

**CURRICULUM VITAE**  
**Hendrik Luesch**

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**Education**

2002–2005	The Scripps Research Institute	Postdoctoral Fellow (advisor: Prof. Peter G. Schultz)	Chemical Biology
1997–2002	University of Hawaii at Manoa	Ph.D. (advisor: Prof. Richard E. Moore)	Chemistry
1994–1997	University of Siegen, Germany	<i>Diplom</i> (advisor: Prof. Horst C. Uzar)	Chemistry
1993–1994	University of Seville, Spain	ERASMUS Scholar	Chemistry
1990–1993	University of Siegen, Germany	<i>Vordiplom</i>	Chemistry

**Professional Experience**

2018–	Visiting Professor, Lee Kong Chian School of Medicine, Nanyang Technological University, Singapore
2015–	Affiliate Professor, Department of Pharmacology & Therapeutics, University of Florida
2015–	Chair, Department of Medicinal Chemistry, University of Florida
2015–	Professor, Department of Medicinal Chemistry, University of Florida
2014–2017	University of Florida Foundation (UFF) Preeminence Term Professorship
2014	Visiting Professor, Institute of Molecular and Cell Biology (IMCB), A*STAR, Singapore
2014–2016	Affiliate Associate Professor, Department of Chemistry, University of Florida
2013–	Debbie and Sylvia DeSantis Chair in Natural Products Drug Discovery and Development
2013–	Director, Center for Natural Products, Drug Discovery and Development (CNP3)
2012–2013	Frank A. Duckworth Eminent Scholar Chair in Drug Research and Development
2011–2014	University of Florida Research Foundation (UFRF) Professorship
2010–2015	Associate Professor, Department of Medicinal Chemistry, University of Florida
2005–2010	Assistant Professor, Department of Medicinal Chemistry, University of Florida

**Research Interests**

Drug discovery and development; chemical biology; marine natural products; secondary metabolites of cyanobacteria; structure determination; biosynthesis of natural products; mechanisms of action; functional and chemical genomics; high-throughput screening, assay development

**Professional Societies**

1998–	American Chemical Society
2002–	American Association for the Advancement of Science
2005–	American Society of Pharmacognosy
2007–	The Society for Neuroscience
2012–	American Society for Pharmacology and Experimental Therapeutics
2015–	American Association for Cancer Research
2016–	American Association of Pharmaceutical Scientists

2017– Florida Society of Clinical Oncology

### **Institutional Affiliations**

2005– UF Health Cancer Center (formerly University of Florida Shands Cancer Center)  
 2005– Member of the Evelyn F. and William L. McKnight Brain Institute (University of Florida)  
 2005– National High Magnetic Field Laboratory (NHMFL)  
 2011– Affiliate Member of the Center for Translational Research in Neurodegenerative Disease (CTRND) of the University of Florida  
 2013– Director, Center for Natural Products, Drug Discovery and Development (CNP3D)  
 2016– AMRIS Internal (UF) Advisory Committee  
 2017– University of Florida ICBR Electron Microscopy Scientific Advisory Board

