid B”  
*Sponsored by Japan Society for Promotion of Sciences (JSPS): Lectureship tour in Japan*
- Nov 2015* The 10<sup>th</sup> International Conference on Cutting-edge Organic Chemistry in Asia, Asian CORE Program Lectureship Award, for “Stereoconvergent Syn Enolborate Aldol Reactions.” *Selected by Asian Core Program Coordinator for P. R. China: Lectureship tour in China*

### **Postdoctoral Scholarships and Awards**

*1994-1995* National Science & Engineering Research Council of Canada Postdoctoral Fellowship

### **Postgraduate Scholarships and Awards**

- 1988-1989* The University of Toronto Open Scholarship
- 1989-1990* The George F. Wright Organic Chemistry Seminar Award, University of Toronto
- 1989-1992* National Science & Engineering Research Council of Canada Postgraduate Scholarship
- 1990-1991* The University of Toronto Special Award
- 1992-1993* The Government of the Province of Ontario Graduate Scholarship
- 1993-1994* The Bio-Mega Pharmaceutical Corporation Research Award, University of Toronto

## II. PUBLICATIONS:

### A. Peer-reviewed publications

#### Publications Prior to University of Hong Kong

##### 1991

1. *Reactions of Stable Silenes with Grignard Reagents.* Brook, A. G.\*; Chiu, P.; McClenaghan, J.; Lough, A. J. *Organometallics*, **1991**, *10*, 3292-3301.
2. *The Reductive Ring Opening of Oxabicyclic Compounds.* Lautens, M.\*; Chiu, P. *Tetrahedron Lett.* **1991**, *32*, 4827-4830.

##### 1992

3. *An Efficient Synthesis of 1,3-Cyclohexadienes from Oxabicyclo[2.2.1]heptenes Via Tandem Ring-Opening-Peterson Elimination Reactions.* Lautens, M.\*; Ma, S.; Belter, R. K.; Chiu, P.; Leschziner, A. J. *J. Org. Chem.* **1992**, *57*, 4065-4066.

##### 1993

4. *Regioselective Nucleophilic Ring Opening of Oxabicyclic Compounds.* Lautens, M.\*; Chiu, P. *Tetrahedron Lett.* **1993**, *34*, 773-776.
5. *Reductive Ring Opening of Oxabicyclic Compounds with DIBAL-H. Application to the Synthesis of the C<sub>17</sub>-C<sub>23</sub> Subunit of Ionomycin.* Lautens, M.\*; Chiu, P.; Colucci, J. T. *Angew. Chem. Int. Ed. Engl.* **1993**, *32*, 281-3; *Angew. Chem.* **1993**, *105*, 267-269.
6. *Studies in the Asymmetric Ring Opening of an Oxabicyclic Compound. Catalytic Asymmetric Induction using (-)-Sparteine.* Lautens, M.\*; Gajda, C.; Chiu, P. *J. Chem. Soc., Chem. Commun.* **1993**, 1193-1194.

##### 1994

7. *Transition Metal-catalysed Reductive Ring Opening of Oxabicyclic Compounds.* Lautens, M.\*; Chiu, P. (Symposium Abstract) In "Organometallic Reagents in Organic Synthesis" Eds. Bateson, J. H.; Mitchell, M. B. Academic Press, London, **1994**, pp. 268-269.

##### 1995

8. *Nickel-Catalyzed Hydroalumination of Oxabicyclic Alkenes. Ligand Effects on Regio- and Enantioselectivity.* Lautens, M.\*; Chiu, P.; Ma, S.; Rovis, T. *J. Am. Chem. Soc.* **1995**, *117*, 532-533.
9. *New Strategies for the Stereoselective Synthesis of Natural and Unnatural Products Via Organometallic Reagents and Catalysts.* Lautens, M.\*; Ren, Y.; Delanghe, P.; Chiu, P.; Ma, S.; Colucci, J. *Can. J. Chem.* **1995**, *73*, 1251-1257.

##### 1997

10. *Using Ring Opening Reactions in the Synthesis of Natural Products.* Chiu, P.; Lautens M.\* *Top. Curr. Chem.* **1997**, *190*, 1-85. (IF2000= 5.960)
11. *Synthesis of Cyclohexenols and Cycloheptenols via the Regioselective Reductive Ring Opening of Oxabicyclic Compounds.* Lautens, M.\*; Ma, S.; Chiu, P. *J. Am. Chem. Soc.* **1997**, *119*, 6478-6487.

## 1998

12. *Toward a Potential Total Synthesis of Gelsemine: A Regioselective Hydroboration Directed by a Remote Olefin.* Ng, F.; Chiu, P.; Danishefsky, S. J. \* *Tetrahedron Lett.* **1998**, *39*, 767-770.

## Publications at the University of Hong Kong

13. *A Convenient Preparation of (E)-3-Penten-2-one.* Chiu, P.\*; Wong, S. T. *Synth. Commun.* **1998**, *28*, 4513-4516. (IF2001= 0.912)
14. *A Conjugate Reduction-Intramolecular Aldol Strategy Toward the Synthesis of Pseudolaric Acid A.* Chiu, P. \*; Chen, B.; Cheng, K. F. *Tetrahedron Lett.*, **1998**, *39*, 9229-9232.

## 2000

15. *Tandem Reduction-Aldol Reactions Induced by Stryker's Reagent* (Symposium abstract) Chiu, P. \*; Szeto, C. P.; Geng, Z.; Cheng, K. F. *Chem. J. Chinese U.* **2000**, *21*, 428.

## 2001

16. *A Rhodium Carbene Cyclization-Cycloaddition Cascade Strategy toward the Pseudolaric Acids.* Chiu, P.\*; Chen, B.; Cheng, K. F. *Org. Lett.* **2001**, *3*, 1721-1724. (IF2003= 4.092)
17. *Application of the Tandem Stryker Reduction-Aldol Cyclization Strategy to the Asymmetric Synthesis of Lucinone.* Chiu, P.\*; Szeto, C. P.; Geng, Z.; Cheng, K. F. *Tetrahedron Lett.* **2001**, *42*, 4091-4093. (IF2003= 2.326)
18. *Tandem Conjugate Reduction-Aldol Cyclizations Using Stryker's Reagent.* Chiu, P.\* Szeto, C. P.; Geng, Z.; Cheng, K. F. *Org. Lett.* **2001**, *3*, 1901-1903. (IF2003= 4.092)

## 2002

19. *Explorations in Organic Chemistry Leading to the Total Synthesis of (±)-Gelsemine.* Ng, F. W.; Lin, H.; Chiu, P.; Danishefsky, S. J.\* *J. Am. Chem. Soc.* **2002**, *124*, 9812-9824;  
Additions and Corrections, *J. Am. Chem. Soc.* **2003**, *125*, 13303.

