

**Department of Biology** 

Biochemistry

## Courses

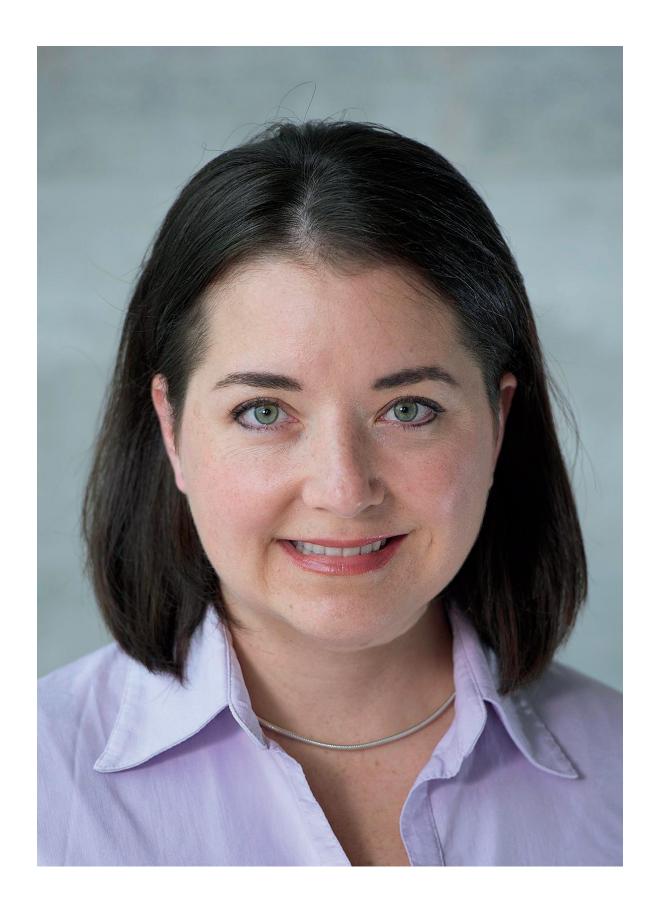
Concept courses         551-0319-00L/551-0320-00L           Cellular Biochemistry (Part II)/ Cellular Biochemistry         551-1303-00L           A Problem-Based Approach to Cellular Biochemistry         551-1303-00L           A Problem-Based Approach to Cellular Biochemistry         551-1303-00L           Cellular Biochemistry of Heath and Disease         551-10326-00L           Concept is Modern Genetics         551-0326-00L           Concept and Modern Genetics         551-0326-00L           Concept and Structural Biology IP Potein Structure and Matchies and Cellular Assemblies         551-0326-00L           Master courses         551-0307-00L           Autimm semester         401-0649-00L           Applied Statistical Regression         401-0649-00L           Applied Statistical Regression         401-0649-00L           Cellular Matters: Properties, Functions and Applications of         51-037-00L           Generational Biology and Synthetic Biochemistry         529-0733-02L           Computational Systems Biology         636-0007-00L           Moderne Massenspektroskopie. gekoppelte Analysonme-         551-0322-00L           HAB Biology Letture Series II: Transcription & Processing & 51-10407-00L         4           Aranseldon         551-0326-00L         2           RAB Biology Letture Series II: Non-Coding RNAs: Biology         551-0326-00L	Compulsory courses		
Cellular Biochemistry (Part III)       551-0319-00L/551-0320-00L       4         Master courses (one of the following)       551-1310-00L       6         A Problem-Based Approach to Cellular Biochemistry       551-1310-00L       6         Cell Biochemistry of Health and Disease       551-0326-00L       6         Concept in Mealth and Disease       551-0326-00L       6         Concept in Mealth and Disease       551-0307-00L       6         Concept in Mealth and Disease       551-0307-00L       6         Concept in Mealth and Disease       551-0307-00L       6         Master courses       401-0649-00L       6         Master courses       401-0649-00L       6         Applied Statistical Regression       401-0649-00L       6         Applied Statistical Regression       401-0649-00L       6         Cellular Matters: Properties, Functions and Applications of S10-0357-00L       6         Computational Systems Biology       630-007-00L       6         Moderne Massenspaktraskopie, gekappette Analyseme-       551-1407-00L       6         Moderne Massenspaktraskopie, gekappette Analyseme-       551-0324-00L       6         Khan Biology Lecture Series I: Transcription & Processing & S1-1032-00L       4       6         Systems Biology of Metabolism       551-			
Master courses (one of the following)         S51-130-00L         Concent Courses           Cellular Biochemistry of Health and Disease         S51-130-00L         Concent Courses           Concept courses         S51-0326-00L         Concent Courses           Concept courses         S51-0326-00L         Concent Courses           Concept courses         S51-0326-00L         Concent Courses           Concept courses         S51-0309-00L         Concent Courses           Machines and Cellular Assembles         S51-0309-00L         Concent Courses           Machines and Cellular Assembles         S51-0309-00L         Concent Courses           Mather sources         Concent Courses         S51-0307-00L         Concent Courses           Mather sources         Concent Courses         S51-0307-00L         Concent Courses           Mather Subsciss         Course Courses         S51-0357-00L         Course Courses           Call Biophysics         S22-0733-02L         Course Co	Concept courses		