### **Honors and Awards**

2017 2016 Technology Innovator Award (UF Office of Technology Licensing)  
 2017 Golden Medal Award (Oral Presentation) at The 2<sup>nd</sup> International Conference on Herbal and Traditional Medicine (HTM2017), Bangkok, Thailand  
 2016 Best Oral Presentation Award at the 4<sup>th</sup> Current Drug Development International Conference 2016 (CDD 2016)  
 2015 2014 Technology Innovator Award (UF Office of Technology Licensing)  
 2014–2017 University of Florida Foundation (UFF) Preeminence Term Professorship  
 2014 Top 5 Winner in the video competition of the NIH Common Fund 10-Year Commemoration (honored by Dr. Francis Collins, NIH Director)  
 2013– Debbie and Sylvia DeSantis Chair in Natural Products Drug Discovery and Development  
 2013 US delegate to the 3<sup>rd</sup> Transatlantic Frontiers of Chemistry Symposium  
 2013 *Marine Drugs* Best Paper Award (First Prize)  
 2012–2013 Frank A. Duckworth Eminent Scholar Chair in Drug Research and Development  
 2012 2011 Technology Innovator Award (UF Office of Technology Licensing)  
 2011–2014 University of Florida Research Foundation (UFRF) Professorship  
 2009 Jack Wessel Excellence Award for Assistant Professors  
 2005 University of Florida nominee for the Pew Scholars Program in the Biomedical Sciences  
 2002–2004 Irving S. Sigal Postdoctoral Fellowship  
 2002 W. W. Rehnitz Dissertation Award, Department of Chemistry, University of Hawaii at Manoa  
 2001 Paul J. Scheuer Travel Award for Marine Natural Products Chemistry, Department of Chemistry, University of Hawaii at Manoa  
 2001 Travel Award from the Graduate Student Organization, University of Hawaii at Manoa  
 2001 Travel Award from the American Chemical Society Hawaii section  
 1998 Award for Excellence in Chemistry from the Department of Chemistry and Biology, University of Siegen, Germany  
 1997–1998 Scholarship from the Hans & Eugenia Jütting-Stiftung toward graduate study in the USA  
 1995 Travel Award from the Department of Chemistry and Biology, University of Siegen, Germany  
 1993–1994 Scholarship from the ERASMUS Program to study Chemistry at the University of Seville, Spain

### **Editorial Boards**

2008– Editorial Board member of *Marine Drugs*  
 2013– Review Editor of *Frontiers in Chemical Biology*  
 2018– Editorial Board member of *Natural Product Reports (NPR)*

