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## **Application Form**

### **Master of Science in Genetics and Biology of Aging and Regeneration, University of Cologne**

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#### Personal Data

|               |                           |
|---------------|---------------------------|
| Last Name     | First Name                |
| Date of Birth | City and Country of Birth |
| Gender        | Nationality               |

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#### Address

|                                                               |                                           |
|---------------------------------------------------------------|-------------------------------------------|
| Email (Important for being contacted! Please carefully check) | Phone Number                              |
| Street and Number                                             | additional address details, if applicable |
| ZIP code                                                      | City                                      |
| Country                                                       |                                           |

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#### Bachelor degree

or equivalent

Degree, as given on the certificate and diploma; with specialization, if applicable

Title of Bachelor Thesis (or research project)

University, City, Country

OR

Graduation Date

Final Grade (as certified)

Expected graduation date

Preliminary Grade (as certified)

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#### Additional Degree(s)

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#### University Entrance Qualification/ High School leaving certificate

School

City / Country

Date

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#### Proficiency in English

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**Description of the study content of the bachelor's (or equivalent) degree and information on additional qualifications, if applicable.**

Required for admission to the M.Sc. in Genetics and Biology of Aging and Regeneration are:

- (1) At least 40 ECTS credit points of courses in Biochemistry, Developmental /Regenerative Biology, Genetics, Immunology, and Molecular Biology or Cell Biology. At least 3 of these study areas have to be represented.
- (2) At least 35 additional ECTS credit points from the following study areas: Biochemistry, Bioinformatics /Biomathematics / Computational Biology, Biophysics, Botany / Plant Science, Cell Biology, Developmental / Regenerative Biology, Genetics, Immunology, Microbiology, Molecular Biology, Neurobiology / Neuroscience and Physiology and Zoology. At least 3 of these study areas have to be represented.
- (3) Out of those at least 30 ECTS credit points in a practical / experimental field of the study areas Biochemistry, Cell Biology, Developmental / Regenerative Biology, Genetics, Immunology, Microbiology, Molecular Biology and / or Neurobiology.
- (4) At least 5 additional ECTS credit points in fundamentals of Mathematics, Statistics and or Physics
- (5) At least 12 additional ECTS credit points in fundamentals of Inorganic Chemistry, Organic Chemistry, Physical and / or Theoretical Chemistry.

*(Note: 1 ECTS credit point corresponds to 30 h total workload. One year of a full-time study program corresponds to 60 ECTS credit points.)*

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**Every Applicant**, with the exception of applicants who have completed or will complete a Bachelor of Science in Biology, Biochemistry or Applied Biology in Germany, must provide the following information:

Specify all courses that include practical / hands-on training in study areas of Biochemistry, Cell Biology, Developmental / Regenerative Biology, Genetics, Immunology, Microbiology, Molecular Biology and / or Neurobiology

Please list (a) the topic, (b) the time frame (how many hours per week, how many weeks), (c) the techniques you have applied (e.g. microscopy, western blot, electrophysiological recordings etc.)

Required is the equivalent of 30 ECTS credit points of practical (hands-on) training , which corresponds to ~5 months of a full time study program, 900 hours total workload.

**Only applicants who submit certificates and transcripts that do not specify ECTS credit points need to provide the following information:**

List the courses in the field of Biology that are equivalent to 75 ECTS credit points and specify the study area as listed above

(75 ECTS credit points are equivalent to 2,5 terms of a full-time study program, 2.250 hours total workload):

List additional courses in Mathematics, Statistics and / or Physics that are equivalent to 5 ECTS credit points

5 ECTS credit points are equivalent to ~1 month of a full time study program, 150 hours workload.

List additional courses in Inorganic Chemistry, Organic Chemistry, Physical and / or Theoretical Chemistry that are equivalent to 12 ECTS credit points

12 ECTS credit points are equivalent to ~2 month of a full time study program, 360 hours workload.

Use this space for additional general comments (not required):