A Problem-Based Approach to Cellular Biochemistry       551-1300-00L       4         Cellular Biochemistry of Health and Disease       551-1302-00L       4         Elective compulsory courses       551-0326-00L       6         Concept courses       551-0326-00L       6         Concept courses       551-0309-00L       6         Concept courses       551-0309-00L       6         Concept courses       551-0309-00L       6         Melecular and Structural Biology II: Molecular Machines and Cellular Assemblies       551-0327-00L/551-0307-01L       6         Machines and Cellular Assemblies       401-0449-00L       6	Cellular Biochemistry (Part I)/Cellular Biochemistry (Part II)	551-0319-00L/551-0320-00L	6
Cettular Biochemistry of Health and Disease       551-1303-00L       4         Elective compulsory courses       551-0326-00L       6         Concepts in Modern Genetics       551-0326-00L       6         Concepts in Modern Genetics       551-0326-00L       6         Concepts in Modern Genetics       551-0326-00L       6         Materical and Structural Biology II: Molecular       551-0327-00L/551-0307-01L       6         Materical and Structural Biology II: Molecular       551-0307-00L/551-0307-01L       6         Materical and Structural Biology II: Molecular       636-008-00L       6         Applied Statistical Regression       401-0649-00L       6         Cell Biology and Synthetic Biochemistry       529-073-02L       6         Computational Systems Biology       638-0007-00L       6         Computational Systems Biology (Bappelte Analyseme- transiation       529-073-02L       6         Computational Systems Biology (Bappelte Analyseme- stransiation       529-073-02L       6         And Diotogy Lecture Series II: Transcription & Processing & 551-1032-00L       4       4         Advanced Proteomics       551-0224-00L       4       4         Current Approaches in Single Cell Analysis (University of Scillogy Optical Scillogy II: Biology II: Biology II: Biology II: Biology II: Biology III: Biology III: Scillogy III: Advanced	Master courses (one of the following)		
Elective compulsory courses       Elective compulsory courses         Concept courses       551-0326-00L         Concept sin Modern Genetics       551-0309-00L         Machines and Cellular Assemblies       551-0307-00L/551-0307-01L         Machines and Cellular Assemblies       551-0307-00L         Master courses       401-0649-00L         Autum semester       401-0649-00L         Applied Statistical Regression       401-0649-00L         Eell Biophysics       227-0739-00L         Cell Biophysics       227-0739-00L         Computational Systems Biology       551-037-00L         Biomolecular Condensates       559-001-00L         Computational Systems Biology       636-0007-00L         Maderne Massenspektroskopie, gekoppette Analysenne-       529-0041-00L         Moderne Massenspektroskopie, gekoppette Analysenne-       529-0041-00L         Ana Biology Lecture Series I: Transcription & Processing & 551-1033-00L       4         Aranaed Proteomics       551-0324-00L         Current Appraches in Single Cell Analysis (University of 551-038-00L       2         Systems Biology of Metabolism       551-0324-00L         Spring semester       551-0328-00L       2         Advanced Proteomics       551-0324-00L       4         Corrent Approaches in Single	A Problem-Based Approach to Cellular Biochemistry	551-1310-00L	6
Concept courses         S51-0326-00L         C           Call Biology in Health and Disease         S51-0326-00L         C           Concepts in Modern Genetics         S51-0307-00L/551-0307-00L         S51-0307-00L/551-0307-00L           Wachines and Callutar Assemblies         S51-0307-00L         S51-0307-00L           Master courses         Autumn semester         Applied Statistical Regression         401-0649-00L         S51-0327-00L           Biotogical Engineering and Biotechnology         C36-0108-00L         S51-0327-00L         S51-0327-00L           Cell Biophysics         S27-0733-02L         S51-0327-00L	Cellular Biochemistry of Health and Disease	551-1303-00L	4