## 2003

20. *An Expedient Preparation of Stryker's Reagent.* Chiu, P. \*; Li, Z.; Fung, K. C. M. *Tetrahedron Lett.* **2003**, *44*, 455-457. (IF2003= 2.326)
21. *A Tandem Metal Carbene Cyclization-Cycloaddition Approach to the Pseudolaric Acids.* Chen, B.; Ko, R. Y. Y.; Yuen, M. S. M.; Cheng, K. F.; Chiu, P. \* *J. Org. Chem.* **2003**, *68*, 4195-4205. (IF2003= 3.297)

## 2004

22. *Desymmetrizations of Meso Oxabicyclic Compounds by Asymmetric C-H Insertion.* Chiu, P.\*; Zhang, X.; Ko, R. Y. Y. *Tetrahedron Lett.* **2004**, *45*, 1531-1534. (IF2003= 2.326)
23. *An Expedient Nazarov Cyclization Strategy to the Hydroazulene Core of Guanacastepene A.* Chiu, P. \*; Li, S. *Org. Lett.* **2004**, *6*, 613-616. (IF2003= 4.092)
24. *A Synthesis of the Tetracyclic Carboskeleton of Isaindigotidione.* Poon, C. Y.; Chiu, P.\* *Tetrahedron Lett.* **2004**, *45*, 2985-2988. (IF2003= 2.326)

25. *New Triterpene Peroxides from Pseudolarix kaempferi*. Zhou, T.; Zhang, H.; Zhu, N.; Chiu, P.\* *Tetrahedron* **2004**, 60, 4931-4936. (IF2003= 2.641)
26. *Reductive and Catalytic Reductive Aldol Cyclizations of Alkynediones Induced by Stryker's Reagent*. Chiu, P. \*; Leung, S. K. *Chem. Commun.* **2004**, 2308-2309. (IF2003= 4.031)
27. *Polystyrene-supported Triphenylarsine Reagents and Their Use in Suzuki Cross-coupling Reactions*. Lau, K. C. Y.; He, H. S.; Chiu, P.\*; Toy, P. H.\* *J. Comb. Chem.* **2004**, 6, 955-960. (IF2003= 4.200)
28. *Organosilanes in Copper-mediated Conjugate Reductions and Reductive Aldol Reactions*, Chiu, P. *Synthesis* **2004**, 2210-2215. (IF2003= 2.074)

## 2005

29. *Reductive Intramolecular Henry Reactions Induced by Stryker's Reagent*. Chiu, P.\*; Chung, W. K. *Synlett* **2005**, 55-58. (IF2004= 2.738)
30. *Dihydrochalcones from the Leaves of PIERIS JAPONICA*. Yao, G.-M.; Ding, Y.; Quo, J.-P.; Wang, H.-B.; Wang, Y.-B.; Ding, B.-Y.; Chiu, P.; Qin, G.-W.\* *J. Nat. Prod.* **2005**, 68, 392-396. (IF2004= 2.202)
31. *Metal-catalyzed cyclopropanations on the 8-oxabicyclo[3.2.1]octene template*. Leung, S. K.; Chiu, P.\* *Tetrahedron Lett.* **2005**, 46, 2709. (IF2004= 2.484)
32. *Application of the Carbene Cyclization Cycloaddition Cascade in Total Synthesis*. Chiu, P. *Pure and Appl. Chem.* **2005**, 77, 1183-1189. (IF2004= 1.449)
33. *Pseudolaric acid B, a novel class of microtubule-destabilizing agent circumvents a multi-drug resistant phenotype and exhibits antitumor activity in vivo*. Wong, V. K. M.; Chiu, P.; Chung, S. S. M.; Chow, L. M. C.; Zhao, Y. Z.; Yang, B. B.; Ko, B. C. B.\* *Clin. Cancer Res.* **2005**, 11 (16), 6002-6011. (IF2004= 5.623)
34. *Time-Resolved Resonance Raman Observation of the 2-Fluorenylnitrenium Ion Reaction With Guanosine to Form a C8-Intermediate*. Chan, P. Y.; Kwok, W. M.; Lam, S. K.; Chiu, P.; Phillips, D. L.\* *J. Am. Chem. Soc.* **2005**, 8246-8247. (IF2004= 6.903)
35. *Copper-catalyzed hydrostannation of activated alkynes*. Leung, L. T.; Leung, S. K.; Chiu, P.\* *Org. Lett.* **2005**, 7, 5249-5252. (IF2004= 4.195)

## 2006

36. *Hydrostannation of activated alkynes mediated by Stryker's reagent*. Chiu, P.\*; Leung, L. T. *Pure and Appl. Chem.* **2006**, 78, 281-286. (IF2006= 1.920)
37. *Synthesis, Structures, and Olefin Polymerization Characteristics of Group 4 Catalysts [Zr{(OAr)<sub>2</sub>py}<sub>2</sub>Cl<sub>2</sub>(D)] (D = O-Donors, Cl[HPR<sub>3</sub>]) Supported by Tridentate Pyridine-2,6-bis(aryloxy) Ligands*. Chan, M. C. W.\*; Tam, K. H.; Zhu, N.; Chiu, P.; Matsui, S. *Organometallics* **2006**, 25, 785-792. (IF2006= 3.632)

38. *Allenes as dipolarophiles in the intramolecular carbene cyclization cycloaddition cascade reaction.* Zhang, X.; Ko, R. Y. Y.; Li, S.; Miao, R.; Chiu, P.\* *Synlett* **2006** (Invited submission for Special Issue: Organic Chemistry in China ), 1197-1200. (IF2006= 2.838).

39. *Total synthesis of pseudolaric acid A.* Geng, Z.; Chen, B.; Chiu, P.\* *Angew. Chem. Int. Ed.* **2006**, *45*, 6197-6201. (IF2006= 10.232) **Highlighted: by Synfacts 2007, 2, 0120.**

#### 2007

40. *The application of non-cross-linked polystyrene-supported triphenylarsine in Stille coupling reactions.* Lau, K. C. Y.; Chiu, P.\* *Tetrahedron Lett.* **2007**, *48*, 1813-1816. (IF2007= 2.615)

41. *Herbal diterpenoids induce growth arrest and apoptosis in colon cancer cells with increased expression of the nonsteroidal anti-inflammatory drug-activated gene.* Ko, J. K. S.\*; Leung, W. C.; Ho, W. K.; Chiu, P. *Eur. J. Pharmacol.* **2007**, *559*, 1-13. (IF2007= 2.376)

42. *Regioselective hydrostannation of activated alkynes catalyzed by in situ generated copper hydride.* Miao, R.; Li, S.; Chiu, P.\* *Tetrahedron* **2007**, *63*, 6737-6740. (IF2007= 2.869)

43. *Total Synthesis of (-)-Indicol.* Lam, S. K.; Chiu, P.\* *Chem.-Eur. J.* **2007**, *13*, 9589-9599. (IF2007= 5.330)

#### 2008

44. *Acid-promoted sequential cationic cyclizations for the synthesis of (±)-taiwaniaquinol B.* Li, S.; Chiu, P.\* *Tetrahedron Lett.* **2008**, *49*, 1741-1744. (IF2007= 2.615)

45. *The Application of P-CuH in Organic Synthesis.* H-Cu-P 络合物在有机合成中的应用. Li, Z.\*; Liu, G.; Chiu, P. *Prog. Chem.* **2008**, *20*, 1900-1922. (IF2007 = 0.528)

#### 2009

46. *Inter- and intramolecular [4+3] cycloadditions using epoxy enol silanes as functionalized oxyallyl cation precursors.* Chung, W. K.; Lam, S. K.; Lo, B.; Liu, L. L.; Wong, W.-T., Chiu, P.\* *J. Am. Chem. Soc.* **2009**, *131*, 4556-4557. (IF2008= 8.091)

**Highlighted in: Organic Chemistry Highlights:**

<http://www.organic-chemistry.org/Highlights/2009/28December.shtm>

47. *Sinoracutine, a novel skeletal alkaloid with cell-protective effects from *Sinomenium acutum*.* Bao, G.-H.; Wang, X.-L.; Tang, X.-C.; Chiu, P.\*; Qin, G.-W.\* *Tetrahedron Lett.* **2009**, *50*, 4375-4377. (IF2008= 2.538)

48. *Ene Reactions.* Lam, S. K.; Chiu, P. In: *Science of Synthesis*; de Meijere, A. Ed.; Thieme: Stuttgart, **2009**; Vol. 47, p. 737-754. (*Reference Book Chapter*)

49. *The Rhodium-Catalyzed Carbene Cyclization Cycloaddition Cascade Reaction of Vinylsulfonates.* Shi, B.; Merten, S.; Wong, D. K. Y.; Chu, J. C. K.; Liu, L. L.; Lam, S. K.; Jäger, A.; Wong, W.-T.; Chiu, P.\*; Metz, P.\* *Adv. Synth. Catal.* **2009**, *351*, 3128-3132. (IF2008= 5.619)

#### 2010

50. *Alisol B, a novel inhibitor of the SERCA pump, induces autophagy, ER-stress and apoptosis.* Law, B. Y. K.; Wang, M.; Ma, D.-L.; Al-Mousa, F.; Michelangeli, F.; Cheng, S.-H.; Ng, M.