## Publications

1. Cai, W.; Salvador-Reyes, L. A.; Zhang, W.; Chen, Q.-Y.; Matthew, S.; Ratnayake, R.; Seo, S. J.; Dolles, S.; Gibson, D. J.; Paul, V. J.; **Luesch, H.\*** “Apratyramide, a Marine-Derived Peptidic Stimulator of VEGF-A and Other Growth Factors with Potential Application in Wound Healing” *ACS Chem. Biol.* **2017**, in press.
2. Al-Awadhi, F. H.; Law, B. K.; Paul, V. J.; **Luesch, H.\*** “Grassystatins D–F, Potent Aspartic Protease Inhibitors from Marine Cyanobacteria as Potential Antimetastatic Agents Targeting Invasive Breast Cancer” *J. Nat. Prod.* **2017**, *80*, 2969–2986.
3. Yang, G.; Zhang, Y.; Lee, N. K.; Cozad, M. A.; Kearney, S. E.; **Luesch, H.**; Ding, Y.\* “Cyanobacterial Sfp-type phosphopantetheinyl transferases functionalize carrier proteins of diverse biosynthetic pathways” *Sci. Rep.* **2017**, *7*, 11888.
4. Cai, W.; Chen, Q.-Y.; Dang, L. H.; **Luesch, H.\*** “Apratoxin S10, a Dual Inhibitor of Angiogenesis and Cancer Cell Growth To Treat Highly Vascularized Tumors” *ACS Med. Chem. Lett.* **2017**, *18*, 1007–1012.
5. Al-Awadhi, F. H.; Salvador, L. A.; Law, B. K.; Paul, V. J.; **Luesch, H.\*** “Kempopeptin C, a Novel Marine-Derived Serine Protease Inhibitor Targeting Invasive Breast Cancer” *Marine Drugs* **2017**, *15*, 290.
6. Tocco, V. J.; Christopher, K. G.; Matthews, J. H.; Aggarwal, V.; Paschall, L.; **Luesch, H.**; Licht, J. D.; Dickinson, R. B.; Lele, T. P. “The Nucleus is Irreversibly Shaped by Motion of Cell Boundaries in Cancer and Non-Cancer Cells” *J. Cell. Physiol.* **2017**, in press.
7. Yang, H.; Abouelhassan, Y.; Burch, G.; Kallifidas, D.; Huang, G.; Yousaf, H.; Jin, S.; **Luesch, H.**; Huigens III, R.\* “A Highly Potent Class of Halogenated Phenazine Antibacterial and Biofilm-Eradicating Agents Accessed Through a Modular Wohl-Aue Synthesis” *Sci. Rep.* **2017**, *7*, 2003.
8. Kim, B.; Ratnayake, R.; Lee, H.; Shi, G.; Zeller, S. L.; Li, C.; **Luesch, H.\***; Hong, J.\* “Synthesis and Biological Evaluation of Largazole Zinc-binding Group Analogs” *Bioorg. Med. Chem.* **2017**, *25*, 3077–3086.
9. Alfurhood, J. A.; Sun, H.; Kabb, C. P.; Tucker, B. S.; Matthews, J. H.; **Luesch, H.**; Sumerlin, B. S.\* “Poly(*N*-(2-Hydroxypropyl) Methacrylamide)-Valproic Acid Conjugates as Block Copolymer Nanocarriers” *Polym. Chem.* **2017**, *8*, 4983–4987.
