

Development of Small Molecules for Chemical Biology

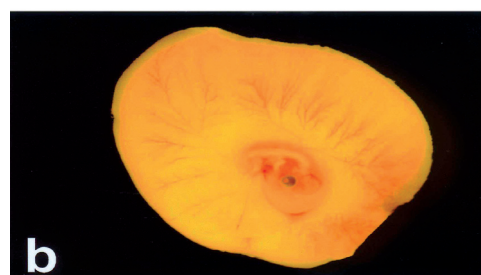
» Prof. Dr. Athanassios Giannis

Keywords

- Angiogenesis
- Epigenetics
- Kinesins

The group's focus of research is to develop chemical tools for the investigation of biological processes, e. g. angiogenesis, apoptosis, or modulation of epigenetic mechanisms by histone acetyltransferase (HAT) inhibitors. Another point of interest is the manipulation of signalling pathways by inhibitors of receptor tyrosine kinases (ATP analogues), as well as modulation of protein palmitoylation. A third research issue is the focus on the metabolism of sphingolipids and the biosynthesis of N-Acetylneuraminic acid.

The latest area of research is the development of inhibitors of mitotic kinesines as new anti-tumour agents.



Contact

Prof. Dr. Athanassios Giannis
Professur für Organische Chemie/
Naturstoffchemie

Fakultät für Chemie und
Mineralogie
Institut für Organische Chemie
Johannisallee 29
04103 Leipzig

fon +49 341 97-36581
fax +49 341 97-36599
giannis@chemie.uni-leipzig.de
www.uni-leipzig.de/~organik/
giannis

MAZITSCHKEK, R.; GIANNIS, A.

Inhibitors of angiogenesis and cancer-related receptor tyrosine kinases. *Current opinion in chemical biology* 8 (4) (2004), 432–441.

GEY, C.; KYRYLENKO, S.; HENNIG, L.; NGUYEN, L. D.; BÜTTNER, A.; PHAM, H. D.; GIANNIS, A.

Phloroglucinol Derivatives Guttiferone G, Aristoforin, and Hyperforin: Inhibitors of Human Sirtuins SIRT1 and SIRT2**. *Angew. Chem. Int. Ed.* 46 (2007), 5219–5222.

SARLI, V.; GIANNIS, A.

Inhibitors of Mitotic Kinesins: Next-Generation Antimitotics. *ChemMedChem* 1 (2006), 293–298.