



Med Chem seminar



Wednesday 26. February, 11.00 – 12, Room Ø279, Physics Building,
The University of Oslo

**Professor Organic Chemistry,
Dr. Fabrice Anizon**

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**Synthesis and biological evaluation of pyrrolo[2,3-*a*]carbazole and fused indazole
derivatives**

The Pim family of protein kinases is composed of three closely related isoforms (Pim-1, Pim-2, and Pim-3) involved in survival pathways in cancer cells. Moreover, elevated level of Pim kinases have been found in hematopoietic malignancies and solid tumors such as prostate cancer. These findings gave rise to a growing interest in the development of Pim kinase inhibitors as antitumor agents. As part of our ongoing studies aiming at developing new inhibitors of these kinases, we synthesized new heteroaromatic derivatives based on the pyrrolo[2,3-*a*]carbazole and indazole scaffolds. The synthesis and the biological evaluation (Pim inhibitory potency and in vitro antiproliferative activities) of these compounds as well as molecular modeling studies will be presented.

Suchaud, Virginie; Gavara, Laurent; Saugues, Emmanuelle; Nauton, Lionel; They, Vincent; Anizon, Fabrice; Moreau, Pascale. *Bioorganic & Medicinal Chemistry* (2013), 21(14), 4102-4111