H. L.; To, K.-F.; Mok, A. Y. F.; Ko, R. Y. Y.; Lam, S. K.; Chen, F.; Che, C.-M.; Chiu, P.\*; Ko, B. C. B.\* *Mol. Cancer Ther.* **2010**, *69*, 718-730. (IF2008= 4.953)

51. *Pseudolaric Acids: Isolation, Bioactivity and Synthetic Studies.* Leung, L. T.; Ko, B. C. B.; Chiu, P.\* *Nat. Prod. Rep.* **2010**, *26*, 1066-1083. **Invited Review** (IF2009= 9.202)

## 2011

52. *Facial Selectivity and Regiospecificity in the (4+3) Cycloaddition of Epoxy Enol Silanes.* Lo, B.; Chiu, P.\* *Org. Lett.* **2011**, *13*, 864-867. (IF2010= 5.250)

53. *An Expedient Asymmetric Synthesis of the Pentacyclic Core of the Cortistatins by an Intramolecular (4+3) Cycloaddition.* Liu, L. L.; Chiu, P.\* *Chem. Commun.* **2011**, 3416-3417. (IF2010= 5.787)

Selected as a **Hot Article** by *Chem Commun.*:

<http://blogs.rsc.org/cc/2011/02/28/intramolecular-cycloaddition-leads-to-the-pentacyclic-core-of-cortistatins/>

54. *Synthesis of fluorinated analogues of the immunosuppressive drug FTY 720.* Ko, R. Y. Y.; Chu, J. C. K.; Chiu, P.\* *Tetrahedron* **2011**, *67*, 2542-2547. (IF2010= 3.011)

55. *A Protecting Group-Free Route to Chiral BINOL Phosphoric Acids.* Li, B.; Chiu, P.\* *Eur. J. Org. Chem.* **2011**, 3932-3937. (IF2010= 3.206)

56. *Conjugate Reductions and Reductive Aldol Cyclizations of  $\alpha,\beta$ -Unsaturated Thioesters Catalyzed by (BDP)CuH.* Li, N.; Ou, J.; Miesch, M.; Chiu, P.\* *Org. Biomol. Chem.* **2011**, *9*, 6143-6147. (IF2010= 3.451)

57. *Non-cross-linked polystyrene-supported triphenylarsonium halides and their use in the arsa-Wittig reaction.* Lau, K. C. Y.; Chiu, P.\* *Tetrahedron*, **2011**, *67*, 8769-8774 (IF2010= 3.011).

58. *Desymmetrization of meso [3.2.1] oxabicyclic systems using metal-catalyzed asymmetric intramolecular C-H insertion.* Zhang, X.; Li, Z.; Chu, J. C. K.; Chiu, P.\* *Tetrahedron Lett.* **2011**, *52*, 6763-6766 (IF2010= 2.618).

## 2012

59. *Reductive aldol cyclizations of unsaturated thioester derivatives of 1,3-cyclopentanedione catalyzed by chiral copper hydrides.* Ou, J.; Wong, W. T.; Chiu, P.\* *Tetrahedron*, **2012**, *68*, 3450-3456. **Invited Contribution** to *Tetrahedron Special Issue* on "New trends in enantioselective catalysis with copper (I)" (IF2010= 3.011).

60. *Desymmetrizing Reductive Aldol Cyclizations of Enethioate Derivatives of 1, 3-Diones Catalyzed by Chiral Copper Hydride.* Ou, J.; Wong, W.-T.; Chiu, P.\* *Org. Biomol. Chem.* **2012**, *10*, 5971-5978. **Invited Contribution** to the 10<sup>th</sup> Anniversary Issue of *Organic and Biomolecular Chemistry*. (IF2011= 3.696)

61. *Enantiomerically-enriched (4+3) Cycloadducts Derived from Optically Active Epoxy Enolsilanes.* Lam, S.; Lo, B.; Wong, W. T.; Chiu, P.\* *Asian J. Org. Chem.* **2012**, *1*, 30-33. Selected as a **VIP** (Very Important Paper, < 5% of accepted manuscripts); featured as a **Cover article**. (IF2014= 3.318)

62. *An Adventure in Synthesis Inspired by the Pseudolaric Acids*. Chiu, P. In: *Strategies and Tactics in Organic Synthesis*, M. Harmata, Ed. *Academic Press*, **2012**; Volume 8, Chapter 3, pp. 55-78.
63. *Asymmetric (4+3) Cycloadditions Of Optically Enriched Epoxy Enolsilanes*. Lo, B.; Lam, S.; Wong, W. T.; Chiu, P.\* *Angew. Chem. Int. Ed.* **2012**, *51*, 12120-12123. (IF2011= 13.455) **Selected as a Hot Paper by Angew. Chem. Int. Ed. Editors for its importance in a rapidly evolving field of high current interest.**

#### 2014

64. *Hexa- $\mu$ -hydrohexakis(triphenylphosphine)hexacopper. First Update*. Chiu, P.\*; Ng, W. H. In: *Electronic Encyclopedia of Reagents for Organic Synthesis (e-EROS)*. *John Wiley & Sons*, **2014**, pp. 1-9.
65. *[4+3] Cycloadditions of Enolsilane Derivatives*. Lam, S. Y. Y.; Chiu, P.\* In: *Methods and Applications of Cycloaddition Reactions in Organic Synthesis (MACROS)*, N. Nishiwaki, Ed. *Wiley Blackwell*, **2014**, Chapter 18, pp. 565-598.
66. *Intermolecular (4+3) Cycloadditions of Aziridinyl Enolsilanes*. Lam, S. K.; Lam, S.; Chiu, P.\* *Chem. Commun.* **2014**, *50* (14), 1738-1741.
67. *Vinyl Epoxides In Organic Synthesis*. He, J.; Ling, J.; Chiu, P.\* *Chem. Rev.* **2014**, *104*, 8037-8128. (IF2015= 37.369)
68. *Virtual screening and optimization of Type II inhibitors of JAK2 from a natural product library*. Ma, D. L.\*; Chan, D. S.-H.; Wei, G.; Zhong, H. J.; Yang, H.; Leung, L. T.; Gullen, E. A.; Chiu, P.\*; Cheng, Y. C.\*; Leung, C. H.\* *Chem. Commun.* **2014**, *50* (14), 13885-13888. (IF2015= 6.567)