Cell Biology in Health and Disease       551-0326-00L       6         Molecular and Structural Biology I: Protein Structure and Structural Biology II: Molecular Machines and Cellular Assemblies       551-0307-00L/551-0307-01L         Machines and Cellular Assemblies       401-0649-00L       6         Master courses       401-0649-00L       6         Autumn semester       401-0649-00L       6         Applied Statistical Regression       401-0649-00L       6         Biological Engineering and Biotechnology       636-0109-00L       6         Cell Biophysis       227-0739-02L       6         Cell Biophysis       529-0733-02L       6         Computational Systems Biology       636-0007-00L       6         Moderne Massenspektroskopie, gekopette Analyseme- Inden. Chemometrie       529-0073-02L       6         RNA Biology Lecture Series I: Transcription & Processing & 551-1407-00L       4       4         Arranstation       Statistion       551-1409-00L       4         Advanced Proteomics       551-0224-00L       4         Advanced Proteomics       551-0364-00L       2         Advanced Proteomics       551-0364-00L       2         Elements of Microscopy       227-0390-00L       4         Elegigenetics       551-1140-00L       4     <	Elective compulsory courses		
Cancepts in Modern Genetics 51-0307-00L 551-0307-00L/551-0307-01L 551-0307-00L/551-0307-01L 551-0307-00L/551-0307-01L 551-0307-00L/551-0307-00L 551-0307-00L 551-	Concept courses		F
Molecular and Structural Biology I: Protein Structure and Machines and Cellular Assemblies         551-0307-00L/551-0307-01L         6           Master courses Autumn semester Autumn semester Cell Biophysics         401-0649-00L         6           Biotogical Engineering and Biotechnology         636-0108-00L         6           Cell Biophysics         227-0939-00L         6           Cell Biophysics         227-0939-00L         6           Cell Biophysics         227-0733-02L         6           Cell Biophysics         551-0357-00L         6           Computational Systems Biology         636-0007-00L         6           Mederen Massenspektroskopie, gekoppette Analysenme- Inden, Chemometrie         529-0041-00L         6           RNA Biology Lecture Series I: Transcription & Processing & Systems Biology of Metabolism         551-1407-00L         4           Advanced Proteomics         551-1033-00L         2         2           Current Approaches in Single Cell Analysis (University of Zurich)         227-0390-00L         2           Elements of Microscopy         227-0390-00L         4           Elegigenetics         551-10340-00L         4           Macronal Genomics         551-0140-00L         4           Elegigenetics         551-1040-00L         4           Evicture at Biology IV: Vi			6
Function/Molecular and Structural Biology II: Molecular Machines and Cellular Assemblies Master courses Applied Statistical Regression Stological Engineering and Biotechnology Call Biology and Synthetic Biochemistry Callular Matters: Properties, Functions and Applications of Biomolecular Condensates Chemical Biology and Synthetic Biochemistry Caputational Systems Biology Moderne Massenspektroskopie, gekoppelte Analysenme- Expenditional Systems Biology of Metabolism Spring semester Advanced Proteomics Spring semester Advanced Proteomics Spring semester Advanced Proteomics Spring semester Spring semester Advanced Proteomics Spring semester Advanced Proteomics Spring semester Spring semester Advanced Proteomics Spring semester Spring Spring			6
Autumn semester       40100000000000000000000000000000000000	Function/Molecular and Structural Biology I: Protein Structure and Machines and Cellular Assemblies	551-0307-00L/551-0307-01L	0