10. Paciaroni, N.; Ratnayake, R.; Matthews, J.; Norwood, V.; Arnold, A.; Dang, L.; **Luesch, H.**; Huigens III, R. W.\* “A Tryptoline Ring Distortion Strategy Leads to Complex and Diverse Biologically Active Molecules from the Indole Alkaloid Yohimbine” *Chem. Eur. J.* **2017**, *23*, 4327–4335.
11. Wu, P.; Cai, W.; Chen, Q.-Y.; Xu, S.; Yin, R.; Li, Y.; Zhang, W.; **Luesch, H.\*** “Total Synthesis and Biological Evaluation of Apratoxin E and Its C30 Epimer: Configurational Reassignment of the Natural Product” *Org. Lett.* **2016**, *18*, 5400–5403.
12. Law, M. E.; Ferreira, R. B.; Davis, B. J.; Higgins, P. J.; Kim, J.-S.; Castellano, R. K.; Chen, S.; **Luesch, H.**; Law, B. K.\* “CUB domain-containing protein 1 and the epidermal growth factor receptor cooperate to induce cell detachment” *Breast Cancer Res.* **2016**, *18*:80.
13. Gunasekera, S. P.; Imperial, L. A.; Garst, C.; Ratnayake, R.; Dang, L. H.; Paul, V. J.\*; **Luesch, H.\*** “Caldoramide, a Modified Pentapeptide from the Marine Cyanobacterium *Caldora penicillata*” *J. Nat. Prod.* **2016**, *79*, 1867–1871.
14. Al-Awadhi, F. H.; Ratnayake, R.; Paul, V. J.; **Luesch, H.\*** “Tasiamide F, a Potent Inhibitor of Cathepsins D and E from a Marine Cyanobacterium” *Bioorg. Med. Chem.* **2016**, *24*, 3276–3282.
15. Gunasekera, S. P.;<sup>+</sup> Li, Y.;<sup>+</sup> Ratnayake, R.;<sup>+</sup> Luo, D.; Lo, J.; Reibenspies, J. H.; Xu, Z.; Clare-Salzler, M. J.; Ye, T.\*; Paul, V. J.\*; **Luesch, H.\*** “Discovery, Total Synthesis and Key Structural Elements for the Immunosuppressive Activity of Cocosolide, a Symmetrical Glycosylated Dimer from Marine Cyanobacteria” *Chem. Eur. J.* **2016**, *22*, 8158–8166. (+ equal contribution)
16. Cai, W.; Matthews, J. H.; Paul, V. J.; **Luesch, H.\*** “Pitiamides A and B, Multifunctional Fatty Acid Amides from Marine Cyanobacteria” *Planta Med.* **2016**, *82*, 897–902.
17. Garrison, A. T.; Abouelhassan, Y.; Norwood, V. M.; Kallifidas, D.; Bai, F.; Nguyen, M. T.; Rolfe, M.; Burch, G. M.; Jin, S.; **Luesch, H.**; Huigens III, R. W.\* “Structure-Activity Relationships of a Diverse

