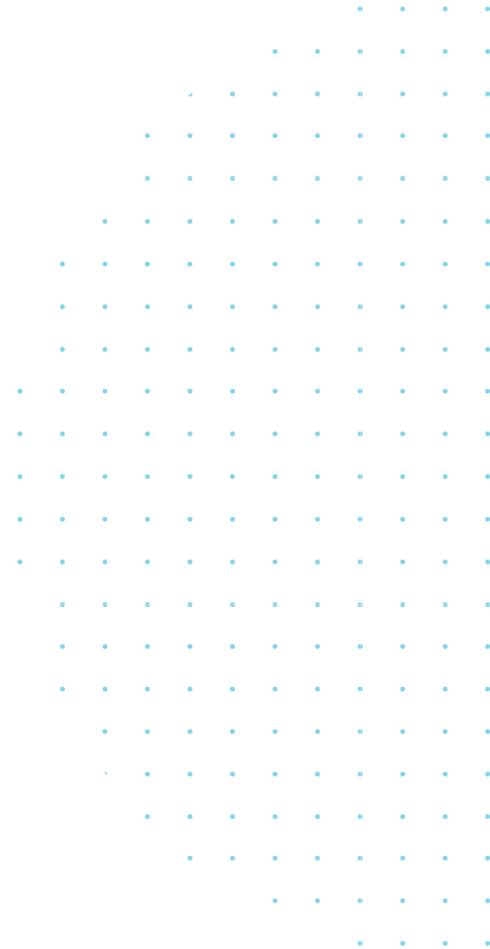
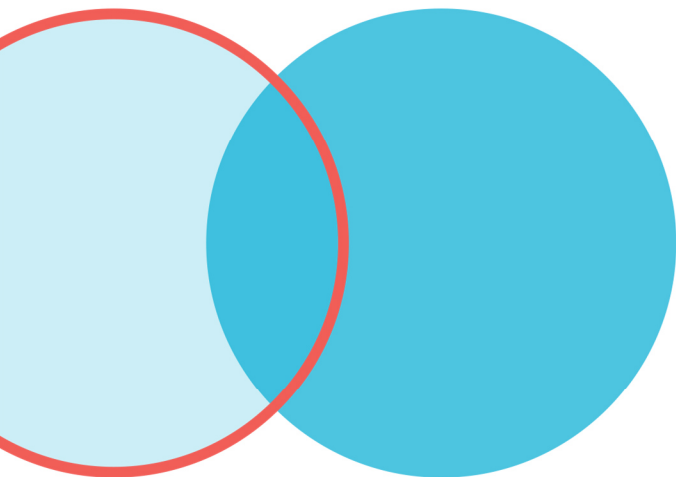




