



UNIVERSITÀ DEGLI STUDI
MAGNA GRÆCIA DI CATANZARO



DOTTORATO DI RICERCHE
IN SCIENZE DELLA VITA

UNIVERSITÀ DEGLI STUDI MAGNA GRÆCIA DI CATANZARO
- DIPARTIMENTO DI SCIENZE DELLA SALUTE -
- DOTTORATO DI RICERCHE IN SCIENZE DELLA VITA -
- SCUOLA DI SPECIALIZZAZIONE IN FARMACIA OSPEDALIERA -

SEMINARIO CORSO CV_S_053

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



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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

CAMPUS UMG DI CATANZARO – CORPO H

AULA M, LIVELLO -1 – 17 SETTEMBRE 2019, ORE 10:00

HOST: STEFANO ALCARO alcaro@unicz.it

SEMINARIO APERTO A DOTTORANDI, SPECIALIZZANDI E STUDENTI CdL IN FARMACIA, STPA, BIOTECNOLOGIE TRIENNALE E MAGISTRALE.