Applied Statistical Regression       401-0649-00L       E         Biological Engineering and Biotechnology       636-0108-00L       4         Cell Biophysics       227-0939-00L       6         Cell Biophysics       227-0939-00L       6         Cell Biophysics       227-0939-00L       6         Cell Biophysics       529-0733-02L       6         Computational Systems Biology       636-0007-00L       6         Moderne Massenspektroskopie, gekoppette Analysenme-       529-0071-00L       6         KNA Biology Lecture Series I: Transcription & Processing &       551-1407-00L       4         ArNA Biology Lecture Series II: Non-Coding RNAs: Biology       551-1409-00L       4         Advanced Proteomics       551-0224-00L       4         Current Approaches in Single Cell Analysis (University of 201-008-00L       4       4         Elements of Microscopy       227-0390-00L       4         Elements of Microscopy       227-0390-00L       4         Elements of Microscopy       551-0140-00L       4         Microbial Biochemistry       551-0140-00L       4         Microbial Biochemistry       551-0140-00L       4         Microbial Biochemistry       551-0140-00L       4         Microbial Biochemistry       551-	Master courses		
Biological Engineering and Biotechnology       636-0108-00L       2         Cell Biophysics       227-0939-00L       2         Cell Biophysics       551-0357-00L       4         Biomolecular Condensates       529-0733-02L       6         Computational Systems Biology       636-0007-00L       6         Moderne Massenspektroskopie, gekoppelte Analysenme-       529-0041-00L       6         Imanslation       51-1037-00L       4         RNA Biology Lecture Series I: Transcription & Processing & 551-1407-00L       4         Translation       551-1103-00L       4         RNA Biology Lecture Series II: Non-Coding RNAs: Biology       551-1109-00L       4         And Therapeutics       551-0224-00L       4         Systems Biology of Metabolism       551-0224-00L       4         Current Approaches in Single Cell Analysis (University of 51-0140-00L       4         Epigenetics       551-0340-00L       4         Excife Interdisciplinary Summer School on Bio-Medicat       227-0390-00L       4         Engenetics       551-1100-00L       4         Macronolecular Mechanisms       551-1102-00L       4         Macronolecular Mechanisms       551-1102-00L       4         Macronolecular Mechanisms       551-1102-00L       4 </td <td>Autumn semester</td> <td></td> <td></td>	Autumn semester		
Cell Biophysics       227-0939-00L       2         Cellular Matters: Properties, Functions and Applications of       551-0357-00L       4         Biomolecular Condensates       529-0733-02L       4         Chemical Biology and Synthetic Biochemistry       529-0733-02L       4         Computational Systems Biology       633-0007-00L       6         Moderne Massenspektroskopie, gekoppelte Analysenme-       529-0041-00L       6         Model Systems Biology Certure Series I: Transcription & Processing & 551-1407-00L       4         Translation       Spring semester       551-1153-00L       4         Advanced Proteomics       551-0124-00L       4         Current Approaches in Single Cell Analysis (University of 217-0390-00L       4       27-0390-00L       4         Elements of Microscopy       227-0390-00L       4       27-0390-00L       4         Elements of Microscopy       227-0390-00L       4       4       27-0390-00L       4         Marging       551-0140-00L       4       4       27-0390-00L       4         Marging       551-0140-00L       4       4       4       27-0390-00L       4         Marcobial Biochemistry       551-1010-00L       4       4       4       27-0390-00L       4			5