UNIVERSITÄT
ZU KÖLN

INTERNATIONAL MAX PLANCK RESEARCH SCHOOLS

Annual Report 2023





UNIVERSITÄT
ZU KÖLN

Vice-Rectorate for Academic Career
and Staff Development

Anna Keller

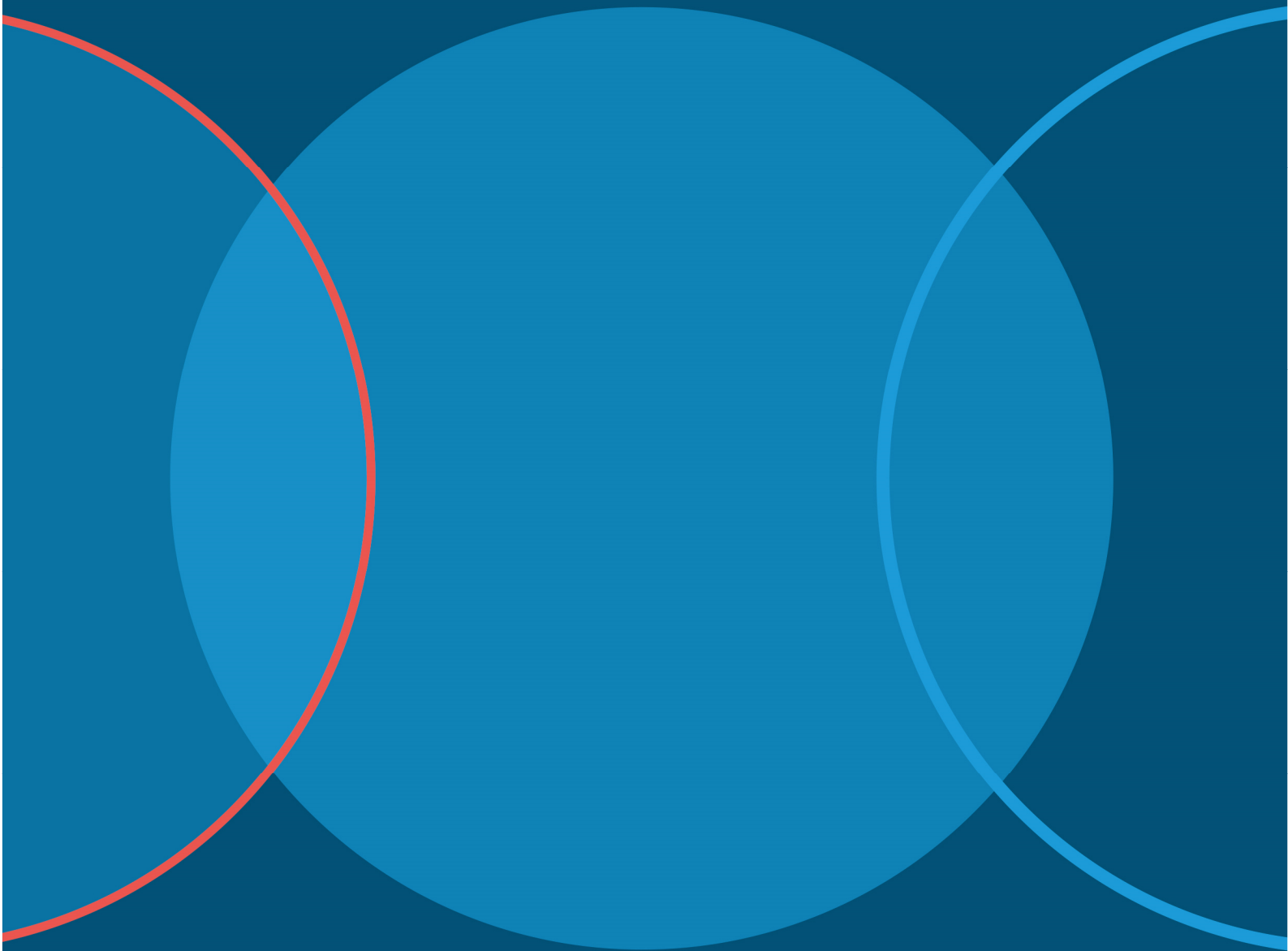
E-Mail: a.keller@verw.uni-koeln.de

Phone: +49 221 470-2817

INHALT

INTERNATIONAL MAX PLANCK RESEARCH SCHOOLS	1
FOREWORD	5
	6
1. STRUCTURES	7
1.1 IMPRS on Ageing	8
KEY FACTS	9
1.2 IMPRS on the social and political constitution of the Economy (SPCE)	10
KEY FACTS	11
1.3 IMPRS ON UNDERSTANDING COMPLEX PLANT TRAITS USING COMPUTATIONAL AND EVOLUTIONARY APPROACHES	12
KEY FACTS	13
1.4 IMPRS on Behaviorally Smart Institutions (BeSmart)	14
KEY FACTS	15
1.5 IMPRS for Astronomy & Astrophysics	16
KEY FACTS	17
2. ACTIVITIES 2023	19

FOREWORD



FOREWORD

Dear readers,

It is my great pleasure to present the annual International Max Planck Research School (IMPRS) report for the year 2023.

The University of Cologne (UoC) takes great pride in its strong alliance with the Max Planck Institutes (MPIs), which is exemplified by the presence of five IMPRS on our campus. These IMPRS programs offer cutting-edge graduate education and provide a fertile ground for the development of young scientific talents in a wide range of disciplines, including, Life Sciences, Social Sciences, Biology, Economics as well as Astronomy and Astrophysics.



The partnerships between UoC and the Max Planck Society foster synergetic relationships, promote the exchange of knowledge and resources, and enable us to tackle complex research questions collaboratively. They also connect with Clusters of Excellence and other research initiatives and thus equip the next generation of researchers with the skills, knowledge, and experiences necessary to excel in their respective fields.

In 2023, the employment conditions for the IMPRS doctoral candidates funded by the University of Cologne were aligned with the Max Planck funding contracts. The switch from scholarships to the award of 65% TV-L E13 employment contracts includes financial and insurance benefits and contributes to a more uniform payment of doctoral candidates within the Max Planck Institutes. The University of Cologne has increased its annual contribution, in part massively, to enable the establishment of in total two 65% TV-L E13 contracts.

The UoC is not least with regard to the application for the Excellence Strategy dedicated to fostering an environment of excellence and innovation, and our collaboration with the MPIs plays a pivotal role in achieving this goal. As we move forward, we remain committed to strengthening these collaborative ties, fostering an atmosphere of interdisciplinary research, and furthering the frontiers of knowledge. Together, the University of Cologne and the Max Planck Institutes will continue to strive for excellence, pushing the boundaries of scientific exploration and making a lasting impact on society.

We extend our gratitude to all researchers, faculty members, and staff involved in these collaborations, whose dedication and passion have contributed to our collective success.