#### 2015

69. *Total Synthesis of (-)-Dolastatrienol*. Leung, L. T.; Chiu, P.\* *Chem.-Asian J.* **2015**, *10*, 1042-1049. DOI: [10.1002/asia.201403325](https://doi.org/10.1002/asia.201403325). **Selected as a VIP (Very Important Paper)**. (IF= 4.592)
70. *Cycloaddition Reactions of Carbonyl Ylides Derived From Enones*. Yu, Y.; Cornelissen, L.; Wong, W.T.; Chiu, P.\* *Synlett* **2015**, *26* (11), 1553-1556. DOI: [10.1055/s-0034-1379926](https://doi.org/10.1055/s-0034-1379926). **Invited Contribution to Special Issue** dedicated to Prof. K. C. Vollhardt.
71. *Concerted Ring-Opening and Cycloaddition of Chiral Epoxy Enolsilanes with Dienes*. Krenske, E. H.\*; Lam, S.; Ng, J. P. L.; Lo, B.; Lam, S. K.; Chiu, P.\*; Houk, K. N.\* *Angew. Chem. Int. Ed.* **2015**, *54*, 7422-7425. DOI: [10.1002/anie.201503003](https://doi.org/10.1002/anie.201503003)
72. *Further studies on sultones derived from carbene cyclization cycloaddition cascades*. Groß, T.; Herrmann, T.; Shi, B.; Jäger, A.; Chiu, P.; Metz, P.\* *Tetrahedron* **2015**, *71*, 5925-5931. DOI: [10.1016/j.tet.2015.05.095](https://doi.org/10.1016/j.tet.2015.05.095)
73. *Formal Total Synthesis of (+)-Cortistatin A and J*. Kuang, L.; Liu, L. L.; Chiu, P.\* *Chem.-Eur. J.* **2015**, *21*, 14287-14291. **Selected as a Hot Paper by the Journal. Also highlighted in: Organic Chemistry Highlights: <http://www.organic-chemistry.org/Highlights/2016/29August.shtm>** DOI: [10.1002/chem.201502890](https://doi.org/10.1002/chem.201502890) (IF2015= 5.771)



**2016**

74. *Copper Hydride-Catalyzed Reductive Claisen Rearrangements*. Wong, K. C.; Ng, E.; Wong, W. T.; Chiu, P.\* *Chem.-Eur. J.* **2016**, *22*, 3709-3712. DOI: 10.1002/chem.201504870. [This article is part of a Special Issue: Women in Chemistry](#). (IF2015= 5.771)
75. *Epoxy and aziridinyl enolsilanes in diastereoselective inter- and intramolecular Friedel-Crafts alkylations*. Ling, J.; Lam, S. K.; Lo, B.; Lam, S.; Wong, W. T.; Chen, G.; Sun, J.; Chiu, P.\* *Org. Chem. Front.*, **2016**, *3*, 457-461. [This article is selected to be in the themed collection: Hot articles in Organic Chemistry Frontiers in 2016](#). (IF2015= 4.693)
76. *'Goldilocks effect' of water in Lewis-Brønsted Acid-Base Pd catalysis*. Barron, B. J.; Wong, W. T.; Chiu, P.; Hii, K. K.\* *ACS Catalysis*. **2016**, *6*, 4189-4194. (IF2015= 9.307)
77. *3-Quinuclidinol. First Update*. Y. Chen, Chiu, P.\* In: *Electronic Encyclopedia of Reagents for Organic Synthesis (e-EROS)*. John Wiley & Sons, **2016**.

**2017**

78. *Tetrandrine, an activator of autophagy, induces autophagic cell death via PKC- $\alpha$  inhibition and mTOR-dependent mechanisms*. Wong, V. K. W.; Zeng, W.; Chen J.; Yao, X. J.; Leung, E. L.; Wang Q. Q.; Chiu, P.\*; Ko, B. C. B.\*; Law, B. Y. K.\* *Front. Pharmacol.-Ethnopharmacology* **2017**, *8*: 351. doi: 10.3389/fphar.2017.00351 (IF2016= 4.400)
79. *Dearomative Intramolecular (4+3) Cycloadditions of Arenes with Epoxy and Aziridinyl Enolsilanes*. Ling, J.; Lam, S.; Low, K.H.; Chiu, P.\* *Angew. Chem. Int. Ed.* **2017**, *56*, 8879-8882. DOI: 10.1002/anie.201704155 (IF2016= 11.994)
80. *A Natural Product-like JAK2/STAT3 Inhibitor Induces Apoptosis of Malignant Melanoma Cells*. Wu, K. J.; Huang J. M.; Zhong, H. J.; Dong Z. Z.; Liu, C.; Lu, J.-J.; Chen, X. P.; Chiu, P.; Kwong, D. W.; Han, Q. B.; Ma, D. L.\*; Leung, C. H.\* *PLoS One*, **2017**, *12*(6) e0177123. <http://dx.doi.org/10.1371/journal.pone.0177123> (IF2016= 4.411)
81. *Rearrangements of  $\alpha$ -Diazo- $\beta$ -hydroxyketones ones for the synthesis of bicyclo[m.n.1]alkanones*. Li, Z.; Lam, S. M.; Ip, I.; Wong, W. T.; Chiu, P.\* *Org. Lett.* **2017**, *19*, 0000.
82. *An approach to the welwistatin core via a diazoketone rearrangement-ring expansion strategy*. Lam, S. M.; Wong, W. T.; Chiu, P.\* *Org. Lett.* **2017**, *19*, 0000. <http://dx.doi.org/10.1021/acs.orglett.7b01988>

**III. SELECTED SEMINARS AND INVITED LECTURES**  
**(INVITED ,PLENARY OR KEYNOTE LECTURES IN BLUE)**

**2000**

10. *A rhodium carbenoid-induced tandem cyclization-cycloaddition approach toward the synthesis of pseudolaric acid A.* **The 220<sup>th</sup> American Chemical Society National Meeting**, Washington D. C. August 20-24, **2000**.
11. *Tandem Reduction-Aldol Reactions Induced by Stryker's Reagent.* **The Third Conference for Worldwide Chinese Young Chemists (CWCYC-3): Invited Speaker**, Xiamen, P. R. China, December 20-23, **2000**.

**2001**

12. **Shanghai Institute of Organic Chemistry**, Shanghai, PR China, November **2001**.

**2002**

13. **Chengdu Institute of Organic Chemistry**, Chengdu, PR China, January **2002**.
14. **Sichuan University**, Chengdu, PR China, January **2002**.
15. **Chinese University of Hong Kong**, Hong Kong, May **2002**.
16. *Studies toward the total synthesis of the pseudolaric acids.* **The 14<sup>th</sup> IUPAC International Conference on Organic Synthesis**, Christchurch, New Zealand, July 14-18, **2002**.
17. *Synthetic Studies toward the Total Synthesis of Pseudolaric Acid,* **The 23<sup>rd</sup> IUPAC International Symposium on the Chemistry of Natural Products (ISCNP-23)**, Florence, Italy, July 28-August 2, **2002**.
18. *Using the Tandem Carbene Cyclization-Cycloaddition Cascade for the Synthesis of Natural Products.* **The 7<sup>th</sup> International Symposium for Chinese Organic Chemists (ISCOC-7): Invited Speaker**, Hsinchu, Taiwan, November 8-11, **2002**. (not attended)

**2003**

19. *Applications of the Rhodium-catalyzed Tandem Carbene Cyclization-Cycloaddition Reaction In Total Synthesis.* **The 12<sup>th</sup> IUPAC International Symposium on Organometallic Chemistry directed toward Organic Synthesis (OMCOS-12)**, Toronto, Canada, July 6-10, **2003**.
20. *Studies Toward the Total Synthesis of Pseudolaric Acid, a Cytotoxic Natural Product.* **The 11<sup>th</sup> Asian Symposium on Medicinal Plants, Spices and Other Natural Products (ASOMPS-11): Invited speaker**, Kunming, China, October 26-30, **2003**.