Cellular Matters: Properties, Functions and Applications of       551-0357-00L       4         Biomolecular Condensates       529-0733-02L       6         Computational Systems Biology       636-0007-00L       6         Moderne Massenspektroskopie, gekoppelte Analysenme- thoden, Chemometrie       529-0041-00L       6         RNA Biology Lecture Series I: Transcription & Processing & Translation       551-1407-00L       4         And Therapeutics       551-1153-00L       4         Systems Biology of Metabolism       551-0224-00L       4         Advanced Proteomics       551-0338-00L       2         Current Approaches in Single Cell Analysis (University of 551-0338-00L       2       2         Zurich)       Elements of Microscopy       227-0390-00L       4         Elements of Microscopy       551-0364-00L       4         Microbial Biochemistry       551-1103-00L       4         Macromolecular Mechanisms       551-1030-00L       4         Macromolecular Mechanisms       551-1030-00L       4         Macromolecular Mechanisms       551-1030-00L       4         Macromolecular Mechanisms       551-1030-00L       4         Macromolecular Mechanisms       551-1102-00L       4         Macromolecular Mechanisms       529-0079-00L			4
Biomolecular Condensates Chemical Biology and Synthetic Biochemistry 529-0733-02L Chemical Biology and Synthetic Biochemistry 529-0041-00L Computational Systems Biology Gase-0007-00L Computational Systems Biology Biology Lecture Series I: Transcription & Processing & 551-1407-00L Translation RNA Biology Lecture Series I: Transcription & Processing & 551-1407-00L And Biology Lecture Series I: Transcription & Processing & 551-1407-00L Computation Spring semester Systems Biology of Metabolism Spring semester Systems Biology of Metabolism Spring semester Current Approaches in Single Cell Analysis (University of S51-0338-00L Current Approaches in Single Cell Analysis (University of S51-0338-00L Current Approaches in Single Cell Analysis (University of S51-0338-00L Current Approaches in Single Cell Analysis (University of S51-0338-00L Current Approaches in Single Cell Analysis (University of S51-0308-00L Current Approaches in Single Cell Analysis (University of S51-0308-00L Current Approaches in Single Cell Analysis (University of S51-0308-00L Current Approaches in Single Cell Analysis (University of S51-0140-00L Elements of Microscopy 227-0390-00L Elements of Microscopy S51-0140-00L Elements of Structural Biology IV: Visualizing Macromo- S51-100-00L Macromolecular Mechanisms Wolecular and Structural Biology V: Visualizing Macromo- S51-1103-00L Macromolecular Imaging S29-0059-00L Concept courses (free choice) Master courses (free choice) Concept courses (free choice) Concept courses Concepts in Modern Genetics S51-0397-00L Concept courses Concept courses Concepts in Modern Genetics S51-0397-00L Concept courses Concept courses			6
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thoden, Chemometrie       551-1407-00L       4         RNA Biology Lecture Series I: Transcription & Processing & 551-1407-00L       4         RNA Biology Lecture Series II: Non-Coding RNAs: Biology       551-1407-00L       4         and Therapeutics       551-1153-00L       4         Systems Biology of Metabolism       551-1153-00L       4         Spring semester       551-0224-00L       4         Advanced Proteomics       551-0338-00L       2         Current Approaches in Single Cell Analysis (University of Zurich)       551-0340-00L       4         Elements of Microscopy       227-0390-00L       4         Epigenetics       551-10364-00L       2         EXCITE Interdisciplinary Summer School on Bio-Medical       227-0396-00L       4         Imactious Agents: From Molecular Biology III: Biophysical Analysis of 551-1402-00L       4       4         Molecular and Structural Biology IV: Visualizing Macromole-       551-1412-00L       4         Cueles by NRa M CEPR       551-1126-00L       4       4         Nanoscale Molecular Imaging       529-0059-00L       5       5         Soft and Living Matter Physics       402-0866-05L       6       6         Technologies in Molecular Microbiology       551-0309-00L       4       4       4 </td <td>Computational Systems Biology</td> <td></td> <td>6</td>	Computational Systems Biology		6
