Module title			Abbreviation
Biopolymers			03-BIOPOL-222-m01
Module coordinator		**Module offered by**	
holder of the Chair of Macromolecular Chemistry		Faculty of Medicine	
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
5	numerical grade	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	--	--	

Contents

Organisms produce biologically active macromolecules (polysaccharides, proteins, nucleic acids, etc.) that perform (survival) important functions in structure, movement, recognition, metabolic and information storage. These naturally occurring polymers can also be isolated, chemically modified and commercialized for further applications. In addition, novel macromolecules can additionally be synthetically derived from bio-based feedstocks, which are increasingly used as sustainable and degradable biopolymers.

Intended learning outcomes

The student will acquire fundamental knowledge of naturally occurring macromolecules, their production, function, modification, and application in various biological contexts and everyday areas.

Courses (type, number of weekly contact hours, language — if other than German)

V (2) + Ü (1) + P (1)
Module taught in: V, Ü: English

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

a) written examination (approx. 90) or
b) oral examination of one candidate each (20 to 30 minutes) or
c) talk (approx. 30)
Language of assessment: English

Allocation of places

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Additional information

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Workload

150 h

Teaching cycle

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Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Functional Materials (2022)
Master's degree (1 major) Chemistry (2024)