**2004**

21. **Hong Kong Baptist University**, Hong Kong, May **2004**.
22. Institute of Organic Chemistry, **Technische Universität Dresden**, Dresden , Germany, June **2004**.
23. *The 2003 Summer School of Synthetic Organic Chemistry Award Lectureship: Awardee and **Keynote Speaker***, Nagano, Japan, July 23-25, 2003. Due to SARS, postponed to Kyoto, July 12-14, **2004**.
24. Department of Engineering, **Kyoto University**, Kyoto, Japan, July **2004**.
25. Department of Bioagricultural Sciences, **Nagoya University**, Nagoya, Japan, July **2004**.
26. Department of Pharmaceutical Chemistry, **University of Tokyo**, Tokyo, Japan, **July 2004**.
27. **Keio University**, Yokohama, Japan, July **2004**.
28. *Applications of the Tandem Carbene Cyclization-Cycloaddition Reaction In Total Synthesis.* **The 15<sup>th</sup> IUPAC International Conference on Organic Synthesis (ICOS-15): Invited Speaker**, Nagoya, Japan August 1-6, **2004**.
29. *Novel Applications Of Stryker's Reagent in Organic Synthesis.* **The 8<sup>th</sup> International Symposium for Chinese Organic Chemists (ISCOC-8): Invited Speaker**, Hong Kong, December 19-22, **2004**.

## 2005

30. *Novel Reactions Mediated by Stryker's Reagent*. Institut für Organische Chemie, Technische Universität Dresden, Dresden, June **2005**
31. *Total Synthesis of Pseudolaric Acid, An Anti-mitotic and Anti-tumor Natural Product*. Institut für Organische Chemie, Universität Leipzig, Leipzig, Germany, June **2005**.
32. *Total Synthesis of Pseudolaric Acid, An Anti-mitotic and Anti-tumor Natural Product*. Institut für Organische Chemie, Universität Hannover, Hannover, Germany, June **2005**.
33. *Total Synthesis of Pseudolaric Acid, An Anti-mitotic and Anti-tumor Natural Product*. Institut für Chemie, Freie Universität Berlin, Berlin, Germany, June **2005**.
34. *Copper-catalyzed Hydrostannation of Activated Alkynes*. **The 13<sup>th</sup> IUPAC International Symposium on Organometallic Chemistry directed toward Organic Synthesis (OMCOS-13)**, Geneva, Switzerland, July 17-21 **2005**.
35. *Total Synthesis of Pseudolaric Acids A and B*. **The 4<sup>th</sup> Singapore International Chemistry Conference (SICC-4)**: **Keynote Speaker**, Singapore, December 8-10, **2005**.

## 2006

36. *Total Synthesis of Pseudolaric Acids A and B*. **The 0<sup>th</sup> International Conference on Cutting-Edge Organic Chemistry in Asia: Invited Speaker**, Nagoya, Japan, March 9-10, **2006**.
37. *Total Synthesis of Pseudolaric Acid, An Anti-mitotic and Anti-tumor Natural Product*. Virginia Tech., Blacksburg, VA, USA, August 4, **2006**.
38. *Total Synthesis of Indicol and Related Marine Natural Products*. **The 1<sup>st</sup> International Conference on Cutting-Edge Organic Chemistry in Asia, Post-Conference: Invited Speaker**, Hsinchu, Taiwan, October 21-24, **2006**.
39. *Synthesis of Oxapolycyclic Frameworks Via [4+3] Cycloadditions of Epoxy Enol Silanes*. **The 9<sup>th</sup> International Symposium for Chinese Organic Chemists (ISCOC-9)**: *Invited Speaker*, Singapore, December 17-21, **2006**.

## 2007

40. *Total synthesis of natural products using a carbene cyclization cycloaddition cascade strategy*. **Asian CORE Program Lectureship Award Lecture: Award Speaker**, Nanyang Technological University, Singapore, March 14, **2007**.
41. *The total synthesis of pseudolaric acid – an anti-mitotic and anti-cancer natural product*. **The 2<sup>nd</sup> Dorothy Crowfoot-Hodgkins (DCH) Symposium: Keynote Speaker**, University of Zurich, Switzerland, April 27, **2007**.
42. *Total synthesis of pseudolaric acid using a carbene cyclization cycloaddition cascade strategy*. **Imperial College**, London, UK April 30, **2007**.
43. *Total synthesis of pseudolaric acid using a carbene cyclization cycloaddition cascade strategy*. **Institute for Cancer Research at Sutton**, UK, May 1, **2007**.
44. *Total synthesis of natural products using a carbene cyclization cycloaddition cascade strategy*. **Merck Process Research**, Whitehouse Station, New Jersey, USA, June 8, **2007**.
45. *Total synthesis of natural products using a carbene cyclization cycloaddition cascade strategy*. **Schering-Plough Research Institute**, Kenilworth, New Jersey, USA, June 12, **2007**.
46. *Novel Reactions Mediated by Copper Hydride*. Department of Chemistry, **Nanyang Technological University**, Singapore, July 12, **2007**.
47. *Total synthesis of natural products using a carbene cyclization cycloaddition cascade strategy*. **The US National Science Foundation (NSF)-Research Experience for Undergraduates Symposium: Invited Speaker**, Bangkok, Thailand, August 4, **2007**.
48. *Total synthesis of natural products using a carbene cyclization cycloaddition cascade strategy*. **Asian CORE Program Lectureship Award Lecture: Award Speaker**, KAIST, Dae-Jeon, Korea, August 7, **2007**.

49. *Total synthesis of natural products using a carbene cyclization cycloaddition cascade strategy.* **Asian CORE Program Lectureship Award Lecture: Award Speaker**, POSTECH, Pohang, Korea, August 8, **2007**.
50. *Total synthesis of natural products using a carbene cyclization cycloaddition cascade strategy.* **Asian CORE Program Lectureship Award Lecture: Award Speaker**, Yonsei University, Seoul, Korea, August 10, **2007**.
51. *Novel syntheses mediated by copper hydrides.* Department of Chemistry, **Sun Yat Sen University**, Guangzhou, P. R. China, December 10, **2007**.
52. *Total synthesis of natural products using a carbene cyclization cycloaddition cascade strategy.* Department of Chemistry, **Sun Yat Sen University**, Guangzhou, P. R. China, December 11, **2007**.
53. *Extending the Scope of the Carbene Cyclization Cycloaddition Reaction for Total Synthesis.* **International Symposium on Catalysis and Fine Chemicals 2007: Invited Speaker**, Singapore, December 17-21, **2007**.