- Class of Halogenated Phenazines That Targets Persistent, Antibiotic-Tolerant Bacterial Biofilms and *Mycobacterium tuberculosis*" *J. Med. Chem.* **2016**, *59*, 3808–3825.
18. Bousquet, M. S.; Ma, J. J.; Ratnayake, R.; Havre, P. A.; Yao, J.; Dang, N. H.; Paul, V. J.; Carney, T. J.; Dang, L. H.; **Luesch, H.**\* "Multidimensional Screening Platform for Simultaneously Targeting Oncogenic KRAS and Hypoxia-Inducible Factors Pathways in Colorectal Cancer" *ACS Chem. Biol.* **2016**, *11*, 1322–1331.
  19. Luo, D.; Chen, Q.-Y.; **Luesch, H.**\* "Total Synthesis of the Potent Marine-Derived Elastase Inhibitor Lyngbyastatin 7 and in Vitro Biological Evaluation in Model Systems for Pulmonary Diseases" *J. Org. Chem.* **2016**, *81*, 532–544.
  20. Al-Awadhi, F. H.; Salvador, L. A.; **Luesch, H.**\* Chapter 7: Screening Strategies for Drug Discovery and Target Identification. In *Marine Biomedicine: From Beach to Bedside*. Baker, B.J., Ed. CRC Press, Boca Raton, Florida, 2016, pp. 135–165.
  21. Garrison, A. T.; Abouelhassan, Y.; Kallifidas, D.; Bai, F.; Ukhanova, M.; Mai, V.; Jin, S.; **Luesch, H.**; Huigens III, R. W.\* "Halogenated Phenazines that Potently Eradicate Biofilms, MRSA Persister Cells in Non-Biofilm Cultures, and *Mycobacterium tuberculosis*" *Angew. Chem. Intl. Ed.* **2015**, *54*, 14819–14823.
  22. Salvador-Reyes, L. A.; Sneed, J.; Paul, V. J.; **Luesch, H.**\* "Amantelides A and B, Polyhydroxylated Macrolides with Differential Broad-Spectrum Cytotoxicity from a Guamanian Marine Cyanobacterium" *J. Nat. Prod.* **2015**, *78*, 1957–1962.
  23. Engene, N.;\* Tronholm, A.; Salvador-Reyes, L. A.; **Luesch, H.**; Paul, V. J. "*Caldora penicillata* gen. nov., comb. nov. (cyanobacteria), a pantropical marine species with biomedical relevance" *J. Phycol.* **2015**, *51*, 670–681.
  24. Luo, D.; **Luesch, H.**\* "A Dive into Membrane Dynamics with Sponge Peptides" *Chem. Biol.* **2015**, *22*, 565–567.
  25. Peddibhotla, S.; Fontaine, P.; Leung, C. K.; Maloney, P.; Hershberger, P. M.; Wang, Y.; Bousquet, M. S.; **Luesch, H.**; Mangravita-Novo, A.; Pinkerton, A. B.; Smith, L. H.; Malany, S.;\* Choe, K.\* "Discovery of ML358, a Selective Small Molecule Inhibitor of the SKN-1 Pathway Involved in Drug Detoxification and Resistance in Nematodes" *ACS Chem. Biol.* **2015**, *10*, 1871–1879.
  26. Salvador-Reyes, L. A.; Engene, N.; Paul, V. J.; **Luesch, H.**\* "Targeted Natural Products Discovery from Marine Cyanobacteria Using Combined Phylogenetic and Mass Spectrometric Evaluation" *J. Nat. Prod.* **2015**, *78*, 486–492.
  27. Salvador-Reyes, L. A.; **Luesch, H.**\* "Biological Targets and Mechanisms of Action of Natural Products from Marine Cyanobacteria" *Nat. Prod. Rep.* **2015**, *32*, 478–503.
  28. Kim, B.; Park, H.; Salvador, L. A.; Serrano, P. E.; Kwan, J. C.; Zeller, S. L.; Chen, Q.-Y.; Ryu, S.; Liu, Y.; Byeon, S.; **Luesch, H.**;\* Hong, J.\* "Evaluation of Class I HDAC Isoform Selectivity of Largazole Analogues" *Bioorg. Med. Chem. Lett.* **2014**, *24*, 3728–3731.
  29. Salvador, L. A.; Park, H.; Al-Awadhi, F. H.; Liu, Y.; Kim, B.; Zeller, S. L.; Chen, Q.-Y.; Hong, J.; **Luesch, H.**\* "Modulation of Activity Profiles for Largazole-Based HDAC Inhibitors through Alteration of Prodrug Properties" *ACS Med. Chem. Lett.* **2014**, *5*, 905–910.
  30. Chen, Q.-Y.; Liu, Y.; Cai, W.; **Luesch, H.**\* "Improved Total Synthesis and Biological Evaluation of Potent Apratoxin S4 Based Anticancer Agents with Differential Stability and Further Enhanced Activity" *J. Med. Chem.* **2014**, *57*, 3011–3029.
  31. Yu, M.; Salvador, L. A.; Sy, S. K. B.; Tang, Y.; Singh, R. S. P.; Chen, Q.-Y.; Liu, Y.; Hong, J.; Derendorf, H.; **Luesch, H.**\* "Largazole Pharmacokinetics in Rats by LC-MS/MS" *Mar. Drugs* **2014**, *12*, 1623–1640.
  32. Kwan, J. C.; Liu, Y.; Ratnayake, R.; Hatano, R.; Kuribara, A.; Morimoto, C.; Ohnuma, K.; Paul, V. J.; Ye, T.; **Luesch, H.**\* "Grassypeptolides as Natural Inhibitors of Dipeptidyl Peptidase 8 and T-Cell Activation" *ChemBioChem* **2014**, *15*, 799–804.
  33. Ratnayake, R.; Liu, Y.; Paul, V. J.; **Luesch, H.**\* "Cultivated Sea Lettuce is a Multiorgan Protector from Oxidative and Inflammatory Stress by Enhancing the Endogenous Antioxidant Defense System" *Cancer Prev. Res.* **2013**, *6*, 989–999.