Yours sincerely,

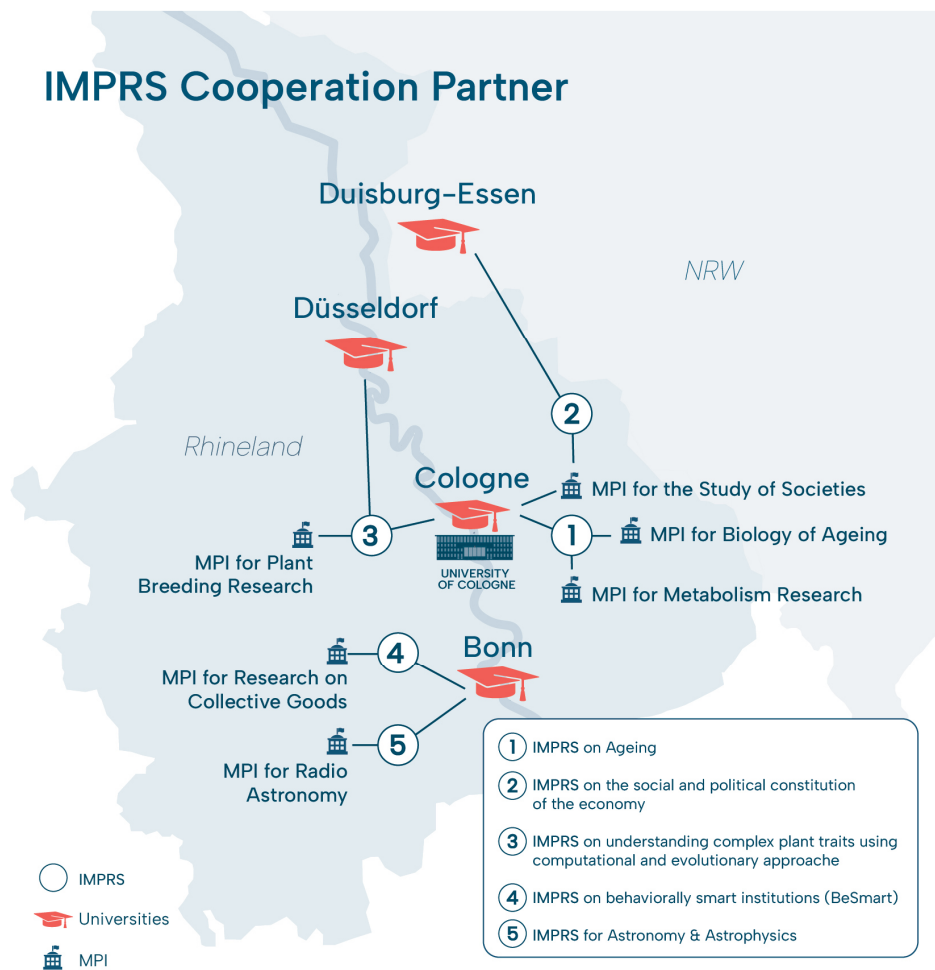
*Prof. Ines Neundorf,
Vice-Rector for Academic Career and Staff Development
University of Cologne*

STRUCTURES



01

1. STRUCTURES



1.1 IMPRS ON AGEING



Overview

The International Max Planck Research School on Ageing (IMPRS on Ageing) was founded in 2010 in close collaboration between the MPI of Biology of Ageing (MPI AGE) and the MPI for Metabolism Research (MPI MR) and the Faculties of Mathematics and Natural Sciences and Medicine of the University of Cologne (UoC). Since then, the mission of the IMPRS has been to train a new generation of biomedical scientists, who are dedicated to unravelling the molecular mechanisms underlying ageing and age-related diseases. This endeavour takes place at the interface of many biomedical disciplines including cell biology, biochemistry, genetics and epigenetics, neurobiology, evolutionary biology, computational biology, and translational medicine. It requires an interdisciplinary approach, which is facilitated by the diverse backgrounds of the faculty and students involved. Researchers use a wide range of state-of-the-art methods and technologies as well as various model organisms to decipher the complex molecular mechanisms underlying ageing.

In 2013, the IMPRS on Ageing merged with the already existing graduate school of the Cologne Cluster of Excellence in Cellular Stress Responses in Aging-Associated Diseases (CECAD). This joint venture called the Cologne Graduate School of Ageing Research (CGA) has since then annually recruited up to 12 PhD students from up to 960 applications p.a. In June 2023, the IMPRS on Ageing submitted a proposal for the establishment of a permanent IMPRS from 2025. In December 2023, the IMPRS received a very positive evaluation report and the approval of the permanent IMPRS by the Max Planck Society (MPG).

