DIPARTIMENTO DI FARMACIA E BIOTECNOLOGIE

AVVISO DI SEMINARIO

Il giorno venerdì **22 Novembre 2019**
alle ore **14:30**
presso l'Aula 2, via Belmeloro 6, Bologna

Dott.ssa Roberta Tesch, Ph.D.

Goethe University Frankfurt am Main
Structural Genomics Consortium (SGC-Frankfurt), Germany
(ospite Prof.ssa Bolognesi)

terrà un seminario dal titolo:

OPEN SCIENCE: THE SGC NETWORK

Colleghi e studenti sono cordialmente invitati

Commissione Ricerca e Attività Correlate - FaBiT

ABSTRACT

Open Science is a movement that supports accessibility, collaboration, inclusion and data sharing in order to improve the quality of research but also to move forward the knowledge surrounding different research topics. In this context the Structural Genomics Consortium has been working with an open science philosophy since its beginning in 2004 and today has an integrative network with sites in Oxford, Canada, Sao Paulo, Sweden, USA and Germany with collaboration partners from academia and industry.
The Structural Genomics Consortium at the Goethe University Frankfurt (SGC Frankfurt) is focused on the development of selective inhibitors (chemical probes), leading to a better understanding of the biological role of key signaling molecules and that may serve as a starting point to target these proteins in different diseases.
Three research programs are explored at the SGC-Frankfurt for the development of chemical probes i.e probes for the study of the human kinome, the ubiquitin system, and the autophagy system. The fourth and more recent program is the Open Science Probes, in which several pharmaceutical companies (AbbVie, Bayer, Boehringer Ingelheim, Janssen, MSD, Pfizer, and Takeda) have entered into a pre-competitive collaboration with the SGC, to make a large number of these innovative high-quality probes available to the research community. This includes all probe-associated data, control compounds, and recommendations on use, thereby providing both a formidable resource of chemical tools and target-related knowledge in order to help researchers to decide, which chemical tools to choose.

BIOGRAPHICAL SKETCH

Roberta Tesch studied Pharmacy at Estácio de Sá University (Rio de Janeiro, Brazil). She did her Master's thesis at Federal University of Rio de Janeiro (UFRJ) in the group of Prof. Eliezer J. Barreiro, where she worked on in silico studies of adenosine receptors to understand the subtype selectivity of agonists/antagonists. For her PhD thesis in the same group, she focused on the application of virtual screening protocols to identify potential new scaffolds for protein kinases. During her PhD, she was awarded a one-year scholarship to work in the group of Prof. Daniel Rauh (Dortmund, Germany) on structural biology, particularly on protein kinase crystallization. After a postdoc period in the group of Prof. Stefan Laufer (Tübingen, Germany) applying Structure-Based Drug Design on protein kinases, she joined the group of Prof. Stefan Knapp in May 2018. Currently, she is focusing on the structural biology of salt-inducible kinases (SIKs) by using conventional and in silico methods to guide the design of recombinant proteins and establish a structural model.