34. Montaser, R.; Paul, V. J.; **Luesch, H.**\* “Modular Strategies for Structure and Function Employed by Marine Cyanobacteria: Characterization and Synthesis of Pitinoic Acids” *Org. Lett.* **2013**, *15*, 4050–4053.
35. Gupta, E.; Santos, N.; Liu, Y.; Havre, P.; Dang, N. H.; **Luesch, H.**;\* Dang, L. H.\* “Targeting HIF-1 $\alpha$  and HIF-2 $\alpha$  to Overcome Treatment Resistance Mediated by Oncogenic KRAS in Colorectal Cancer” *Journal of Cancer Therapy* **2013**, *4*, 1132–1139.
36. Wang, R.; Mason, D. E.; Choe, K. P.; Lewin, A. S.; Peters, E. C.; **Luesch, H.**\* “*In Vitro* and *in Vivo* Characterization of a Tunable Dual-Reactivity Probe of the Nrf2-ARE Pathway” *ACS Chem. Biol.* **2013**, *8*, 1764–1774.
37. Liu, H.; Liu, Y.; Wang, Z.; Xing, X.; Maguire, A. R.; **Luesch, H.**; Zhang, H.; Xu, Z.;;\* Ye, T.\* “Total Synthesis and Biological Evaluation of Grassypeptolide A” *Chem. Eur. J.* **2013**, *19*, 6774–6784.
38. Salvador, L. A.; Taori, K.; Biggs, J. S.; Jakoncic, J.; Ostrov, D. A.; Paul, V. J.; **Luesch, H.**\* “Potent Elastase Inhibitors from Cyanobacteria: Structural Basis and Mechanisms Mediating Cytoprotective and Anti-Inflammatory Effects in Bronchial Epithelial Cells” *J. Med. Chem.* **2013**, *56*, 1276–1290.
39. Wang, R.; Paul, V. J.; **Luesch, H.**\* “Seaweed extracts and unsaturated fatty acid constituents from the green alga *Ulva lactuca* as activators of the cytoprotective Nrf2-ARE pathway” *Free Radic. Biol. Med.* **2013**, *57*, 141–153.
40. Salvador, L. A.; **Luesch, H.**\* HDAC inhibitors and other histone modifying natural products as emerging anticancer agents. In *Natural Products and Cancer Drug Discovery*. Series: Cancer Drug Discovery and Development; Koehn, F. E., Ed.; Springer: New York, 2013; Chapter 4, pp. 59–95.
41. Liu, Y.; Zhang, W.; Li, L.; Salvador, L. A.; Chen, T.; Chen, W.; Felsenstein, K. M.; Ladd, T. B.; Price, A. R.; Golde, T. E.; He, J.; Xu, Y.;;\* Li, Y.;;\* **Luesch, H.**\* “Cyanobacterial Peptides as a Prototype for the Design of Potent  $\beta$ -Secretase Inhibitors and the Development of Selective Chemical Probes for Other Aspartic Proteases” *J. Med. Chem.* **2012**, *55*, 10749–10765.
42. Montaser, R.; Paul, V. J.; **Luesch, H.**\* “Marine Cyanobacterial Fatty Acid Amides Acting on Cannabinoid Receptors” *ChemBioChem* **2012**, *13*, 2676–2681.
43. Yang, S.; Zhang, W.; Ding, J.; Lo, J.; Liu, Y.; Clare-Salzler, M. J.; **Luesch, H.**;\* Li, Y.\* “Total Synthesis of Grassystatin A, a Probe for Cathepsin E Function” *Bioorg. Med. Chem.* **2012**, *20*, 4774–4780.
44. Salvador, L. A.; **Luesch, H.**\* “Discovery and Mechanism of Natural Products as Modulators of Histone Acetylation” *Curr. Drug. Targets* **2012**, *13*, 1029–1047.
45. Law, M. E.; Corsino, P. E.; Jahn, S. C.; Davis, B. J.; Chen, S.; Patel, B.; Pham, K.; Lu, J.; Sheppard, B.; Nørgaard, P.; Hong, J.; Higgins, P.; Kim, J.-S.; **Luesch, H.**; Law, B. K.\* “Glucocorticoids and histone deacetylase inhibitors cooperate to block the invasiveness of basal-like breast cancer cells through novel mechanisms” *Oncogene* **2013**, *32*, 1316–1329.
46. Santos, N.; Wenger, J. B.; Gupta, E.; Chan, E.; Peicher, K.; Jiang, M.; Liu, Y.; Havre, P.; Dahm, P.; Su, L.-M.; Dang, N. H.; **Luesch, H.**;\* Dang, L. H.\* “Can we develop more effective combination antiangiogenic therapy for patients with cancer?” In: *Horizons in Cancer Research*. Volume 49, Ed., Watanabe, H. S.; Nova Science Publishers, NY; 2012, pp. 65–96.
47. Hong, J.;;\* **Luesch, H.**\* “Largazole: From Discovery to Broad-Spectrum Therapy” *Nat. Prod. Rep.* **2012**, *29*, 449–456.
48. Santos, N.; Wenger, J. B.; Havre, P.; Liu, Y.; Dagan, R.; Imanirad, I.; Ivey, A. M.; Zlotecki, R. A.; Algood, C. B.; Gilbert, S. M.; Allegra, C. J.; Okunieff, P.; Vieweg, J.; Dang, N. H.; **Luesch, H.**; Dang, L. H.\* “Combination Therapy for Renal Cell Cancer: What Are Possible Options?” *Oncology* **2011**, *81*, 220–229.
49. Chen, Q.-Y.; Liu, Y.; **Luesch, H.**\* “Systematic Chemical Mutagenesis Identifies a Potent Novel Apratoxin A/E Hybrid with Improved *In Vivo* Antitumor Activity” *ACS Med. Chem. Lett.* **2011**, *2*, 861–865.
50. Montaser, R.; **Luesch, H.**\* “Marine Natural Products: A New Wave of Drugs?” *Future Med. Chem.* **2011**, *3*, 1475–1489.

