

- Faculté des sciences
- www.unine.ch/sciences

Natural products chemistry (3CH2018)

Filières concernées	Nombre d'heures	Validation	Crédits ECTS
Master en biologie	Cours: 7 dj	contrôle continu: 1	3

ph=période hebdomadaire, pg=période globale, j=jour, dj=demi-jour, h=heure, min=minute

Période d'enseignement:

- Semestre Printemps

Equipe enseignante:

Stephan von Reuss

Objectifs:

- Importance of Natural Products with a focus on chemical ecology and analytical chemistry
- Methods to isolate and to determine the structures of Natural Products
- Methods to detect the bioactive principles in complex mixtures
- Methods to elucidate the biosynthesis of Natural Products
- Chemical, physiological, ecological and pharmaceutical properties of Natural Products

Contenu:

- Introduction to Natural Products Chemistry
- Methods for Natural Products analyses and structure elucidation
- Selected classes of Natural Products
- Biogenesis of Natural Products
- Methods for the elucidation of biosynthetic pathways
- Functions and applications of natural products

Forme de l'évaluation:

Continuous evaluation composed of:

Short presentation of selected research articles & participation in corresponding discussions (50%), performance in laboratory sessions (25%), results of short written test (25%).

Documentation:

<https://moodle.unine.ch/>
Registration compulsory

Pré-requis:

University introductory courses in general chemistry, organic chemistry, analytical chemistry, and Natural substances analyses (3BL2196).

Forme de l'enseignement:

Lectures,
Presentation of selected research articles by students,
Laboratory sessions