SPACE FOR MOLECULAR BIOLOGY.

Master’s Degree Program/Joint Degree Program
The Master’s degree in Molecular Biology is a joint interdisciplinary program offered by the JKU Linz and the University of Salzburg. It expands upon the general education base acquired during Bachelor studies in natural sciences and provides in-depth study in biochemistry, organic chemistry, biophysics, bioanalytics, structural biology, genetics, cell biology, system biology, and molecular biotechnology. The curriculum focuses on student-centered learning; it utilizes state-of-the-art equipment and trains students in advanced research methods that assist them in acquiring a deeper understanding of life science fields such as molecular biology, cell biology and biotechnology.

**To the Point**

**THERESA ZACHERL BSc**  
MSc Student, Student Representative in Molecular Biology

‘After having completed my broad-based undergraduate degree, the joint Master’s degree program will prepare me to specialize in my field of interest. I can choose from a wide range of subjects offered by two universities. I especially value the hands-on experience that will teach me the skills I need in real-world work situations!’

**ELISABETH PALZENBERGER BSc**  
MSc Graduate in Molecular Biology

‘The Bachelor’s degree program in Molecular Biosciences combines biology, physics, chemistry, and mathematics and these subjects are extremely interesting to me. The joint Master's degree program in Molecular Biology expands on these subjects, providing me with in-depth studies of interdisciplinary subjects as well as opportunities to specialize and diversify.’

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**YOUR BENEFITS**

- Individual specialization
- Focus on applied learning
- Expertise from two respected universities
- Opportunity for independent research on complex molecular and biomedical topics
- Attain high level skills to pursue a career in Austria or abroad
Educational Objectives

Graduates of the joint Master’s degree program in Molecular Biology are highly qualified to pursue excellent employment opportunities in Austria or abroad in the field of molecular biology, cell biology, and biotechnology, both in academia or in industry. Graduates possess high-level skills such as:

- Expert knowledge in molecular and cellular interdependency at all levels of biological interaction, primarily in networks on the genetic, protein, organelle, and tissue-forming cell level and within various model systems.
- Expertise in theory and practice of methodological techniques to analyze complex molecular and cellular processes in healthy, genetically, or chemically modified cells, tissues, or organisms.
- Ability to work autonomously as well as incorporate new experimental designs under supervision.

Job Opportunities

- Academic careers that include fundamental research at international universities, Austrian universities of applied sciences or private universities as well as at other public or private research facilities
- Conduct research or pursue a career in the pharmaceutical industry or at clinical or medical facilities
- Product management or marketing of chemical, pharmaceutical, or biotechnological products
- Development, quality control, and production jobs at pharmaceutical and bio-pharmaceutical plants
- Work at molecular biology laboratories, chemical analysis laboratories, clinical laboratories and in the fields of bioanalytics or environmental analytics
- Work in public administration and testing laboratories in the chemical, environmental, and medical sector
- Employment in the field of medical and health care prevention at public and private institutions
- Conduct risk assessment and design risk minimization procedures at public authority offices or at chemical/pharmaceutical/biotechnological companies
- Work in the field of trademark registration and product protection or manage patent affairs at companies or at public institutions
Subject Areas

As part of the Master’s degree program, students are required to complete courses totaling 120 ECTS credits in the following areas:

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<th>Linz</th>
<th>Linz Salzburg</th>
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<tbody>
<tr>
<td>Molecular Cell Biology and Genetics</td>
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<td>Biophysics and Molecular Analytics</td>
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<td>Molecular Analysis of Cellular Pathways</td>
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<td>Advanced Analysis and Biotechnologies for Biosystems</td>
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<td>Soft Skills</td>
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<td>Advanced Molecular Biology</td>
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<td>Autonomous Coursework/Free Electives</td>
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<tr>
<td>Practical Training in Molecular Biology Research</td>
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<td>Master’s Thesis Seminar and Master’s Thesis</td>
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<td>Master’s Degree Examination by Commission</td>
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See: jku.at/studienrichtung, the curriculum, or visit the Student Information and Advising Services (SIBS) for detailed information.

Additional Information

- Admission requirements to the Master’s degree program: Bachelor’s degree ‘Molekular Biowissenschaften’ JKU or a program equivalent in content and scope.

- Students can apply for admission to the joint Master’s degree program in Molecular Biology at both the University of Salzburg and the Johannes Kepler University Linz.

See: jku.at/studienrichtung or contact the Admissions Office for information about admission requirements.

JKU Post Graduate Degree Programs

- Doctorate Degree in Natural Sciences
General Information

STUDENT INFORMATION AND ADVISING SERVICES (SIBS)
Lecture Tract, Hall A
+43 732 2468 3450
studium@jku.at
jku.at/sibs

AUSTRIAN STUDENT UNION LINZ – OFFICE OF ACADEMIC ADVISING
Main Campus Library (ground floor) and the Lecture Tract
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studienberatung@oeh.jku.at
oeh.jku.at

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