In addition to the PhD programme, another important aspect of the IMPRS on Ageing is the CGA Master Fellowship Programme, which was successfully launched in 2019 to attract students interested in ageing research already at Master's level. From October 2019, up to 6 Master Fellows have been recruited annually from around the world to undertake MSc studies in the Biological Sciences or Biochemistry programmes at the UoC. As of December 2023, the CGA has a recruiting faculty of 46 Principal Investigators and has successfully recruited 119 excellent PhD students and 24 Master fellowship holders from all over the world since 2013. Major events in 2023, besides the successful evaluation of the IMPRS, were the 11th CGA Graduate Symposium and the CECAD PhD and Postdoc Retreat.

Some unique features of the IMPRS are the excellent scientific and administrative collaboration between the MPIS and the CECAD, the integration of Masters students as part of the Master Fellowship Programme, and the well-established feedback and evaluation culture that leads to continuous improvement of the programme.

Local integration and joint activities

The IMPRS on Ageing (and the CGA) is locally well connected with the Graduate School for Biological Sciences (GSfBS) at the Biology Department of the UoC and the Albertus Magnus Center (AMC) at the university level and all three CGA partner institutes (MPI AGE, MPI MR and CECAD) are embedded in the Faculties for Mathematics and Natural Sciences as well as for Medicine of the UoC. The CGA and its partner institutes collaborate with various other graduate programmes at the Cologne bioscience campus, including the IMPRS Plant Traits, the RTG2550 on the "Dynamic Regulation of Cellular Protein Localization" (reloc), the Integrated Research Training Group of the CRC 1218 in "Mitochondrial Regulation of Cellular Function" (mito-RTG) or the

Integrated Research Training Group of the CRC 1403 "Cell Death in Immunity, Inflammation and Disease" (Cell Death RTG). In terms of exchanging infrastructures and commonly used facilities, the core facilities of the CGA partner institutes provide complementing instrumentation and techniques that are often used by scientists of the surrounding institutes. All faculty members at the three partner institutes contribute to teaching at the CGA PhD programme, participate in Thesis Advisory Committees (TACs) and other committees and organise common events such as seminar series and scientific meetings. Several groups of our partner institutes collaborate in interdisciplinary scientific projects resulting in various joint publications.

KEY FACTS

<i>Established in</i>	<i>2010 as IMPRS on Ageing, 2013 as joined venture with the CECAD Graduate School: Cologne Graduate School of Ageing Research (CGA)</i>
<i>Current UoC Funding Period</i>	<i>2021-2024</i>
<i>Speaker of IMPRS</i>	<i>Prof. Dr. Thomas Langer</i>
<i>Collaborating Universities</i>	<i>University of Cologne</i>
<i>Collaborating MPIs</i>	<i>Max Planck Institute for Biology of Ageing, Max Planck Institute for Metabolism Research</i>
<i>Other collaboration partners</i>	<i>Graduate School of the Cluster of Excellence in Cellular Stress Responses in Aging-Associated Diseases (CECAD)</i>
<i>UoC Key Profile Area</i>	<i>Aging-Associated Diseases</i>
<i>UoC Faculty</i>	<i>Medical Faculty and Faculty of Mathematics and Natural Sciences</i>
<i>Departmental umbrella schools</i>	<i>Graduate School for Biological Sciences (GSfBS), Interdisciplinary Program Molecular Medicine (IPMM)</i>
<i>Website of the IMPRS</i>	<i>www.ageing-grad-school.de</i>

Contact Information

*Dr. Daniela Morick
 daniela.morick@age.mpg.de
 0221/37970-304*



1.2 IMPRS ON THE SOCIAL AND POLITICAL CONSTITUTION OF THE ECONOMY (SPCE)



Overview

The International Max Planck Research School on the Social and Political Constitution of the Economy (IMPRS–SPCE) is a unique international three-and-a-half-year doctoral program in the fields of economic sociology and political economy that is offered jointly by the Max Planck Institute for the Study of Societies (MPIfG), the University of Cologne's Faculty of Management, Economics and Social Sciences, and the Faculty of Social Sciences at the University of Duisburg–Essen. The school was founded in 2007.

Research at the IMPRS–SPCE focuses on the crucial intersection between the economy, politics, and society. Our doctoral researchers work with renowned faculty from some of Germany's most prestigious research institutions and develop new approaches in economic sociology, comparative and international political economy. Students at the IMPRS–SPCE can complete part of their studies at one of our five partner universities in Denmark, France, Italy, or the United States, or another academic institution abroad. Our international exchange program gives junior researchers the opportunity to benefit from meeting and working with some of the most distinguished scholars in their fields. A special highlight is the International Max Planck Summer Conference on Economy, Politics and Society, where selected third year students have the chance to discuss their work with leading senior scholars in their field as well as with doctoral researchers from the IMPRS' partner universities worldwide.

Doctoral researchers who submit an excellent dissertation after 42 months qualify for a six months wrap-up postdoctoral fellowship/contract. This gives them time to prepare the publication of their dissertation and to apply for postdoctoral positions.