51. Wenger, J. B.; Santos, N.; Liu, Y.; Dallas, J.; Subbiah, S.; Hochwald, S.; Huang, E. H.; Dang, D. T.; Allegra, C. J.; **Luesch, H.**;\* Dang, L. H.\* “Can we develop effective combination antiangiogenic therapy for patients with hepatocellular carcinoma?” *Oncol. Rev.* **2011**, *5*, 177–184.
52. Montaser, R.; Paul, V. J.; **Luesch, H.**\* “Pitipeptolides C–F, Antimycobacterial Cyclodepsipeptides from the Marine Cyanobacterium *Lyngbya majuscula*” *Phytochemistry* **2011**, *72*, 2068–2074.
53. Meickle, T.; Gunasekera, S. P.; Liu, Y.; **Luesch, H.**; Paul, V. J.\* “Porpoisamides A and B, two novel epimeric cyclic depsipeptides from a Florida Keys collection of *Lyngbya* sp.” *Bioorg. Med. Chem.* **2011**, *19*, 6576–6580.
54. Salvador, L. A.; Biggs, J. S.; Paul, V. J.; **Luesch, H.**\* “Veraguamides A–G, Cyclic Hexadepsipeptides from a Dolastatin 16-Producing Cyanobacterium *Symploca* cf. *hydroides* from Guam” *J. Nat. Prod.* **2011**, *74*, 917–927.
55. Gunasekera, S. P.; Owle, C. S.; Montaser, R.; **Luesch, H.**; Paul, V. J.\* “Malyngamide 3 and Cocosamides A and B from the Marine Cyanobacterium *Lyngbya majuscula* from Cocos Lagoon, Guam” *J. Nat. Prod.* **2011**, *74*, 871–876.
56. Kwan, J. C.; Meickle, T.; Ladwa, D.; Teplitski, M.; Paul, V.; **Luesch, H.**\* “Lyngbyoic Acid, a ‘tagged’ fatty acid from a marine cyanobacterium, disrupts quorum sensing in *Pseudomonas aeruginosa*” *Mol. Biosyst.* **2011**, *7*, 1205–1216.
57. Lee, S.-U.; Kwak, H. B.; Pi, S.-H.; You, H.-K.; Byeon, S. R.; Ying, Y.; **Luesch, H.**; Hong, J.;\* Kim, S. H.\* “*In Vitro* and *In Vivo* Osteogenic Activity of Largazole” *ACS Med. Chem. Lett.* **2011**, *2*, 248–251.
58. Montaser, R.; Abboud, K. A.; Paul, V. J.; **Luesch, H.**\* “Pitiprolamide, a Proline-Rich Dolastatin 16 Analogue from the Marine Cyanobacterium *Lyngbya majuscula* from Guam” *J. Nat. Prod.* **2011**, *74*, 109–112.
59. Akindele, A. J.;\* Eksioglu, E. A.; Kwan, J. C.; Adeyemi, O. O.; Liu, C.; **Luesch, H.**; James, M. O. “Biological effects of *Byrsocarpus coccineus* in vitro” *Pharm. Biol.* **2011**, *49*, 152–160.
60. Kwan, J. C.; Ratnayake, R.; Abboud, K. A.; Paul, V. J.; **Luesch, H.**\* “Grassypeptolides A–C, Cytotoxic Bis-thiazoline Containing Marine Cyclodepsipeptides” *J. Org. Chem.* **2010**, *75*, 8012–8023.
61. Wenger, J. B.; Chun, S. Y.; Dang, D. T.; **Luesch, H.**; Dang, L. H.\* “Combination therapy targeting cancer metabolism” *Med. Hypotheses* **2011**, *76*, 169–172.