RNA Biology Lecture Series I: Transcription & Processing &       551-1407-00L       4         Iranslation       FNA Biology Lecture Series II: Non-Coding RNAs: Biology       551-1409-00L       4         And Therapeutics       551-1153-00L       4         Systems Biology of Metabolism       551-1023-00L       4         Spring semester       551-0224-00L       4         Advanced Proteomics       551-0338-00L       2         Current Approaches in Single Cell Analysis (University of S11-0338-00L       2       2         Zurich)       Elements of Microscopy       227-0390-00L       4         Excite Interdisciplinary Summer School on Bio-Medicat       277-0396-00L       4         Imaging       551-1010-00L       4       4         Functional Genomics       551-1010-00L       4       4         Microbial Biochemistry       551-1100-00L       4       4         Molecular and Structural Biology IV: Visualizing Macromole-       551-1412-00L       4         Molecular and Structural Biology V: Studying Macromole-       551-1142-00L       4         Cules by NMR and EPR       529-0059-00L       551-1142-00L       4         Nanoscale Molecular Imaging       529-0059-00L       551-1142-00L       4         Elective courses (free choice)       <		529-0041-00L	6
RNA Biology Lecture Series II: Non-Coding RNAs: Biology       551-1409-00L       4         and Therapeutics       551-1153-00L       4         Systems Biology of Metabolism       551-1153-00L       4         Spring semester       551-0224-00L       4         Advanced Proteomics       551-038-00L       2         Current Approaches in Single Cell Anatysis (University of Zurich)       551-0140-00L       4         Elements of Microscopy       227-0390-00L       4         Excite Interdisciplinary Summer School on Bio-Medical Imaging       551-0140-00L       4         Maging       551-10364-00L       3       4         Microbial Biochemistry       551-10364-00L       4       4         Microbial Biochemistry       551-1103-00L       4       4         Molecular and Structural Biology III: Biophysical Analysis of       551-1402-00L       4         Molecular and Structural Biology IV: Visualizing Macromole-       551-1412-00L       4         Cules by NMR and EPR       551-1414-00L       4       4         Nanoscale Molecular Imaging       529-0059-00L       551-1126-00L       4         Elective courses (free choice)       551-0309-00L       551-0309-00L       551-0309-00L       4         Master courses       551-0309-00L	RNA Biology Lecture Series I: Transcription & Processing &	551-1407-00L	4
Systems Biology of Metabolism       551-1153-00L       4         Spring semester       Advanced Proteomics       551-0224-00L       4         Current Approaches in Single Cell Analysis (University of Zurich)       551-0338-00L       2         Zurrent Approaches in Single Cell Analysis (University of Zurich)       227-0390-00L       4         Elements of Microscopy       227-0390-00L       4         Epigenetics       551-0140-00L       4         Maging       227-0396-00L       4         Functional Genomics       551-0364-00L       3         Infectious Agents: From Molecular Biology to Disease       551-1100-00L       4         Microbial Biochemistry       551-1103-00L       4         Molecular and Structural Biology IV: Visualizing Macromole-       551-1402-00L       4         Molecular and Structural Biology V: Studying Macromole-       551-1414-00L       4         Cueles by X-Ray Crystallography and EM       551-1414-00L       4       4         Nanoscale Molecular Imaging       529-0059-00L       3       3         Soft and Living Matter Physics       402-086-05L       4       4         Elective courses (free choice)       551-00L       4       4         Writing Scientific Writing for Life Sciences and Chemistry       529-0079-00L	RNA Biology Lecture Series II: Non-Coding RNAs: Biology	551-1409-00L	4