## 2008

54. *Assembly of Cycloheptanoids for Total Synthesis.* Department of Chemistry, **National Taiwan University**, Taipei, Taiwan, March 3, **2008**. (Invited Taiwan lecture tour)
55. *Total Synthesis Using the Carbene Cyclization Cycloaddition Cascade Reaction.* Department of Chemistry and Chemical Biology, **National Chung Cheng University**, Chia-Yi, Taiwan, March 4, 2008. (Invited Taiwan lecture tour)
56. *Assembly of Cycloheptanoids for Total Synthesis.* Department of Chemistry, **National Tsing Hua University**, Hsinchu, Taiwan, March 6, **2008**. (Invited Taiwan lecture tour)
57. *Assembly of Cycloheptanoids for Total Synthesis.* Department of Chemistry, **Dalian University of Technology**, Dalian, P. R. China, June 13, **2008**. (Invited China Lecture tour)
58. *Assembly of Cycloheptanoids for Total Synthesis.* Department of Chemistry, **Dalian University**, Dalian, P. R. China, June 13, **2008**. (Invited China Lecture tour)
59. *Assembly of Cycloheptanoids for Total Synthesis.* Department of Chemistry, **Nankai University**, Tianjin, P. R. China, June 16, **2008**. (Invited China Lecture tour)
60. *Assembly of Cycloheptanoids for Total Synthesis.* Department of Chemistry, **Tianjin University**, Tianjin, P. R. China, June 17, **2008**. (Invited China Lecture tour)
61. *Assembly of Cycloheptanoids for Total Synthesis.* Department of Chemistry, **Institute of Chemistry, Chinese Academy of Sciences**, Beijing, P. R. China, June 19, **2008**. (Invited China Lecture tour)
62. *Assembly of Cycloheptanoids for Total Synthesis.* College of Chemistry, **Peking University**, Beijing, P. R. China, June 20, **2008**. (Invited China Lecture tour)
63. *Assembly of Cycloheptanoids for Total Synthesis.* **L'Institut de Chimie des Substances Naturelles (ICSN) of the CNRS**, Gif-sur-Yvette, France, September 18, **2008**.
64. *Assembly of Cycloheptanoids for Total Synthesis.* **Institut de Chimie-Université Louis Pasteur-Strasbourg**, France, September 19, **2008**.
65. *Assembly of Cycloheptanoids for Total Synthesis.* **École Polytechnique Fédérale de Lausanne (EPFL)**, Lausanne, Switzerland, September 25, **2008**.
66. *Assembly of Cycloheptanoids for Total Synthesis.* Faculty of Science, **Hokkaido University**, Sapporo, Japan, October 14, **2008**. (Invited Japan lecture tour)
67. *Assembly of Cycloheptanoids for Total Synthesis.* Department of Pharmaceutical Science, **Tohoku University**, Sendai, Japan, October 15, **2008**. (Invited Japan Lecture tour)
68. *Assembly of Cycloheptanoids for Total Synthesis.* Department of Chemistry, **Tohoku University**, Sendai, Japan, October 15, **2008**. (Invited Japan Lecture tour)
69. *Assembly of Cycloheptanoids for Total Synthesis.* Department of Bioagricultural Sciences, **Tokyo University**, Tokyo, Japan, October 16, **2008**. (Invited Japan Lecture tour)
70. *Assembly of Cycloheptanoids for Total Synthesis.* Department of Chemistry, **Tokyo Institute of Technology**, Ookayama, Japan, October 17, **2008**. (Invited Japan Lecture tour)

71. *Diastereoselective [4+3] Cycloadditions Via Epoxy Enol Silanes. The 3<sup>rd</sup> International Conference on Cutting-Edge Organic Chemistry in Asia: Invited Speaker*, Hangzhou, China, October 19-23, 2008.

## 2009

72. *Assembly of Cycloheptanoids for Total Synthesis. Lonza Research and Development Center*, Guangzhou, China, March 16, 2009.

73. *Assembly of Cycloheptanoids for Total Synthesis. Department of Chemistry, National University of Singapore*, Singapore, June 2, 2009.

74. *Total synthesis and chemical biology of pseudolaric acids. The 5<sup>th</sup> Sino-US Chemistry Professors Symposium, Invited Speaker*, Lanzhou University, Lanzhou, P. R. China, June 29-30, 2009.

75. *Chiral Sultones Via A Carbene Cyclization Cycloaddition Cascade Strategy. The International Startup Conference of Cutting-Edge Organic Chemistry in Asia (II), Invited Speaker*, Chiba University, Chiba, Japan, August 9-12, 2009.

76. *Assembly of Cycloheptanoids for Total Synthesis. Département Chimie Moléculaire, University of Grenoble*, Grenoble, France, December 10, 2009.

77. *Assembly of Cycloheptanoids for Total Synthesis. Institut de Chimie Moléculaire, University of Bourgogne*, Dijon, France, December 11, 2009.

78. *Novel [5+2],[4+3] cycloadditions for the synthesis of polyfunctionalized cycloheptanoids. Institut de Chimie-Université Louis Pasteur-Strasbourg*, Strasbourg, France, December 18, 2009.

## 2010

79. *Diastereoselective and asymmetric cycloadditions: applications to the synthesis of bioactive molecules. Shanghai Institute of Organic Chemistry*, Shanghai, P. R. China, May 31, 2010.

80. *Epoxy Enol Silanes in [4 +3] Cycloadditions. The 57<sup>th</sup> Gordon Research Conference on Organic Reactions and Processes, Invited Speaker*, Bryant University, Smithfield, RI, USA, July 18-23, 2010.

81. *An Intramolecular [4+3] Cycloaddition Strategy Toward the Synthesis of Cortistatin J. The 18th IUPAC International Conference on Organic Synthesis (ICOS-18)*, Bergen, Norway, August 1-6, 2010.

82. *Recent developments in asymmetric [4+3] cycloadditions and their applications to the synthesis of bioactive molecules. Institute of Chemistry, Academia Sinica*, Taipei, Taiwan, October 21, 2010.

83. *[4+3] Cycloadditions of Epoxy and Aziridinyl Enol Silanes and applications to the asymmetric synthesis of bioactive molecules. The 11<sup>th</sup> International Symposium for Chinese Organic Chemists (ISCOC-11): Taipei, Taiwan, October 22-25, 2010, Invited Speaker.*

84. *Synthetic Studies on the Marine Natural Products, Indicol and Dolastatrienol. The 5<sup>th</sup> International Conference on Cutting-Edge Organic Chemistry in Asia, Presymposium (ICCEOCA-5 Presymposium) Kaohsiung, Taiwan, November 5-8, 2010, Invited Speaker.*

85. *[4+3] Cycloaddition Using Epoxy Enol Silanes and Application Toward the Synthesis of Cortistatin J. The National Organic Symposium Trust Organic Chemistry Conference XIV*, Cidade de Goa, Goa, India, December 5-8, 2010, *Invited Speaker.*

86. *Novel reactions mediated by copper hydrides. Pacifichem*, Hawaii, December 15-20, 2010, *Invited Speaker.*

## 2011

87. *Novel Reactions Mediated by Copper Hydride. The 1<sup>st</sup> Münster/Shanghai/Hong Kong Joint Trilateral Symposium on Organometallic Chemistry*, Department of Chemistry, The University of Hong Kong, Hong Kong, March 28-29, 2011, *Invited Speaker.*

88. *Pseudolaric acids from Pseudolarix amabilis: synthetic and bioactivity studies*. 秦嶺藥用植物資源開發與利用國際研討會, Baoji, Shanxi, P. R. China, May 27-29, 2011, *Invited Speaker*.
89. *Studies toward the total synthesis of Cortistatin A and J*. **The 7<sup>th</sup> Sino-US Chemistry Professors Symposium**, Guiyang, June 27-30, **2011**.
90. *(4+3) Cycloadditions Using Epoxy Enol Silanes and Application Toward the Synthesis of Cortistatin J*. School of Chemistry, **University of Science and Technology**, Hefei, Anhui, August 18, **2011**.
91. *Studies toward the total synthesis of Cortistatin A and J*. 药物化学生物学国家重点实验室研究生自主学术交流, Nankai University, Tianjin, October 16, **2011**.

