

Research Diversity in Natural Sciences at the University of Cologne

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科隆城市概況

- 公元前已有科隆有關的記載，最初為羅馬軍隊駐地，公元50年建城。現已發展成為德國第四大城市
- 坐落於萊茵河畔，是北萊茵-威斯特法倫州（北威州）的經濟中心，居民人數超過100萬(其中學生約90,000)
- 世界文化遺產-科隆大教堂、科隆香水、Kölsch啤酒、狂歡節.....



科隆城市概況

- 文化之城:歌劇院, 戲劇院,博物館, 現代藝術博覽會.....
- 媒體之城: WDR, Super RTL, VOX, 近1/3的電視節目是在科隆地區制作完成
- 會展之城: 每年舉行40多個展會
- 德國第三大教育和科研之地:17所高等教育機構
- 科研: 除了科隆大學以外,還有4所Max-Planck研究所,德國航空航天中心, Jülich研究中心, Fraunhofer基金會等



歷史悠久的科隆大學

- 建於1388年,由市民興建的城市學院,是德國第二古老的大學。
- 1798年被停學,於1919年在科隆商業和社會管理研究所及醫學院的基礎之上重建。
- 現今是德國最大的大學之壹,擁有近50,000名註冊學生(外國學生人數約5000人), 534名教授, 5174多名教研人員, 年預算額超過5億歐元。每年接待260多國際學者訪問 以及近1000名學生交換學習。
- 學校共有六個學院



經濟、管理與社會科學學院

法學院

醫學院

人文學院

數學與自然科學院

人類科學學院



科研

- 是2013年成立的German U15大學聯盟成員
- 2012年成為德國11所精英大學之壹: 5年共獲得近1億1千萬歐元資助
- 其他第三方資金資助快速增長

重點學科

領先科研領域

老齡化疾病研究



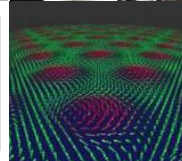
老齡化和人口結構變化

行為經濟工程學與社會
認
知學



社會與經濟行為研究

量子物質與材料



復雜系統的定量模型

南半球社會經濟、文化
及
政治的變革



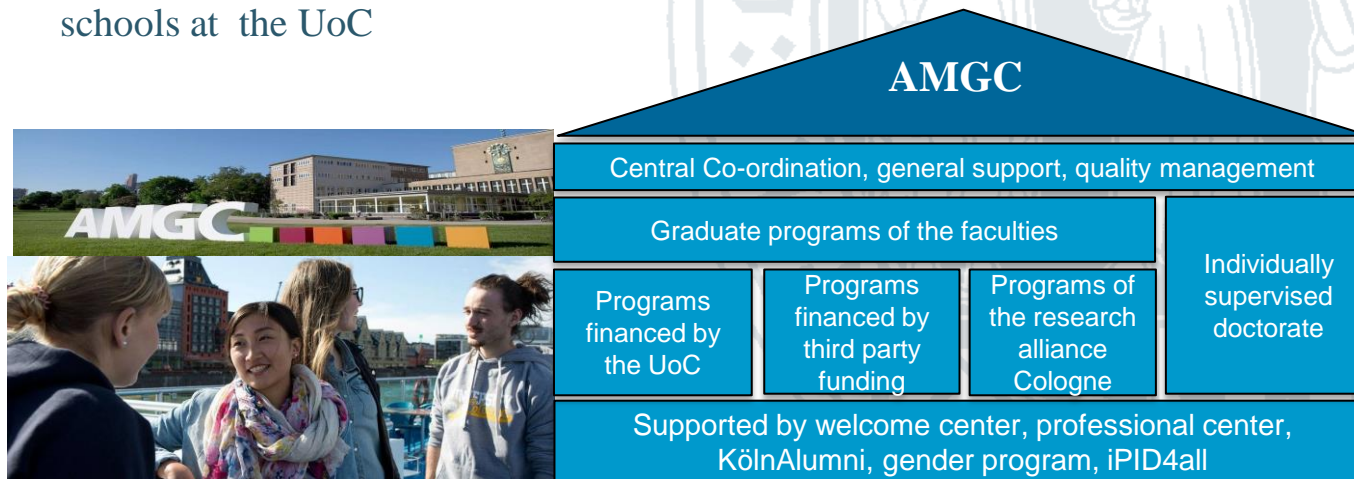
文化與社會轉型



在科隆大學進行科研

- 傳統導師制博士科研
- 結構制博士項目

Albertus Magnus Graduate Center: Roof organization for all doctoral programs & graduate schools at the UoC



- Central contact for everyone interested in pursuing a doctorate
- Program for all doctoral candidates of the UoC
- Training tailored for doctoral candidates of the UoC
- Counseling and advice
- General quality standards for doctorates
- Monitoring and data capture
- Setting up enrolment software
- Events for networking across faculties
- Raising grants like iPID4all from the DAAD



