



DIPARTIMENTO DI FARMACIA E BIOTECNOLOGIE

AVVISO DI SEMINARIO

Il giorno **martedì 29 Gennaio 2019**
alle ore **14:30**
presso l'Aula 2, via Belmeloro 6

la **Dott.ssa Marie-Louise Jung, PhD**
Prestwick Chemical, Illkirch–Strasbourg, Francia
(ospite Prof.ssa Bolognesi)

terrà un seminario dal titolo:

**SMART SCREENING LIBRARIES OVER THE PAST
20 YEARS AND SUCCESS STORIES IN
MEDICINAL CHEMISTRY**

I colleghi e gli studenti interessati sono cordialmente invitati

Commissione Ricerca e Attività Correlate - FaBiT

ABSTRACT

Prestwick Chemical, created 1999 as a spin-off from the University of Strasbourg has a worldwide recognition for providing smart screening libraries, whereof the Prestwick Chemical Library®, made of drugs out of patent is the flagship. Numerous publications mention this Library. Examples of repositioned drugs into various new applications will be presented [1, 2, 3]. Other libraries, including a recent Fragment collection, are reported for their high interest in various research fields in academic labs & institutions and industry worldwide.

Once screening is performed, Prestwick is considering hit analysis, classification into chemical families and analog search. First steps of SAR are therefore tackled.

Prestwick has as well an impressive track record of compounds designed and prepared in-house which reached clinical phase. Currently, 10 molecules are developed in the clinic (phase I to phase III), coming out of our lead optimization work. One is on the market in oncology.

A collaborative project between Prestwick & biotech & academic lab will be presented, which led to a CNS compound currently in clinical phase II.

References:

[1] Gaud, A.; Simon, JM.; Witzel, T.; Carre-Pierrata, M.; Wermuth, CG.; Segalat, L. *Neuromuscul. Disord.* 2004, 14, 365.

[2] Tribouillard-Tanvier, D.; Béringue, V.; Desban, N.; Gug, F.; Bach, S.; Voisset, C.; Galons, H.; Laude, H.; Vilette, D.; Blondel, L. *PLoS ONE*, 2008, 3, e1981

[3] Corbel, C.; Zhang, B.; Le Parc, A.; Baratte, B.; Colas, P.; Couturier, C.; Kosik, KS.; Landrieu, I.; Le Tilly, V.; Bach, S. *Chemistry & Biology*, 2015, 22, 472

BIOGRAPHICAL SKETCH



Marie-Louise is currently Vice-President Sales & Business Development of Prestwick Chemical in Strasbourg. She started the company in 1999 with Prof. Camille Wermuth and put in place the fundamentals of the company, first as general manager.

Prior to joining Prestwick, she was a sales manager at Antibody Solutions Inc., a biotechnology company headquartered in the U.S. specializing in customized monoclonal antibodies. Formerly she worked for > 10 years for a Swiss pharma company exploring phytochemicals in oncology, and earlier in various research laboratories at the Strasbourg University, mostly in anti-cancer drug discovery. Marie-Louise Jung is a pharmacist graduate of the Faculty of Pharmacy of the Strasbourg University, and her Ph.D. is in Biochemistry.