Major events in 2023 included the "First Year Paper Workshop", a poster presentation of IMPRS projects during the Scientific Advisory Board, the annual Summer Conference on Economy and Society in Chicago, the annual Graduate Retreat, and preparations for the bi-annual PhD Conference.

Local integration and joint activities

The MPIfG researchers on the IMPRS–SPCE faculty are also members of the Faculty of Management, Economics and Social Sciences at the UoC, or they have been granted the right to serve as primary dissertation advisors and give grades for dissertations and defenses as MPIfG research group leaders. MPIfG-director Jens Beckert is also a member of the Faculty of Arts and Humanities at the UoC. The Liaison Chair (Brückenprofessur) of International Comparative Political Economy and Economic Sociology created by the University of Cologne in cooperation with the Institute in 2011 serves to connect the two institutions as well. Christine Trampusch has held this chair since its inception.

Coursework at the beginning and systematic exposure to an international research environment are key elements of the IMPRS–SPCE program. In the first phase of the program, there is a strong emphasis on improving methodological skills and deepening knowledge in economic sociology and political economy. Doctoral students enrolled at the UoC choose therefore courses offered under the umbrella of the Cologne Graduate School (CGS) in Management, Economics, and Social Sciences at UoC. The "IMPRS Faculty & Student Workshop" serves as an opportunity to discuss cross-cutting themes within the doctoral school and to identify connections between projects of the MPI and both university partners.

KEY FACTS

<i>Established in</i>	<i>2007</i>
<i>Current UoC Funding Period</i>	<i>until 2025</i>
<i>Speaker of IMPRS</i>	<i>Prof. Dr. Lucio Baccaro (MPIfG directors Lucio Baccaro and Jens Beckert alternate every two years)</i>
<i>Collaborating Universities</i>	<i>University of Cologne, University of Duisburg-Essen</i>
<i>Collaborating MPIs</i>	<i>Max Planck Institute for the Study of Societies</i>
<i>Other collaboration partners</i>	<i>Brown University, Columbia University, Central European University, Copenhagen Business School, European University Institute, Sciences Po, Northwestern University, UC Berkeley and UC San Diego</i>
<i>UoC Key Profile Area</i>	<i>Social and Economic Behavior</i>
<i>UoC Faculty</i>	<i>Faculty of Management, Economics and Social Sciences</i>
<i>Departmental umbrella schools</i>	<i>Cologne Graduate School (CGS) in Management, Economics, and Social Sciences at UoC</i>
<i>Website of the IMPRS</i>	<i>https://imprs.mpifg.de/</i>

Contact Information

*Dr. Gudrun Löhner
 gudrun.loehrer@mpifg.de
 0221/2767-254*



1.3 IMPRS ON UNDERSTANDING COMPLEX PLANT TRAITS USING COMPUTATIONAL AND EVOLUTIONARY APPROACHES

INTERNATIONAL MAX PLANCK RESEARCH SCHOOL
ON UNDERSTANDING COMPLEX PLANT TRAITS USING
COMPUTATIONAL AND EVOLUTIONARY APPROACHES



Overview

The IMPRS on "Understanding Complex Plant Traits using Computational and Evolutionary Approaches" was founded in 2001 as a collaboration between the Max-Planck Institute for Plant Breeding Research (MIPZ) and the Institute of Plant Sciences within the Faculty of Mathematics and Natural Sciences at the University of Cologne. It has been continuously funded by the Max Planck Society and the University of Cologne since its foundation. The program aims to understand the regulatory principles and molecular mechanisms underlying fundamental plant processes that are of agronomic importance. Biological areas of particular interest include plant-microbe interactions, the control of flowering and life history, how the form of plant organs develops and diversifies, the mechanisms of recombination and meiosis, and responses of plants to their abiotic environment. An integrative approach involving genetics, advanced genomics, protein biochemistry, quantitative imaging and computational modelling enables co-operation and collaboration among groups.

The IMPRS on Complex Plant Traits recruits approximately 12 students a year from around 350 international applicants. Students are finally selected by panel interviews involving at least three faculty members. The progress of each recruited student is closely followed by a thesis advisory committee (TAC) assembled by the student within the first three months of their doctoral thesis work. The TAC is specifically recruited to accommodate the research topic of each student, and meets at least four times during the course of the PhD to provide specific advice to the student. All students also fulfil a curriculum including mandatory training in Good Scientific Practice and attendance at a minimum of two courses or workshops as well as a public outreach module comprised out of a writing and a public engagement activity. PhD candidates have access to central scientific core facilities and individual technical training from the leaders of the services, which include Central Microscopy (CeMic), Max Planck Genome Centre Cologne and the Protein Mass Spectrometry Service. IMPRS students attend three annual retreats that involve all PhD students from the MIPZ, providing extensive opportunities to present their research and for networking. Each of the IMPRS students is also given the opportunity to present their results at an international conference at least once during the doctoral thesis.

