

Curriculum Vitae

QiYin Chen, PhD

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Education

- 2002 - 2005 **PhD**, Organic Chemistry
Institute of Chemistry, Chinese Academy of Sciences, China
- 1997 - 2000 **MS**, Applied Chemistry
Central South University of Technology (Central South University), China
- 1993 - 1997 **BS**, Chemistry, Henan Normal University, China

Academic Experience

- 2018 - Research Assistant Professor, Depart. of Med. Chem. University of Florida.
- 2012 - 2018 Research Assistant Scientist, Depart. of Med. Chem. University of Florida.
- 2007 - 2012 Postdoc Associate, University of Florida
- 2005 - 2006 Postdoc Associate, Depart. of Indust. Chem., Tokyo University of Science.

Honors

- 2016 “2016 Innovator Award”, University of Florida, FL
- 2004 “Hai Yang Hua Gong” Prize, Institute of Chemistry, CAS, China
- 2004 “Head of Institute of Chemistry” Scholarship, Institute of Chemistry, CAS, China

Peers Review Publications (Selected)

1. **Qi-Yin Chen**; Danmeng Luo; Gustavo Miranda Seabra; Hendrik Luesch.
Ahp-Cyclodepsipeptides as tunable inhibitors of human neutrophil elastase and kallikrein 7: total synthesis of tutuilamide A, serine protease selectivity profile and comparison with lyngbyastatin 7. *Bioorganic & Medicinal Chemistry*, 2020, in press.
2. Al-Awadhi FH; Salvador-Reyes LA; Elsadek LA; Ratnayake R; **Chen QY**; Luesch H. Largazole is a Brain-Penetrant Class I HDAC Inhibitor with Extended Applicability to Glioblastoma and CNS Diseases. *ACS Chem Neurosci*. 2020, 11(13):1937-1943.
3. David A. Brumley, Sarath P. Gunasekera, **Qi-Yin Chen**, Valerie J. Paul, Hendrik Luesch, Discovery, Total Synthesis, and SAR of Anaenamides A and B: Anticancer Cyanobacterial Depsipeptides with a Chlorinated Pharmacophore. *Org. Lett.* 2020, 22, 11, 4235–4239
4. Beiying Qiu; Alison Tan; Amutha Barathi Veluchamy; Yong Li; Hannah Murray; Wei Cheng; Chenghao Liu; Joanna Marie Busoy; **Qi-Yin Chen**; Srivani Sistla; Walter Hunziker; Chui Ming Gemmy Cheung; Tien Yin Wong; Wanjin Hong; Hendrik Luesch; Xiaomeng Wang, Apratoxin S4 Inspired by a Marine Natural Product, a New Treatment Option for Ocular Angiogenic Diseases. *IOVS*, 2019, 60, 3254-3263.

5. Michelle S.Bousquet, Ranjala Ratnayake, Jillian L.Pope, **Qi-Yin Chen**, Fanchao Zhu, Sixue Chen, Thomas J.Carney, Raad Z.Gharaibeh, Christian Jobin, Valerie J.Paul, Seaweed natural products modify the host inflammatory response via Nrf2 signaling and alter colon microbiota composition and gene expression. Hendrik Luesch. *Free Radic Biol Med.* 2019, pii: S0891-5849(19)30996-7.
6. Xiao Liang, Susan Matthew, **Qi-Yin Chen**, Jason C. Kwan, Valerie J. Paul, Hendrik Luesch, Discovery and Total Synthesis of Doscadenamide A: A Quorum Sensing Signaling Molecule from a Marine Cyanobacterium. *Org. Lett.* **2019**, 21, 7274–7278.
7. Weijing Cai, Ranjala Ratnayake, Michael H. Gerber, **Qi-Yin Chen**, Yichao Yu, Hartmut Derendorf, Hendrik Luesch, Development of Apratoxin S10 (Apra S10) as an Anti-pancreatic Cancer Agent and Its Preliminary Evaluation in an Orthotopic Patient-derived Xenograft (PDX) Model. *Investigational New Drugs*, 2019, 37(2), 364-374.
8. Weijing Cai, Susan Matthew, **Qi-Yin Chen**, Valerie J. Paul and Hendrik Luesch, Discovery of New A- and B-Type Laxaphycins with Synergistic Anticancer Activity. *Bioorganic & Medicinal Chemistry* 2018, 26, 2310-2319.
9. **Qi-Yin Chen**, Pravin R. Chaturvedi, Hendrik Luesch, Process Development of and Scale up Total Synthesis of Largazole, a potent class I Histone Deacetylase Inhibitor. *Org. Process Res. Dev.* 2018, 22, 190–199.
10. Weijing Cai, Lilibeth A. Salvador-Reyes, Wei Zhang, **Qi-Yin Chen**, Susan Matthew, Simon Dolles, Daniel J. Gibson, Valerie J. Paul, Hendrik Luesch, Apratyramide, a Marine-Derived Peptidic Stimulator of VEGF-A and Other Growth Factors with Potential Application in Wound Healing" *ACS Chem. Biol.* 2018, 13, 91–99.
11. Weijing Cai, **Qi-Yin Chen**, Long Dang, Hendrik Luesch, Apratoxin S10, a Dual Inhibitor of Angiogenesis and Cancer Cell Growth to Treat Highly Vascularized Tumors. *ACS Medicinal Chemistry Letter* 2017, 8, 1007-1012.
12. Ping Wu, Weijing Cai, **Qi-Yin Chen**, Senhan Xu, Ruwen Yin, Yingxia Li, Wei Zhang, Hendrik Luesch, Total Synthesis and Biological Evaluation of Apratoxin E and Its C30 Epimer: Configurational Reassignment of the Natural Product *Org. Lett.* 2016, 18, 5400-5403.
13. Danmeng Luo, **Qi-Yin Chen** and Hendrik Luesch, 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.
14. **Qi-Yin Chen**, Yanxia Liu and Hendrik Luesch, 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.
15. Mingming Yu, Lilibeth A. Salvador, Sherwin K. B. Sy, Yufei Tang, Ravi S. P. Singh, **Qi-Yin Chen**, Yanxia Liu, Jiyong Hong, Hartmut Derendorf, Hendrik Luesch, Largazole Pharmacokinetics in Rats by LC-MS/MS, *Marine Drugs*, 2014, 12, 1623-1640.
16. Bumki Kim, Heekwang Park, Lilibeth A. Salvador, Patrick E. Serrano, Jason C. Kwan, Sabrina L. Zeller, **Qi-Yin Chen**, Soyoun Ryu, Yanxia Liu, Seongrim Byeon, Hendrik Luesch and

