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Yu-Shan Wu, Drug Des 2015, 4:2
http://dx.doi.org/10.4172/2169-0138.S1.007

International Conference and Expo on
Drug Discovery & Designing
August 11-13, 2015 Frankfurt, Germany

Design and synthesis of potential SRC inhibitors

Yu-Shan Wu[1], **Hsin-Chuan Kuo**[1], **Yun-Jhen Hsieh**[1], **I-Hua Lai**[2], **Yung-Hao Wong**[2], **Sih-Yin Lin**[2], and **Jeremy J W Chen**[2]
[1]Tunghai University, Taiwan
[2]National Chung-Hsing University, Taiwan

Src protein is an important signaling molecule in tumorigenesis and it plays a key role in the regulation of multiple cellular mechanisms. An elevated Src activity has been found in many human tumors, especially in highly metastatic cancer such as lung carcinoma. In an effort to search for efficacious Src inhibitors, both *in silico* virtual screening and *in vitro* screening methods were used to identify possible lead compounds. We have synthesized three of these lead compounds from virtual screening and their inhibitory activities are compared with the binding observed in computer docking. By simplifying the lead compound obtained from *in vitro* screening, we have also designed and synthesized a series of analogs which would hopefully exhibit good Src inhibitory activity.

Biography

Yu-Shan Wu has completed her from the Department of Chemistry, University of Cape Town and Postdoctoral studies from Academia Sinica as well as National Health Research Institutes in Taiwan. She is currently an Associate Professor at Department of Chemistry, Tunghai University in Taiwan.

yushanwu@go.thu.edu.tw

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