Local integration and joint activities

The IMPRS comprises around 20 research groups at the MIPZ and 6 research groups at the University of Cologne. In addition to the interactions within the graduate school, these groups participate within a wider collaborative network involving externally funded programs such as the Cluster of Excellence in Plant Science CEPLAS, the CRC TRR341 on Plant Ecological Genetics and the CRC SFB1403 on Cell Death in Immunity, Inflammation and Disease.

The IMPRS also has strong local connections with the IMPRS on Ageing, with the Graduate School for Biological Sciences (GSfBS) and Cologne Graduate School Biochemistry (CGSB) at the Biology Department of the UoC, as well as the Albertus Magnus Center (AMC) at the University level.

KEY FACTS

<i>Established in</i>	<i>2001</i>
<i>Current UoC Funding Period</i>	<i>January 2020 to January 2026</i>
<i>Speaker of IMPRS</i>	<i>Prof. Dr. George Coupland</i>
<i>Collaborating Universities</i>	<i>University of Cologne University of Düsseldorf</i>
<i>Collaborating MPIS</i>	<i>Max Planck Institute for Plant Breeding Research</i>
<i>Other collaboration partners</i>	<i>CEPLAS, CRC TRR341, CRC SFB1403, rePLANT (HORIZON MSCA Cofund)</i>
<i>UoC Key Profile Area</i>	<i>Plant Science</i>
<i>UoC Faculty</i>	<i>Faculty of Mathematics and Natural Sciences</i>
<i>Departmental umbrella schools</i>	<i>Graduate School for Biological Sciences (GSfBS), Cologne Graduate School Chemistry (CGSC)</i>
<i>Website of the IMPRS</i>	<i>https://www.mpipz.mpg.de/phd-program</i>

Contact Information

*Dr. Monika Schlosser
gradschool@mpipz.mpg.de
0221/5062-124*



1.4 IMPRS ON BEHAVIORALLY SMART INSTITUTIONS (BESMART)



Overview

The International Max Planck Graduate School on Behaviourally Smart Institutions (BeSmart) is a collaboration between the Max Planck Institute for Research on Collective Goods at Bonn, the Universities of Cologne and Bonn, and four prominent international partners: the Norwegian School of Economics in Bergen, the University of California at San Diego, ETH Zurich, and the Hebrew University in Jerusalem. It was founded in 2019 and succeeds the Research School IMPRS–Uncertainty which was founded in 2007. With the advent of Prof. Sutter as second director of the MPI Bonn in 2017, a reorientation of the existing Research School was aimed at and was finally implemented by founding the new Research School IMPRS BeSmart.

The Research School focuses on behavioral and experimental economics and law. It also builds a link to particularly relevant subfields of psychology, such as judgment and decision-making, or social psychology and is designed as a thoroughly interdisciplinary program. All national and international partners bring expertise specifically targeted at this intersection of fields. PhD students from all over the world are offered a structured program for deepening their methodological skills and their understanding of concepts from the participating disciplines. Specifically, lawyers receive training in social science methods, with a specific focus on the empirical side. Economists get exposure to institutional analysis and design, and to the normative debates. While the focus is on training as they join the school, PhD students right from the start are integrated into the research programs of the participating institutions, with the Bonn Max Planck Institute serving as the hub.

Local integration and joint activities

Matthias Sutter, one of the two directors at the Max Planck Institute for Research on Collective Goods in Bonn was a full-time member at the Cologne Faculty of Management, Economics and Social Sciences before he was appointed as MPI director. He continues to be a part-time member of the Faculty. Axel Ockenfels, also professor of the Cologne Faculty of Management, Economics and Social Sciences became a new director at the MPI for Research on Collective Goods in August 2023 while he continues to teach and conduct research at the UoC. His appointment to the MPI in Bonn further intensified the cooperation between the Faculty of Management, Economics and Social Sciences at the UoC and the MPI Bonn, a cooperation that has already contributed to the creation of a prestigious research center for economics behavior and design research in recent years. In addition, researchers from the MPI Bonn are encouraged take on teaching assignments at the Faculty.

A core component of the Research School is a series of joint events, that consist of three elements: Summer School, Thesis Workshop and Topics Workshop.

Summer School: Every year a one-week long summer school is organized. PhD students are required to participate in at least two summer schools. They are welcome to participate in a third one. The summer school focuses on topics and methods that are particularly important for the analysis and the design of smart institutions. As all PhD students go through the training year, in this week PhD students are exposed to latest trends, or to methods or paradigms off the trodden paths. The combined

purpose of the summer school is exposure and team building and seen as a natural opportunity for bringing in our international partners. Furthermore, the summer school is intended to be a breeding ground for new research projects.

