| | Advanced methods in biochemistry and biophysics | Compulsory elective module in the core area C3 | 5 CP (total) = 150 h | | | | 4 SWS |
|---|--|---|---|-------------------------|------------------------------|----------------------|------------|
| [C3.2] | | | Contact h 4 SWS / 66 | | Indepe study 9 | | |
| Content | | | | | | | |
| students. | se consists of 2 different exp | | | | | | |
| that are neces | ion of a membrane prote ssary to prepare samples for f disruption, membrane isolations. The obtained results are su | urther functional or s on, solubilization, pur | tructural bio fication, and | logical stu incorpor | idies are to ation of the | be carried membra | l out. Thi |
| in the mem experiments | iology: The students investiç brane (light-inducible cation are performed on <i>Xenopus la</i> omatic Nemametrix-Screencl | n channel channelrh evis oocytes and meas | odopsin-2). | Two-Elec | trode Volta | age Clam | p (TEVC |
| Learning outcomes a | and skills | | | | | | |
| After completing t | he module, students can: | | | | | | |
| plan and per | rform basic biochemical expe | riments with membra | ne proteins | | | | |
| • discuss and | interpret biochemical data | | | | | | |
| write a man | • | | | | | | |
| | interpret basic electrophysio | - | | | | | |
| _ | ecord and evaluate relevant of | | | | | | |
| correctly pre | esent and interpret the results | s obtained | | | | | |
| Lecture of the Adv | r knowledge vanced Methods in Biochemi | stry module C2.1. | | | | | |
| Organizational detai | ils | | | | | | |
| | | | | | | | |
| _ | tution of a membrane protein | = | | | ester as a blo | ock practio | cal course |
| The part 'Electropl | nysiology' takes place during | the lecture-free period | l after the wi | nter seme | ester as a blo | ock practio | cal course |
| The part 'Electropl | nysiology' takes place during degree programme/faculty | the lecture-free period Master Bioch | l after the wi | nter seme | ester as a blo | ock practio | cal course |
| The part 'Electropl Module allocation (Module transferrabl | nysiology' takes place during | the lecture-free period /) Master Bioch | l after the wi nemistry / FI | nter seme | ester as a blo | ock practio | cal course |
| The part 'Electropl Module allocation (o Module transferrabl Module offered | nysiology' takes place during degree programme/faculty | mes winter seme | l after the wi nemistry / FI | nter seme | ster as a blo | ock practio | cal course |
| The part 'Electroph Module allocation (of Module transferrable Module offered Duration | nysiology' takes place during degree programme/faculty e to other degree program | mes Winter seme 1 semester | l after the wi nemistry / FI | nter seme | ester as a blo | ock practio | cal course |
| The part 'Electropl Module allocation (o Module transferrabl Module offered Duration Module coordinator | nysiology' takes place during degree programme/faculty e to other degree program | mes winter seme | l after the wi nemistry / FI | nter seme | ester as a blo | ock practio | cal course |
| The part 'Electropl Module allocation (of Module transferrable Module offered Duration Module coordinator Course requirement | nysiology' takes place during degree programme/faculty e to other degree program s for credits | mes Winter seme 1 semester Dr Liewald | l after the wi nemistry / Fl ster | nter seme | ester as a blo | ock practio | cal course |
| The part 'Electrople Module allocation (of Module transferrable Module offered Duration Module coordinator Course requirement Participation re | nysiology' takes place during degree programme/faculty e to other degree program s for credits | winter seme 1 semester Dr Liewald regular atter | l after the wi nemistry / Fl ster | nter seme | | • | |
| The part 'Electroph Module allocation (of Module transferrable Module offered Duration Module coordinator Course requirement Participation re Coursework | nysiology' takes place during degree programme/faculty e to other degree program s for credits | mes Winter seme 1 semester Dr Liewald | l after the wi nemistry / Fl ster | nter seme | | • | |
| The part 'Electrople Module allocation (of Module transferrable Module offered Duration Module coordinator Course requirement Participation re Coursework Forms of teaching / | nysiology' takes place during degree programme/faculty e to other degree program s for credits cord | winter seme 1 semester Dr Liewald regular atter Fulfillment a | l after the wi nemistry / Fl ster | nter seme | | • | |
| The part 'Electrople Module allocation (of Module transferrable Module offered Duration Module coordinator Course requirement Participation recoursework Forms of teaching / Language teaching a | nysiology' takes place during degree programme/faculty e to other degree program s for credits cord | winter seme 1 semester Dr Liewald regular atter Fulfillment a | l after the winemistry / Flaster Indianate and protocols | nter seme | ractical cour | rse experi | |
| The part 'Electroph' Module allocation (of Module transferrable Module offered Duration Module coordinator Course requirement Participation re Coursework Forms of teaching / Language teaching at Module assessment | nysiology' takes place during degree programme/faculty e to other degree program s for credits cord learning and instruction | winter seme 1 semester Dr Liewald regular atter Fulfillment a English Form | after the winemistry / Flaster adance and protocols | s of the pr | ractical cour | rse experi | |
| The part 'Electrople Module allocation (of Module transferrable Module offered Duration Module coordinator Course requirement Participation re Coursework Forms of teaching / Language teaching at Module assessment Final module assessment | nysiology' takes place during degree programme/faculty e to other degree program s for credits cord dearning und instruction | winter seme 1 semester Dr Liewald regular atter Fulfillment a English Protocols (u. | after the winemistry / Flaster adance and protocols | s of the pr | ractical cour | rse experi | |
| The part 'Electroph' Module allocation (of Module transferrable Module offered Duration Module coordinator Course requirement Participation re Coursework Forms of teaching / Language teaching at Module assessment Final module asses Cumulative mod | nysiology' takes place during degree programme/faculty e to other degree program s for credits cord learning and instruction essment ule assessment consisting | winter seme 1 semester Dr Liewald regular atter Fulfillment a English Protocols (u. | after the winemistry / Flaster adance and protocols | s of the pr | ractical cour | rse experi | |
| The part 'Electrophe Module allocation (of Module transferrable Module offered Duration Module coordinator Course requirement Participation re Coursework Forms of teaching A Module assessment Final module assessment Cumulative mod | degree programme/faculty e to other degree program s for credits cord learning and instruction essment ule assessment consisting the module grade for | winter seme 1 semester Dr Liewald regular atter Fulfillment a English Protocols (u. | after the winemistry / Flaster adance and protocols | s of the pr | ractical cour | rse experi | |
| The part 'Electroph' Module allocation (of Module transferrable Module offered Duration Module coordinator Course requirement Participation recoursework Forms of teaching / Language teaching at Module assessment Final module assessment Cumulative mod Composition of t | degree programme/faculty e to other degree program s for credits cord learning and instruction essment ule assessment consisting the module grade for | winter seme 1 semester Dr Liewald regular atter Fulfillment a English Protocols (u. | after the winemistry / Flaster adance and protocols | s of the pr | ractical coun | rse experi | |

Advanced methods in biochemistry and biophysics

Electrophysiology

Reconstitution of a membrane protein

1.

2.

TOTAL