Spring semester       Advanced Proteomics       551-0224-00L       4         Current Approaches in Single Cell Analysis (University of Zurich)       551-0338-00L       2         Elements of Microscopy       227-0390-00L       4         Epigenetics       551-0140-00L       4         EXCITE Interdisciptinary Summer School on Bio-Medical       227-0396-00L       4         Marging       551-1103-00L       4         Functional Genomics       551-10364-00L       3         Functional Genomics       551-1103-00L       4         Microbial Biochemistry       551-1103-00L       4         Molecular and Structural Biology IV: Visualizing Macromolecular Mechanisms       551-1402-00L       4         Molecular and Structural Biology IV: Studying Macromolecules by X-Ray Crystallography and EM       551-1412-00L       4         Molecular and Structural Biology V: Studying Macromolecules by NRM and EPR       551-1126-00L       4         Nanoscale Molecular Imaging       529-0059-00L       3       3         Soft and Living Matter Physics       402-0866-05L       4       4         Elective courses (free choice)       4       551-0126-00L       4         Master courses       551-0309-00L       3       3         Concepts in Molecular Microbiology       551-037		551-1153-00L	4
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Current Approaches in Single Cell Analysis (University of Zurich)       551-0338-00L       2         Elements of Microscopy       227-0390-00L       4         Epigenetics       551-0140-00L       4         EXCITE Interdisciplinary Summer School on Bio-Medical Maging       227-0396-00L       4         Functional Genomics       551-0364-00L       3         Infectious Agents: From Molecular Biology to Disease       551-1100-00L       4         Microbial Biochemistry       551-103-00L       4         Molecular and Structural Biology IV: Visualizing Macromolecular Mechanisms       551-11402-00L       4         Molecular and Structural Biology V: Studying Macromolecular Molecular Imaging       529-0059-00L       3         Nanoscale Molecular Imaging       529-0059-00L       3         Soft and Living Matter Physics       402-0866-05L       4         Elective courses (free choice)       4       4         Master courses       551-00L       4         Scientific writing for Life Sciences and Chemistry       529-0079-00L       1         Writing Scientific Writing for Life Sciences and Chemistry       529-0079-00L       1         Writing Scientific writing courses       551-0309-00L       2         Concepts in Modern Genetics       551-0307-00L/551-0318-00L       6      <		551 022/ 001	
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## About this major

The Master programme in Biochemistry aims at the development of advanced, research-oriented theoretical and practical skills in cellular biochemistry in a communicative, interdiscplinary research environment. The training focuses on the molecular mechanisms and concepts underlying the biochemistry of cellular physiology, and associated pathologies such as cancer. We put particular emphasis on the question of how these processes are integrated to carry out complex, highly coordinated cellular functions. The investigation and understanding of processes such as intracellular transport, cytoskeletal regulation, cell polarity, cell motility, cell division and cell growth requires a combination of approaches like classical biochemistry and molecular biology, but also cell biology, genetics, live cell imaging and quantitative data analysis.

The successful completion of the Master programme in Biochemistry prepares the student for a professional career in scientific research areas concerned with biological questions on the molecular and cellular level. It provides a solid scientific background for further academic studies towards a PhD followed by postdoctoral training, but also provides the Master graduates with a scientific profile desired for competitive positions in biotechnology, clinical chemistry, and the chemical, biomedical and pharmaceutical industry.

## Study advisor



Dr. Alicia Smith ETH Zurich, Hönggerberg Campus HPM G17.1 8093 Zurich

**Elective courses in Humanities, Social or Political Sciences** (min. 2 CP)

## Tel.: +41 44 632 31 37 alicia.smith@bc.biol.ethz.ch