## 2012

92. *Studies Towards the Synthesis of Cortistatins A and J Via Intramolecular and Transannular (4+3) Cycloaddition*. **The 19<sup>th</sup> IUPAC International Conference on Organic Synthesis (ICOS-19)**, Melbourne, Australia, July 1-6, **2012**, *Invited Speaker*.
93. *The (4+3) Cycloaddition of Epoxy Enolsilanes and its Application to the Synthesis of Bioactive Compounds*. **The 12<sup>th</sup> International Symposium for Chinese Organic Chemists (ISCOC-12)**, Lanzhou University, Lanzhou, P. R. China, August 19-22, **2012**, *Plenary Speaker*.
94. *Studies Towards the Synthesis of Cortistatin J Via an Intramolecular (4+3) Cycloaddition*. **The 1<sup>st</sup> International Symposium on Natural Product Synthesis and Process Methods for Drug Manufacture**, Chongqing University, Chongqing, P. R. China, September 26-28, **2012**, *Invited Speaker*.
95. *The construction of cycloheptanoids and its application to total synthesis*. Zhengzhou University, Zhengzhou, Henan, P. R. China, October 23, **2012**.
96. *The construction of cycloheptanoids and its application to total synthesis*. Central China Normal University, Wuhan, Hubei, P. R. China, October 25, **2012**.
97. *The construction of cycloheptanoids and its application to total synthesis*. Sichuan University, Chengdu, Sichuan, P. R. China, October 26, **2012**.
98. *The construction of cycloheptanoids and its application to total synthesis*. Chengdu Institute of Biology CAS, Chengdu, Sichuan, P. R. China, October 27, **2012**.
99. *The construction of cycloheptanoids and its application to total synthesis*. Peking University, Beijing, P. R. China, October 29, **2012**.

## 2013

100. *Studies on (4+3) cycloadditions of epoxy enolsilanes and applications to the synthesis of the cortistatins*. Ecole de Chimie, Faculté des Sciences, Université Catholique de Louvain, Louvain-la-Neuve, Belgium, March 5, **2013**.
101. *Asymmetric (4+3) Cycloadditions and their Applications to the Synthesis of Bioactive Molecules*. National Tsing Hua University, Hsinchu, Taiwan, June 4, **2013** (ACP tour).
102. *Asymmetric (4+3) Cycloadditions and their Applications to the Synthesis of Bioactive Molecules*. National Chung Hsing University, Taichung, Taiwan, June 5, **2013** (ACP tour).
103. *Asymmetric (4+3) Cycloadditions and their Applications to the Synthesis of Bioactive Molecules*. Genomics Research Center, Academia Sinica, Taipei, Taiwan, June 6, **2013** (ACP tour).
104. *Synthetic Studies toward Cortistatin A and J*. **The 15<sup>th</sup> Asian Chemical Congress**, *Invited Speaker* for Technical Session: Total Synthesis of Natural Products, Singapore, August 19-23, **2013**, *Invited Speaker*.
105. *Development of (4+3) cycloadditions for the synthesis of bioactive molecules*. **Journées de Chimie Organique de la Société Chimique de France-Paris 2013** (French Chemical Society, Organic Chemistry Division Meeting JCO 2013), Ecole Polytechnique, Palaiseau, France, September 24-26, **2013**, *Plenary Speaker*.
106. *Development of (4+3) cycloadditions for the synthesis of bioactive molecules*. Institut de Chimie Moléculaire, **University of Bourgogne**, Dijon, France, September 26, **2013**.

107. *Development of (4+3) Cycloadditions For The Synthesis of Bioactive Molecules*. Department of Chemistry, **University of Malaya**, Kuala Lumpur, Malaysia, December 11, **2013** (ACP tour)
108. *Development of (4+3) Cycloadditions For The Synthesis of Bioactive Molecules*. Department of Chemistry, **Universiti Sains Malaysia**, Penang, Malaysia, December 12, **2013** (ACP tour).

## 2014

109. *Formal Total Synthesis of Cortistatin A and J*. **3rd Phase ACP Startup Symposium**, Hsinchu, Taiwan, April 19-22, **2014**, *Invited Speaker*.
110. *Development of (4+3) cycloadditions for the synthesis of bioactive molecules*. State Key Laboratory of Applied and Organic Chemistry, **Lanzhou University**, Lanzhou, P. R. China, May 7, **2014**.
111. *Developments of (4+3) Cycloadditions for the Synthesis of Bioactive Molecules*. School of Pharmacy, **University of Wisconsin-Madison**, Madison, WI, USA, July 7, **2014**.
112. *Formal Total Synthesis of Cortistatin A and J*. **The 28<sup>th</sup> IUPAC International Symposium on the Chemistry of Natural Products**, Shanghai Institute of Materia Medica, Shanghai, P. R. China, October 19-24, **2014**. *Invited Speaker*.
113. *Mechanistic Studies and Applications of An Unusual (4+3) Cycloaddition*. **The 4<sup>th</sup> International Conference on Cutting-edge Organic Chemistry in Asia**, Junior Symposium, Chulaborn Research Institute, Bangkok, Thailand, November 28-30, **2014**. *Invited Speaker*.

## 2015

114. *Development of (4+3) cycloadditions for the synthesis of bioactive and natural products*. **2015 Organic Chemistry Wintermeeting-30 (OKV-30)**, Norwegian Chemical Society Division of Organic Chemistry, Thon Hotel Skeikampen, Gausdal, Norway, January 8-11, **2015**. *Plenary Speaker*.
115. *(4+3) Cycloadditions of Epoxy And Aziridinyl Enolsilanes For The Synthesis of Enantiomerically-enriched Polycyclic Frameworks*. **The 45<sup>th</sup> World Chemistry Congress and 48<sup>th</sup> General Assembly Meeting of the International Union of Pure and Applied Chemistry (IUPAC-2015)**, BEXCO, Busan, Korea, August 9-14, **2015**. *Invited Speaker*.
116. *Syn-selective Enolborate Aldol Reactions*. **Dedicated to Excellence: Hong Kong Symposium for Prof. Harry B. Gray's 80<sup>th</sup> Birthday**, University of Hong Kong, September 18, **2015**. *Invited Speaker*.
117. *Formal total synthesis of Cortistatin A, An Anti-angiogenic Natural Product*, ICCAS-HKU Chemistry Symposium, ICCAS, Beijing, P. R. China, October 13-14, **2015**. *Invited Speaker*.
118. *Studies on the (4+3) Cycloadditions of Epoxy Enolsilanes Leading to the Formal Total Synthesis of the Cortistatins*, 华南前沿有机化学高端论坛, 南方科技大学 (South University of Science and Technology of China), October 16-17, **2015**. *Invited Speaker*.

## 2016

119. *Formal Total Synthesis of Anti-angiogenic Natural Product, Cortistatin A*. **Pure and Applied Chemistry International Conference 2016 (PACCON 2016)**, BITEC, Bangkok, Thailand, February 9-11, **2016**. *Invited Speaker*.
120. *Studies on the (4+3) Cycloadditions Leading to the Formal Total Synthesis of Cortistatin A*. **Chulabhorn Research Institute**, Bangkok, Thailand, February 11, **2016**.
121. *Studies on the (4+3) Cycloadditions of Epoxy Enolsilanes Leading to the Formal Total Synthesis of the Cortistatins*. Laboratori de Química Orgànica, Faculty of Pharmacy, **University of Barcelona**, Spain, June 30, **2016**.
122. *Formal Total Synthesis of Cortistatin A, an Anti-angiogenic Natural Product*. Liping Kuang, Lok Lok Liu, P. Chiu\* **第 11 届全国天然有机化学学术会议**, 上海复旦大学 (Fudan University), September 25-28, **2016**. *Invited Speaker*.

