| Modulbezeichnung | MALS-Toxikologie |
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| **Modulbezeichnung (eng.)** | MALS-Toxicology |
| **Semester (Häufigkeit)** | WPM (nach Bedarf) |
| **ECTS-Punkte (Dauer)** | 5 (1 Semester) |
| **Art** | Wahlpflichtmodul |
| **Studentische Arbeitsbelastung** | 60 h Kontaktzeit + 90 h Selbststudium |
| **Voraussetzungen (laut MPO)** | no |
| **Empf. Voraussetzungen** | no |
| **Verwendbarkeit** | MALS |
| **Prüfungsform und -dauer** | Klausur/Exam 1,5h |
| **Lehr- und Lernmethoden** | Vorlesung/Lecture |
| **Modulverantwortliche(r)** | M.Batke |

**Qualifikationsziele**
We will deal intensively with special issues of toxicology and thus develop a deeper understanding of toxicological assessments of chemicals, starting from exposure and dose-response relationships, through standardised test procedures to in vitro and in silico methods and alternative assessment strategies.

**Lehrinhalte**
The lecture comprises background and applications of the following topics: external and internal exposure, dose-response relationships, standardised test methods (animal tests according to OECD guidelines), classical risk assessment of chemicals and food ingredients/contaminants, in-vitro tests (e.g. genotoxicity, mutagenicity), in silico methods (e.g. adverse outcome pathway (AOP) skin sensitisation, (quantitative) structure-activity relationships ((Q)SAR), threshold of toxicological concern (TTC)), alternative assessment strategies (e.g. read across, AOP, Integrated Approach to testing and assessment (IATA)).

**Literatur**
to be communicated in the lecture

**Lehrveranstaltungen**

| Dozenten/-innen | Titel der Lehrveranstaltung | SWS |
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