



Deutscher Akademischer Austauschdienst  
German Academic Exchange Service



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# Doctorate



## GGNB Cellular and Molecular Physiology of the Brain (PhD)

University of Göttingen • Göttingen

### Overview

Degree	PhD (Division of Mathematics and Natural Sciences) or, alternatively, Dr rer nat
In cooperation with	Max Planck Institute for Multidisciplinary Sciences (MPI-NAT), European Neuroscience Institute Göttingen (ENI-G), German Primate Center (DPZ)
Teaching language	<ul style="list-style-type: none"><li>English</li></ul>
Languages	English
Full-time / part-time	<ul style="list-style-type: none"><li>full-time</li></ul>
Programme duration	6 semesters
Beginning	Only for doctoral programmes: any time
Application deadline	Application is possible independent of deadlines.
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	<p>Research of the CMPB programme aims at understanding how molecules, cellular compartments and cell types interact to mediate key events representing brain function, including (i) synapse formation, synaptic function and synaptic plasticity, (ii) neuron-glia interactions, (iii) neuronal development and ageing (iv) neurodegenerative, neurological, and psychiatric diseases, and (v) functional restoration after injury and in disease.</p> <p>The programme provides cutting-edge training in molecular/cellular neurobiology, biochemistry, molecular biology, large-scale omics approaches, cell staining/imaging, electrophysiology, systems physiology, light and electron microscopy, and super-resolution microscopy. The programme fosters interactions between students to facilitate the exchange of expertise and ideas. The overall goal of these efforts is to understand the molecular underpinnings of cellular function in the healthy brain, in order to elucidate how they change during ageing and in disorders of the brain and to test how functional deficits can be restored.</p> <p>The programme provides the students with the theoretical and practical expertise to study the</p>

## Course Details

<b>Course organisation</b>	<p>The doctoral programme in "Cellular and Molecular Physiology of the Brain" is part of the Göttingen Graduate Center for Neurosciences, Biophysics, and Molecular Biosciences (GGNB).</p> <p>The research-oriented programme is taught in English and open to students who hold a Master's degree (or equivalent) in the biosciences, chemistry, physics, or related fields.</p> <p>The GGNB offers an integrated training and qualification concept consisting of:</p> <ul style="list-style-type: none"> <li>• Thesis advisory committees advising the doctoral student and monitoring the progress of the doctoral project</li> <li>• Scientific methods courses, seminars and summer schools in all science areas covered by the graduate school</li> <li>• Professional skills courses in the four categories of Scientific Communication; Good Scientific Practice, Ethics, and Intellectual Property; Self-Management and Organisational Skills; and Career Development, as well as German language courses and courses on scientific English</li> <li>• Industry excursions to biotechnological, pharmaceutical, optical or (bio)physical companies, guided by GGNB alumni</li> <li>• Student-organised scientific symposia and career-related events</li> <li>• Annual PhD retreats organised by the programmes</li> </ul> <p>In total, 20 credits are required, and doctoral students can tailor their individual curricula by choosing from all courses and events. Only a seminar on good scientific practice is mandatory.</p> <p>The doctoral students hold at least three annual Thesis Advisory Committee meetings within the regular PhD time of three years. The maximum duration of PhD studies in GGNB is four years.</p>
<b>A Diploma supplement will be issued</b>	No
<b>International elements</b>	<ul style="list-style-type: none"> <li>• Language training provided</li> <li>• Training in intercultural skills</li> <li>• Projects with partners in Germany and abroad</li> </ul>
<b>Integrated internships</b>	<p>Option of research collaboration with other research institutions</p> <p>Methods courses in biochemistry, molecular biology, cell staining and imaging, electrophysiology, systems physiology, light and electron microscopy, and genetics</p>
<b>Course-specific, integrated German language courses</b>	Yes
<b>Course-specific, integrated English language courses</b>	Yes

## Costs / Funding

<b>Tuition fees per semester in EUR</b>	None
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<b>Semester contribution</b>	Fees are around 400 EUR per semester. The fees include a prepaid semester ticket that entitles students to use regional trains (in Lower Saxony and Bremen) and city buses in Göttingen free of charge. Students of the University of Göttingen receive discounts for cultural events. Meals and drinks are also available at reduced prices at all university canteens. Fees: <a href="http://www.uni-goettingen.de/fee">http://www.uni-goettingen.de/fee</a> Semester ticket: <a href="http://www.uni-goettingen.de/en/16432.html">http://www.uni-goettingen.de/en/16432.html</a>
<b>Costs of living</b>	The average cost of living in Göttingen is modest compared to other major university cities in Germany. Currently, expenses for accommodation, food, health insurance and books are approx. 1,000 EUR per month. Please note that fees for health insurance may vary according to age. Living expenses might be slightly higher. For further information, please see the following link: <a href="http://www.uni-goettingen.de/en/54664.html">www.uni-goettingen.de/en/54664.html</a> .
<b>Funding opportunities within the university</b>	Yes
<b>Description of the above-mentioned funding opportunities within the university</b>	Doctoral fellowships are available at approx. 1,200 to 1,500 EUR per month.

## Requirements / Registration

<b>Academic admission requirements</b>	Master's degree or equivalent in biosciences, psychology, physics, or a related discipline
<b>Language requirements</b>	Applicants whose native language is not English are asked to submit proof of proficiency in English. If no English test is available, proficiency in English can be evaluated during a personal interview. Proven higher education in English or a reasonably long stay in an English-speaking country may also be accepted.
<b>Application deadline</b>	Application is possible independent of deadlines.
<b>Submit application to</b>	Online application at <a href="http://www.uni-goettingen.de/en/apply/497097.html">http://www.uni-goettingen.de/en/apply/497097.html</a>

## Services

<b>Accommodation</b>	<p>The Accommodation Service of the International Office supports international students who are enrolled at the University of Göttingen to find accommodation in Göttingen and serves as a point of contact for queries. The service works together with the private market in Göttingen and the Student Services ("Studentenwerk"). As the amount of accommodations in Göttingen is limited, it is highly recommended to contact the Accommodation Service as early as possible.</p> <p>Further information: <a href="https://www.uni-goettingen.de/en/617883.html">https://www.uni-goettingen.de/en/617883.html</a></p> <p>Please note: For doctoral students, accommodation services are only available if you have a low income.</p>
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Structured research and supervision	Yes
Research training / discussion	Yes
Career advisory service	Information on the career service for doctoral students in the natural sciences can be found here: <a href="http://www.gauss.uni-goettingen.de/career">http://www.gauss.uni-goettingen.de/career</a> .
Support for international students and doctoral candidates	<ul style="list-style-type: none"> <li>• Buddy programme</li> </ul>

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## Contact

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🌐 Course website: <https://www.uni-goettingen.de/de/56640.html>

📘 <https://www.facebook.com/University.of.Goettingen>

🐦 <https://twitter.com/uniGoettingen>

🌐 <https://www.linkedin.com/school/-university-of-goettingen>

📷 <https://www.instagram.com/unigoettingen>

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# International Programmes in Germany - Database

[www.daad.de/international-programmes](http://www.daad.de/international-programmes)  
[www.daad.de/sommerkurse](http://www.daad.de/sommerkurse)

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## GATE-Germany

Consortium for International Higher Education Marketing  
[www.gate-germany.de](http://www.gate-germany.de)

## Disclaimer

The data used for this database was collected and analysed in good faith and with due diligence. The DAAD and the Content5 AG accept no liability for the correctness of the data contained in the "International Programmes in Germany" and "Language and Short Courses in Germany".

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