Thesis Workshop: A second event that is held every year is a thesis workshop. At this workshop, each PhD student presents (part of) his or her project, and gets feedback from Faculty as well as other PhD students. This workshop not only provides a natural moment for getting projects ready, and for improving presentation skills. It also informs every member of the school about the research that is emerging. This further facilitates collaborative endeavors.

Topics Workshop: The third event that takes place every year is a topics workshop. This is meant to be a joint endeavor with some research community outside the school. It means that another place with related interests present their current work, and invite presentations on related projects from within the school. Obviously, this has also proven a good opportunity for networking.

KEY FACTS

<i>Established in</i>	<i>2007 as IMPRS Uncertainty 2019 as IMPRS BeSmart</i>
<i>Current UoC Funding Period</i>	<i>Until 31.12.2025</i>
<i>Speaker of IMPRS</i>	<i>Prof. Dr. Dr. h.c. Christoph Engel Prof. Dr. Matthias Sutter</i>
<i>Collaborating Universities</i>	<i>University of Cologne, University of Bonn</i>
<i>Collaborating MPis</i>	<i>Max Planck Institute for Research on Collective Goods</i>
<i>Other collaboration partners</i>	<i>University of California, San Diego Norwegian School of Economics NHH ETH Zurich Hebrew University in Jerusalem</i>
<i>UoC Key Profile Area</i>	<i>Social and Economic Behavior</i>
<i>UoC Faculty</i>	<i>Faculty of Management, Economics and Social Sciences</i>
<i>Departmental umbrella schools</i>	<i>Cologne Graduate School (CGS) in Management, Economics, and Social Sciences at UoC</i>
<i>Website of the IMPRS</i>	<i>https://www.coll.mpg.de/imprs-besmart</i>

Contact Information

*Dr. Sabina Haveric
haveric@coll.mpg.de
0228/91416-198*



1.5 IMPRS FOR ASTRONOMY & ASTROPHYSICS



IMPRS
for Astronomy & Astrophysics | Bonn and Cologne
INTERNATIONAL MAX PLANCK RESEARCH SCHOOL

Max Planck Institute for Radio Astronomy
University of Bonn
University of Cologne

Overview

Since its foundation, the Max Planck Institute for Radio Astronomy (MPIfR) has been closely associated with the University of Bonn and the University of Cologne through scientific cooperation, technical development, and joint training of students. Since 2001, the International Max Planck Research School for Radio and Infrared Astronomy in Bonn has been jointly run by the MPIfR and the Argelander Institute for Astronomy at the University of Bonn. The I. Physikalisches Institut (Astrophysik) of the University of Cologne has been a partner of the programme since 2006. In February 2008, the IMPRS was renamed the International Max Planck Research School for Astronomy and Astrophysics (IMPRS-A&A).

The IMPRS-A&A is the formal continuation of a decades-long joint effort by the three partners to involve students in their research projects. It provides a framework for training PhD students in a wide range of astronomical topics. At its core is the topic of radio astronomy, with access to many of the world's leading observatories, including the MPIfR 100m telescope in Effelsberg, the IRAM 30m telescope on Pico Veleta in Spain, the NOEMA interferometer on Plateau de Bure in France, the APEX and ALMA observatories in the Atacama Desert in Chile, and MeerKAT in South Africa. In addition, leading experts in data at other wavelengths use observatories such as ESA/eROSITA for X-rays, or the NASA/Hubble Space Telescope and the ESO/Very Large Telescope for optical data. Scientifically, the IMPRS-A&A covers a wide range of fields, from fundamental physics with pulsars to astrochemistry and cosmology, to name just a few. Facilities such as the European ALMA Regional Centre at the Universities of Bonn and Cologne, or the VLBI computing centre at the MPIfR offer our PhD students exceptional opportunities to train on projects at the forefront of modern astrophysics.

Each year, the IMPRS-A&A typically recruits about 15–20 new students from up to 270 applicants. Our students have access to MPIfR and university infrastructures, and a thesis advisory committee closely monitors their progress. A curriculum of soft and hard skill seminars, travel funding and annual retreats complement the training received in the research groups.

Local integration and joint activities

The IMPRS is integrated with all three departments of the MPIfR, with the seven research groups of the Alfa at the University of Bonn, and with all eight research groups of the Institute for Astrophysics (PHI) at the University of Cologne. All three partners are members of the DFG Collaborative Research Centre 956.

From 2022 to 2026, the MPIfR will be in a transition phase, with two of the three MPIfR directors and several professors at both universities retiring. With the recent appointment of Prof. Amelie Saintonge as the first of the new directors for 2025, we expect to further strengthen the collaboration between our institutions, especially also with regard to the IMPRS A&A.

