CURRICULUM VITAE

Personal Information			
Name	Dengguo Wei	Gender	Male
Position Title		Professor	
Working Department		Department of Chemistry, College of Science	
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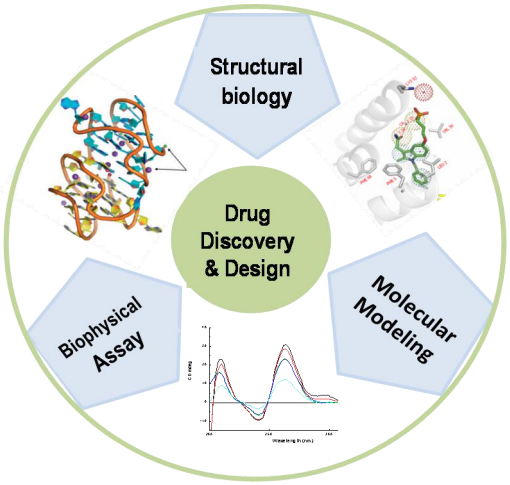
Research Interest

I am dedicated to study biomolecular structures and their interactions with chemical compounds through structural biology, bio-physical assay,organic synthesis and computational modelling.



Professional Memberships

Other Roles

Education & Working Experience

Working experience

2015.6- Huazhong Agriculture University, Professor

2013.6 – 2015.5 The Chemical Biological Centre, Umeå University, Post doctoral fellow

2009.10:~2012.10 School of Pharmacy, University College London (UCL), Cancer Research UK China Postdoctoral fellowship

Education

2005.9:~2009.7 Ph.D. in Bio-Physical Chemistry, Peking University, Beijing, China

2002.9~2005.7 M.S. in Bio-organic Chemistry Central China Normal University, China

1998.9 ~ 2002.7: B.S. in Chemistry, Central China Normal University, China

Publications

1. Flexibility and structural conservation in a c-KIT G-quadruplex
   Dengguo Wei, Jarmila Husby and Stephen Neidle
   Nucleic Acids Res. 2015, 43 (1):629-44 (Impact factor: **9.1**)
2. Crystal structure of a promoter sequence in the *B-raf* gene reveals an intertwined dimer quadruplex.
   Dengguo Wei, Alan K. Todd, Mire Zloh, Mekala Gunaratnam, Gary N. Parkinson, and Stephen Neidle
   J. Am. Chem. Soc., 2013, 135 (51):19319–29 (Impact factor: **12.1**)
3. Small-molecule binding to the DNA minor groove is mediated by a conserved water cluster.
   DengGuo Wei, W David Wilson and Stephen Neidle
   J. Am. Chem. Soc. *2013,* 135(4):1369-77 (Impact factor: **12.1**)
4. Crystal structure of a c-kit promoter quadruplex reveals the structural role of metal ions and water molecules in maintaining loop.
   Dengguo Wei, Gary N. Parkinson, Anthony P. Reszka and Stephen Neidle
   Nucleic Acids Res. 2012, 40(10):4691-700 (Impact factor: **9.1**)
5. Binding Energy Landscape Analysis Helps to Discriminate True Hits from High-Scoring Decoys in Virtual Screening.
   Dengguo Wei, Hao Zheng, Naifang Su, Minghua Deng and Luhua Lai
   J. Chem. Inf. Model., 2010, *50* (10), 1855–64
6. Discovery of Multitarget Inhibitors by Combining Molecular Docking with Common Pharmacophore Matching.
   Dengguo Wei, Xiaolu Jiang, Lu Zhou, Jing Chen, Zheng Chen, Chong He, Kun Yang,Ying Liu, Jianfeng Pei and Luhua Lai
   J. Med. Chem., 2008, *51* (24), 7882–8 **Cited 80 times***
7. Binding Model Construction of Antifungal 2-Aryl-4-chromanones Using CoMFA, CoMSIA, and QSAR Analyses.
   Dengguo Wei, Guangfu Yang, Jian Wan and Changguo Zhan
   J. Agric. Food Chem., 2005, *53* (5), 1604–11
8. Synthesis, herbicidal activities, and 3D-QSAR of 2-cyanoacrylates containing aromatic methylamine moieties.
   Yu-Xiu Liu[&], **Dengguo Wei**[&], Ye-Rong Zhu[&], Shao-Hua Liu, Yong-Lin Zhang, Qi-Qi Zhao, Bao-Li Cai, Yong-Hong Li, Hai-Bin Song, Ying Liu, Yong Wang, Run-Qiu Huang and Qing-Min Wang
   J. Agric. Food Chem. 2008, *56,* 204–12 (Contributed equally to the first author）
9. Modulating the substrate specificity of LTA4H aminopeptidase by using chemical compounds and small-molecule-guided mutagenesis.
   Xiaolu Jiang, Lu Zhou, Yiran Wu, **Dengguo Wei**, Chunyi Sun, Jia Jia, Ying Liu and Luhua Lai
   Chembiochem. 2010 May 17; 11(8):1120-8
10. Controlling arachidonic acid metabolic network: from single- to multi-target inhibitors of key enzymes.
    Ying Liu, Zheng Chen, Er-chang Shang, Kun Yang, Dengguo Wei, Lu Zhou, Xiaolu Jiang, Chong He, Luhua Lai.
    Acta Pharmaceutica Sinica 2009, 44 (3): 231–41

11. Resurveying the Tris buffer solution: the specific interaction between tris (hydroxymethyl) aminomethane and lysozyme.
Li Quan, Dengguo Wei, Xiaolu Jiang, Yang Liu Zhiyu Li, Na Li, Kean Li, Feng Liu and Luhua Lai.
Anal Biochem. 2008; 378(2):144-50.
12. Activation and Inhibition of Leukotriene A_4 Hydrolase Aminopeptidase Activity by Diphenyl Ether and Derivatives
Xiaolu Jiang,Lu Zhou, **Dengguo Wei**, Hu Meng, Ying Liu and Luhua Lai
Bioorg. med. lett. 2008; 18(24):6549-52.

Additional Information

Our group is an interdisciplinary research group which is studying the function and the structures of proteins and nucleic acids related to diseases through structural biology, bio-physical assay and computational modelling, and chemical compounds are being designed and synthesized to mediate their function.

Highly motivated candidates from biology, chemistry, physics, botany and veterinary medicine are welcome!