

Curriculum

Master of Molecular and Developmental Stem Cell Biology

| Semester | Modul Name | F | No | L | S | P | CP |
|--------------------------|--|-----|------|----|----|------|-----|
| 1. Semester (WiSe) | Stem Cell Physiology I | M | I | 2 | 1 | | 5 |
| | Stem Cell Lecture Series I | V | VIII | 1 | | | 2 |
| | Bioinformatics | C | II | 2 | 1 | | 5 |
| | 4x Stem Cell Practical Courses | V | III | | 4 | 16 | 16 |
| | Language Course I | V | XIII | | 1 | | 2 |
| 28 SWS | Summe: 1. Semester | | | 5 | 7 | 16 | 30 |
| 2. Semester (SoSe) | Stem Cell Physiology II | C,B | I | 2 | 1 | | 5 |
| | Stem Cell Lecture Series II | V | VIII | 2 | | | 3 |
| | Molecular Tracing Methods | M,R | VII | | 1 | 3 | 5 |
| | Molecular Genetic Methods | M | IV | 2 | 1 | | 5 |
| | Tissue Engineering | V | V | 2 | 1 | | 5 |
| | Lab Rotation | V | X | | 1 | 8 | 5 |
| | Language Course II | V | XIII | | 1 | | 2 |
| 25 SWS | Summe: 2. Semester | | | 8 | 6 | 11 | 30 |
| 3. Semester (WiSe) | Stem Cell Lecture Series III Advances in Stem Cell Research | V | XI | 1 | 1 | | 2 |
| | Pathology of Degenerative Diseases | M | VI | 2 | 1 | | 5 |
| | Course in Animal Care and Handling | M | IX | 2 | | 1.5 | 5 |
| | Bioethics including Legal Aspects | E | IX | | 2 | | 3 |
| | Lab Bench Project & Grant Writing | V | XI | | 1 | 13 | 15 |
| 24.5 SWS | Summe: 3. Semester | | | 5 | 5 | 14.5 | 30 |
| 4. Semester | Master Project | V | XII | | | | 30 |
| | Total | | | 18 | 19 | 41.5 | 120 |

- B: Biology, RUB
 C: Biochemistry, RUB
 E: Applied Ethics, RUB
 F: Faculty
 CP: Credit Points
 M: Medical Faculty, RUB
 No: Number of Modules
 P: Practical
 R: RUBION – Central Unit for Ionbeams and Radionuclides, RUB
 S: Seminar
 L: Lecture
 V: Various