Our goal is to make the IMPRS A&A permanent in 2026, as envisaged in the MPG Senate's "IMPRS Concept". The application deadline for this next step is June 28, 2024. 2023 was a year of restructuring processes to prepare the IMPRS A&A for the next decade. In particular, we digitised most of the processes for both recruitment and student management by introducing a new online platform and database. This has allowed us to implement a structured recruitment approach with a more transparent evaluation of the candidates. The management system encourages a high level of participation by each individual student and is seamless integrated with our new alumni system, which will help us to track and support the achievements of our students during and after their doctoral studies.

KEY FACTS

<i>Established in</i>	<i>2008</i>
<i>Current UoC Funding Period</i>	<i>2020-2026</i>
<i>Speaker of IMPRS</i>	<i>Prof. Dr. Anton Zensus</i>
<i>Collaborating Universities</i>	<i>University of Cologne, University of Bonn</i>
<i>Collaborating MPIs</i>	<i>Max Planck Institute for Radio Astronomy</i>
<i>UoC Faculty</i>	<i>Faculty of Mathematics and Natural Sciences</i>
<i>Departmental umbrella schools</i>	<i>Bonn-Cologne Graduate School for Physics and Astronomy (BCGS)</i>
<i>Website of the IMPRS</i>	<i>https://blog.mpifr-bonn.mpg.de/imprs/</i>

Contact Information

*Dr. Gunther Witzel
gwitzel@mpifr-bonn.mpg.de
0228/525 358*



ACTIVITIES

02

A decorative graphic consisting of three overlapping circles. The central circle is a medium blue color. To its left, a larger circle is partially visible, colored in a reddish-orange hue. To its right, another larger circle is partially visible, colored in a lighter blue shade. The circles overlap in a way that creates a sense of depth and movement.

2. ACTIVITIES 2023

	<i>Ageing</i>	<i>SPCE</i>		<i>BeSmart</i>		<i>Plant Traits</i>	<i>Astronomy & Astrophysics</i>	
		<i>Total</i>	<i>UoC</i>	<i>Total</i>	<i>UoC</i>		<i>Total</i>	<i>UoC</i>
<i>Total no. of doctoral students (as of Dec 31st)</i>	46	30	6	14	2	36	64	10
<i>% of international students in IMPRS</i>	63%	40%	33,33%	28%	0%	78%	81%	70%
<i>% of female students in IMPRS</i>	65%	53,33%	66,67%	25%	50%	56%	38%	20%
<i>No. of completed PhD thesis</i>	11	4	1	2	0	8	15	7
<i>No. of discontinued PhD thesis</i>	0	0	0	1	0	0	1	0
<i>No. of applications</i>	559	136 ¹		43		294	204	
<i>Average PhD time in months</i>	57	42		42		49	50	
<i>No. of IMPRS core faculty members at the UoC</i>	29 ²	3		3		6	8	
<i>No. of IMPRS core faculty members at the MPI</i>	17 ³	5		2		18	24	

¹ The number of applications is related to the last call (Dec. 2022–Feb 2023), i.e. the same call referenced in the annual report for 2022. The current call closes in February 2024.

² At CECAD

³ At MPI AGE and MPI MR

	Ageing	SPCE	BeSmart	Plant Traits	Astronomy & Astrophysics
Teaching obligations of doctoral students⁴	No	According to contract	No	According to contract	Teaching lab courses is expected. ⁵ ≈ 8 SWS.
Internal Mentoring programmes	Buddy programme , Mental Health First Aider Programme , Thesis Advisory Committees, CGA alumni mentoring programme (pilot phase)	SPCE assigns one mentor to each student, ensuring personal contact from the very beginning. ⁶ A buddy program for researchers from abroad exists.	MPI Directors assign a mentor to each student upon arrival to ensure personal contact from the beginning.	Buddy System, Thesis Advisory Committees	Thesis advisory committees, student "buddy" program
Mobility grant for students? (e.g. for Conference participation, Workshops, Research Stays)	All CGA students receive three travel grants of 1000 €/ year.	Funds are available for fieldwork trips, stays abroad, and conference travel. ⁷	Six-months research stay abroad and 1-2 conference participation per year	800€ p.a./per student for 36 months for work related travel (Lab exchange, workshops, conferences);	Doctoral students have 1000€ p.a. at their disposal for conference participation, workshops, German course etc. ⁸

⁴ Due to the switch to 65% TV-L contracts in October 2023, doctoral candidates funded by the UoC will have a teaching obligation in future.

⁵ Except for their first and last semester of doctoral studies.

⁶ Questions discussed in the mentoring relationship range from how to plan a research project to mastering challenges that might occur during the research process.

⁷ Such funds are allocated according to project-specific agreements with the advisor and the respective regulations of the institution financing the contract/scholarship – either the Max Planck Institute, the University of Cologne, or the University of Duisburg-Essen.

⁸ The funds may only be used for the intended purpose.