Jiyong Hong, Evaluation of Class I HDAC Isoform Selectivity of Largazole Analogue, *Bioorganic & Medicinal Chemistry Letters*, 2014, 24, 3728-3731.

17. Lilibeth Salvador, Heekwang Park, Fatma Al-Awadhi, Yanxia Liu, Bumki Kim, Sabrina Zeller, **Qi-Yin Chen**, Jiyong Hong, Hendrik Luesch, Modulation of Activity Profiles for Largazole-Based HDAC Inhibitors through Alteration of Prodrug Properties, *ACS Medicinal Chemistry Letters*, 2014, 5, 905-910.
18. **Qi-Yin Chen**, Yanxia Liu and Hendrik Luesch, 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.
19. Yujiro Hayashi, Seiji Aratake, Yoshinaga Imai, Kazuhiro Hibino, **Qi-Yin Chen**, Junichiro Yamaguchi, Tadafumi Uchimaru, Direct Asymmetric α -Amination of Cyclic Ketones Catalyzed by Siloxyproline, *Chemistry - An Asian Journal*, 2008, 3, 225-232.
20. Alan R. Katritzky, **Qi-Yin Chen** and Srinivasa R. Tala, Convenient Preparation of Azo-Dye-Labelled Amino Acids and Amines, *Org. Biomol. Chem.*, **2008**, 6, 2400-2404.
21. Alan R. Katritzky, Srinivasa R. Tala, Hong Lu, Anatoliy V. Vakulenko, **Qi-Yin Chen**, Jothilingam Sivapackiam, Keyur Pandya, Shibo Jiang, and Asim K. Debnath, Design, Synthesis, and Structure-Activity Relationship of a Novel Series of 2-Aryl 5-(4-Oxo-3-phenethyl-2-thioxothiazolidinylidenemethyl)furans as HIV-1 Entry Inhibitors, *J. Med. Chem.* **2009**, 52, 7631-7639.

Patents

1. Hendrik Luesch, Xiao Liang, **Qi-Yin Chen**, Matthew Susan, Janson Kwan, Valerie J. Paul. "Discovery, total synthesis, and bioactivity of doscadenamides." Application No. PCT/US2020/043495.
2. Hendrik Luesch, **Qi-Yin Chen**, "Macrocyclic therapeutic agents, methods of manufacture, and methods of treatment." Application No. PCT/US2015/016743.

Conferences

1. **Qi-Yin Chen**, Weijing Cai, Hendrik Luesch, The Evolution of Apratoxins: Total Synthesis of Natural Products and Analogues with Improved Anticancer Activity. CHI's 13th **Drug Discovery Chemistry**, august, April 2-6, **2018**, San Diego, CA
2. **Qi-Yin Chen**, Yanxia Liu, Weijing Cai, Hendrik Luesch, Total synthesis and Biological Evaluation Analogues of Apratoxin A. Annual Meeting of the American Society of Pharmacognosy (ASP), august, **2014**, Oxford, Mississippi
3. **Qi-Yin Chen**, Srinivasa R. Tala, Alan R. Katritzky, Convenient and Efficient Preparation of Azo-Dye-Labelled Peptides, Peptide Alcohols, Amino Acids and Amines. 9th Annual Florida Heterocyclic and Synthetic Conference, March, **2008**, Gainesville, FL

Reviewer for Scientific Journals

√ European Journal of Organic Chemistry; √ Marine Drugs; √ Tetrahedron; √ Tetrahedron Letter;

√ International Journal of Molecular Sciences; √ Phytomedicine.

Research Interests

√ Drug leads discovery and optimization based on natural products and molecules of pharmaceutical importance; √ Target oriented drug design and synthesis; √ Total synthesis of natural products of pharmaceutical interests; √ Synthesis of pharmaceutical important molecules and bioprobes; √ The development of methodology of organic synthesis in medicinal chemistry; √ Process chemistry.