62. Kwan, J. C.; **Luesch, H.**\* “Weapons in Disguise – Activating Mechanisms and Protecting Group Chemistry in Nature” *Chem. Eur. J.* **2010**, *16*, 13020–13029.
63. Salvador, L. A.; Paul, V. J.; **Luesch, H.**\* “Caylobolide B, a Macrolactone from *Symplostatin* 1-Producing Marine Cyanobacteria *Phormidium* spp. from Florida” *J. Nat. Prod.* **2010**, *73*, 1606–1609.
64. Liu, Y.; Salvador, L. A.; Byeon, S.; Ying, Y.; Kwan, J. C.; Law, B. K.; Hong, J.; **Luesch, H.**\* “Anticancer Activity of Largazole, a Marine-Derived Tunable Histone Deacetylase Inhibitor” *J. Pharmacol. Exp. Ther.* **2010**, *335*, 351–361.
65. Matthew, S.; Salvador, L. A.; Schupp, P. J.; Paul, V. J.; **Luesch, H.**\* “Cytotoxic Halogenated Macrolides and Modified Peptides from the Apratoxin-Producing Cyanobacterium *Lyngbya bouillonii* from Guam” *J. Nat. Prod.* **2010**, *73*, 1544–1552.
66. Teo, H.; Ghosh, S.; **Luesch, H.**; Ghosh, A.; Wong, E. T.; Malik, N.; Orth, A.; de Jesus, P.; Perry, A. S.; Oliver, J. D.; Tran, N. L.; Speiser, L. J.; Wong, M.; Saez, E.; Schultz, P.; Chanda, S. K.; Verma, I. M.; Tergaonkar, V.\* “Telomere-independent Rap1 is an IKK adaptor and regulates NF- $\kappa$ B-dependent gene expression” *Nature Cell Biol.* **2010**, *12*, 758–767.
67. Matthew, S.; Ratnayake, R.; Becerro, M. A.; Ritson-Williams, R.; Paul, V. J.;\* **Luesch, H.**\* “Intramolecular Modulation of Serine Protease Inhibitor Activity in a Marine Cyanobacterium with Antifeedant Properties” *Mar. Drugs* **2010**, *8*, 1803–1816.
68. Hur, W.; Sun, Z.; Jiang, T.; Mason, D. E.; Peters, E. C.; Zhang, D. D.; **Luesch, H.**;\* Schultz, P. G.;\* Gray, N. S.\* “A Small-Molecule Inducer of the Antioxidant Response Element” *Chem. Biol.* **2010**, *17*, 537–547.
69. Kwan, J. C.; Teplitski, M.; Gunasekera, S. P.; Paul, V. J.; **Luesch, H.**\* “Isolation and Biological Evaluation of 8-*epi*-Malyngamide C from the Floridian Marine Cyanobacterium *Lyngbya majuscula*” *J. Nat. Prod.* **2010**, *73*, 463–466.

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71. Kwan, J. C.; Taori, K. T.; Paul, V. J.; **Luesch, H.**\* “Lyngbyastatins 8–10, Elastase Inhibitors with Cyclic Depsipeptide Scaffolds Isolated from the Marine Cyanobacterium *Lyngbya semiplena*” *Mar. Drugs* **2009**, *7*, 528–538. (*Marine Drugs Best Paper Award 2013*: Han, O. *Mar. Drugs* **2013**, *11*, 581–583)
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