Support of young researchers at the University of Cologne

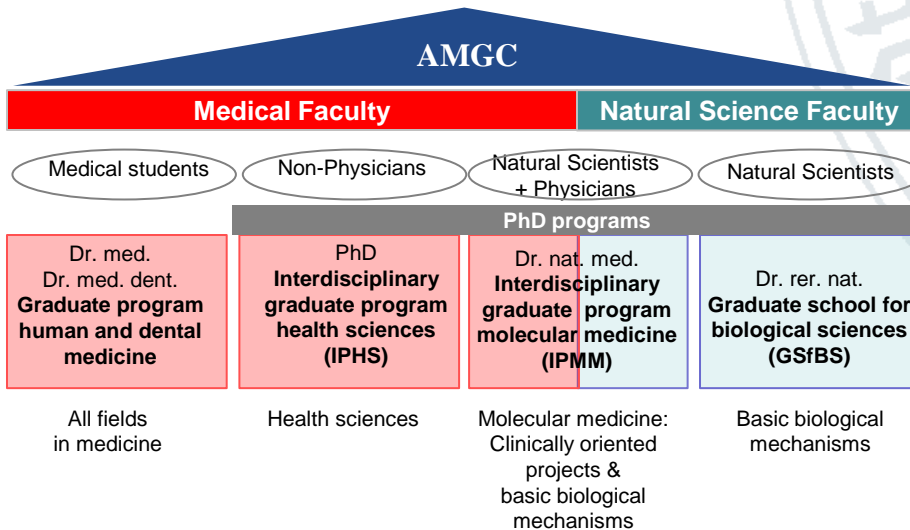
Doctoral and Postdoc Programs of the Medical and the Mathematics and Natural Science Faculties

- High-quality scientific training of undergraduate students and early stage researchers is a major goal of the medical and natural science faculties.
- Several graduate programs have been developed and integrated into the university-wide Albertus Magnus Graduate Centre (AMGC) directed to young investigators who intend to pursue biomedical research as a component of their career.
- To promote postdocs the UoC offers a range of measures including grants, workshops and career development opportunities tailored for this career level

Graduate programs of MF and MNSF

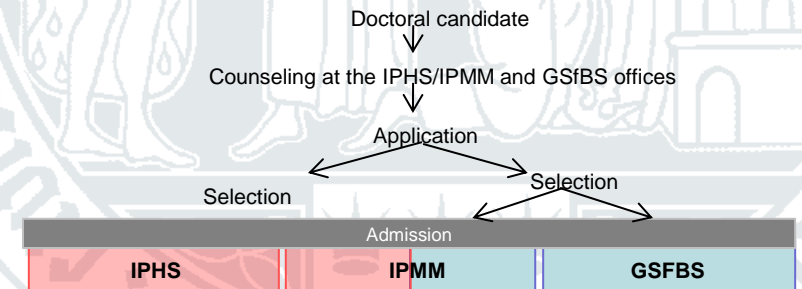
STRUCTURE

Depending on the individual academic degree and research interest young investigators have different possibilities:



PHD PROGRAMS

Depending on the individual academic degree and research interest young investigators have different possibilities:



- | | | |
|---|--|---|
| <ul style="list-style-type: none"> • Recent program in the MF • Aims at students with research themes related to health sciences • Title awarded: PhD • 21 doctoral candidates since 2013 | <ul style="list-style-type: none"> • Joint program of both faculties • Aims at students of both faculties that pursue doctoral level studies in the area of molecular medicine • Title awarded: Dr. nat. med., (equivalent to a PhD or the Dr. rer. nat.) • 39 doctoral candidates since 2005, among which 10 were medically trained | <ul style="list-style-type: none"> • Aims to natural scientists with projects in the area of basic biological sciences • Title awarded: Dr. rer. nat. • 330 doctoral candidates currently enrolled |
|---|--|---|



Support of young researchers at the University of Cologne

Doctoral and Postdoc Programs of the Medical and the Mathematics and Natural Science Faculties

Support for Postdocs

The UoC Concept for the Future offers Funding for Postdocs and independent Junior Researchers

• 20 UoC Postdoc Grants

- open to all postdoctoral research associates
- awarded to those with demonstrated academic excellence whose doctorate has been completed in the preceding two years
- funded with up to € 30,000 p.a. for two years.

• 10 UoC Advanced Postdoc Grants

- Open to all junior research group leaders of the natural science area in Cologne
- Awarded to those who fulfil the criteria of excellent research
- funded with up to € 60,000 p.a. for three years.

Faculty and Academic Staff Development (PE Wiss) offers for postdocs

- custom-tailored staff development
- planning and realization of individual career paths
- development of interdisciplinary competencies for excellent research and teaching
- preparation for leadership and management tasks in academic and non-academic settings
- support for academic and social networking
- Individual or group coaching
- [PostDoc.Excellent@UzK](#) is to record people's actual needs and in turn create further training offers that take these specific needs into account
- Postdocs Network meetings

The GSfBS offers Workshops open for young Postdocs

Stats Literacy
Data Analysis
Data Visualisation
Bioinformatics
Skills for project managers
Conflict management



Albertus Magnus Graduate Center: <http://amgc.uni-koeln.de/>

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