123. *Synthetic Studies towards Welwistatin Based on a Rhodium Carbene Rearrangement Reaction*. Pauline Chiu, **The 1<sup>st</sup> Symposium of the Metal-Carbene Consortium**. Hong Kong, December 1-2, **2016**. *Invited Speaker*.
124. *Intramolecular (4+3) cycloaddition of pyrroles with epoxy enolsilanes*. Jiayun He, Pauline Chiu.\* **The 14<sup>th</sup> International Symposium of Chinese Organic Chemists (ISCOC-14)**, Singapore, December 8-10, **2016**. *Invited Speaker*.
125. *Applications of (4+3) Cycloadditions of Epoxy Enolsilanes to Total Synthesis*. **The 19<sup>th</sup> IUPAC International Conference on Organic Synthesis (ICOS-19)**, IIT Bombay, Mumbai, India, December 11-16, **2016**. *Invited Speaker*.
126. *Synthetic studies towards cortistatin A and himandrine using (4+3) cycloadditions*. Pauline Chiu. Institute of Advance Studies, **Wuhan University**, Wuhan, Hubei, P. R. China, December 30, **2016**. (ACP Lectureship Award Lecture) Host: Prof. Aiwen Lei.

## 2017

126. *Synthetic Studies of Natural Products via (4+3) Cycloaddition Strategies*. Department of Chemistry, Graduate School of Science, Ito Campus, **Kyushu University**, Fukuoka, Japan, March 7, **2017**. (ACP Lectureship Award Lecture tour). Host: Prof. Ryoichi Kuwano.
127. *Synthetic Studies of Natural Products via (4+3) Cycloaddition Strategies*. Department of Applied Molecular Chemistry, Institute of Materials Chemistry and Engineering, Chikusi campus, **Kyushu University**, Fukuoka, Japan, March 8, **2017**. (ACP Lectureship Award Lecture tour). Host: Prof. Katsuhiko Tomooka.
128. *Synthetic Studies of Natural Products via (4+3) Cycloaddition Strategies*. Department of Chemistry, Faculty of Advanced Science and Technology, **Kumamoto University**, Kumamoto, Japan, March 9, **2017**. (ACP Lectureship Award Lecture tour). Host: Prof. Ryo Irie
129. *Synthetic Studies of Natural Products via (4+3) Cycloaddition Strategies*. Graduate School of Biomedical Sciences, **Nagasaki University**, Nagasaki, Japan, March 10, **2017**. (ACP Lectureship Award Lecture tour) Host: Prof. Masanari Kimura/Prof. Jun Ishihara
130. *Studies and Applications of Intramolecular (4+3) Cycloadditions of Pyrroles*. P. Chiu, J. He. **The 100<sup>th</sup> Canadian Chemistry Conference and Exhibition**, Toronto, Canada, May 28-June 1, **2017**.
131. *Applications of the (4+3) cycloaddition of Epoxy Enolsilanes to the synthesis of cortistatin A and himandrine*. Department of Chemistry, **Cambridge University**, Cambridge, UK, July 10, **2017**. Host: Prof. Ian Paterson.
132. *Applications of (4+3) Cycloadditions to Natural Product Synthesis*. **Lilly China Research and Development Center**, Pudong, Shanghai, China, August 31, **2017**.
133. *Studies and Applications of Cycloaddition Reactions of Epoxy and Aziridinyl Enolsilanes*. 滬港合成化學前沿論壇, Shanghai, P. R. China, September 1, **2017**.
134. *Applications of Intramolecular (4+3) Cycloadditions of Furans and Pyrroles to the Synthesis of Natural Products*. J. He, L. L. Liu, L. Kuang, and P. Chiu\* **The 26<sup>th</sup> International Society of Heterocyclic Chemistry Congress**. Regensburg, Germany, September 3-8, **2017**. *Invited Speaker*.
135. *TBA*. **The 7<sup>th</sup> International Conference on Cutting-edge Organic Chemistry in Asia**, Junior Symposium, Lanzhou University, Lanzhou, P. R. China, October 30-November 1, **2017**. *Keynote Speaker*.



## **B. SERVICES & ADMINISTRATION, (Active in Blue)**

### **I. PROFESSIONAL AFFILIATIONS**

Member of the American Chemical Society 1990-2016

Affiliate Member of the International Union of Pure and Applied Chemistry (IUPAC), 2010-present

Fellow of the Royal Society of Chemistry, 2011-present

Member of IUPAC Project: "Strategic Planning for a New East Asian Network for Organic Chemistry" Project No. 2005-039-2-300.

Member of IUPAC Project: "Strategic Planning for a New East and Southeast Asian Network for Organic Chemistry" Project No. 2008-026-1-300.

### **II. PROFESSIONAL SERVICES**

1. Language Editor for Elsevier Publications, Regional Editorial Office (China) of *Tetrahedron*, *Tetrahedron Letters*, August 2002- July 2004.
2. Secretary-General, Asian CORE Program for Cutting-edge Organic Chemistry in Asia, a program sponsored by the JSPS, September 2005- 2010.

#### Community Reports:

1. Isobe, M.; Chiu, P. *Chem. Asian J.* **2006**, *1*, 18-20.
2. Isobe, M.; Chiu, P. *Chem. Asian J.* **2007**, *2*, 452-454.
3. Isobe, M.; Nishikawa, T.; Chiu, P. *Chem. Asian J.* **2010**, *5*, 660-666.
3. Member of Task Group for "Strategic Planning for a new East Asian Network for Organic Chemistry", an IUPAC-sponsored project (2005-039-2-300), January 2006- December 2009.
4. Member of IUPAC Organic and Biomolecular Chemistry Division, Subcommittee on Organic Synthesis, 2006-present.  
[https://iupac.org/who-we-are/divisions/division-details/?body\\_code=301](https://iupac.org/who-we-are/divisions/division-details/?body_code=301)
5. Member of the Editorial Board of *Journal of Heterocyclic Chemistry*, John Wiley and Sons, January 2010-December 2014.
6. Member of the Editorial Board of *Organic and Biomolecular Chemistry*, Royal Society of Chemistry, January 2010-December 2015.
7. Secretary-Treasurer, Hong Kong Chapter of the American Chemical Society, 2010-2013.
8. Co-Chair, International Year of Chemistry 2011 Hong Kong (IYC 2011 HK), 2010-2011.
9. Member of the International Advisory Board of *Asian Journal of Organic Chemistry*, Wiley-VCH, 2012-2020.
10. Member of the China Advisory Board of the Walter de Gruyter Publishers, Inc., 2012- 2015.

11. Member of the Editorial Advisory Board of *Synlett* and *Synthesis*, Georg Thieme Verlag, 2014-2018.
12. Member of the Editorial Board of *Strategies and Tactics in Organic Synthesis*, Book Series, Elsevier Ltd., 2014-present.
13. Asian CORE Program for Cutting-edge Organic Chemistry in Asia, a program initiated by the JSPS: Hong Kong Regional Representative, 2015-present.
14. Member of the Advisory Committee on Water Supplies (ACWS), and Member of the Working Group on Water Quality, The Water Supplies Department/Development Bureau, The Government of Hong Kong, April 1, 2016-March 31, 2018.