

Two-year Scholarship - Exchange between Duke National University Singapore (NUS) and Paracelsus Medical University (PMU) Nürnberg/Klinikum Nürnberg

In a newly established exchange programme, within our PhD programme „Medical Science“, we offer the opportunity to conduct a sponsored research project in the laboratory of Prof. Jens Titze, MD at Duke NUS in Singapore. The successful candidate will be enrolled into the PhD programme at the PMU Nürnberg and spend the first year in Nuremberg, followed by a sponsored 2-year preclinical PhD research project at Duke NUS in Singapore (Scholarship).

In general, our PhD „Medical Science“ programme is open to all innovative people who want to learn how to conduct high quality. A doctorate is the gateway to research as a profession in academia, in a clinical setting or in the private sector. Your main drivers should be curiosity, self-discipline and a keen interest in the workings of our body, its cells, its disorders and their cures.

The doctorate is taught through the medium of English and lasts a minimum of 3 years depending on the nature of the research. As a 180 ECTS (European Credit Transfer System) programme, it completes the higher education cycle (third cycle) at the national and European level 8. It is also the stepping stone to obtain a Habilitation. The academic award is the Doctor of Philosophy (PhD, philosophiae doctor), the highest academic degree with a worldwide recognition.

Research plan PhD Medical Science exchange programme between PMU/Klinikum Nürnberg und DUKE NUS Singapur	
1. year in Nuremberg at PMU/Klinikum Nürnberg	Planning and conceptualisation of research project and visit in Singapore
2. and 3. Year in Singapore at DUKE NUS (Scholarship)	Conducting a preclinical research project about „cardio-renal metabolism“ offered by the Cardiovascular & Metabolic Disorders Programme at Duke NUS in the lab of Prof. Titze; thorough training in basic research
Each study year one week of lectures (3 weeks in total), plus „optional activities“	In Nuremberg or via Zoom/MS Teams

- ➔ PhD students in Singapore must follow the Curriculum of our PhD programme
- ➔ For more information about the PhD programme „Medical Science“ at PMU Nürnberg visit the following page: [Medical Science \(pmu.ac.at\)](http://pmu.ac.at)

PhD Student Position at Paracelsus Medical University Nürnberg (PMU)/Klinikum Nürnberg and Duke-National University Singapore (DukeNUS)

The Paracelsus Medical University Nürnberg in collaboration with the Cardiovascular & Metabolic Disorders Programme at DukeNUS Singapore offers an opportunity for

1 PhD student

with an interest in **preclinical cardio-renal metabolic research**.

You will be working on a project that

- ➔ Aims to understand the link between body fluid and energy homeostasis in the pathogenesis of cardiovascular disease (1,2)
- ➔ Genetically targets immune cells in an effort to better understand how the immune system acts as a physiological regulator to coordinate the interface between body fluid and energy homeostasis (3,4)
- ➔ May transform the way we currently think about body fluid and energy homeostasis (<https://www.nytimes.com/2017/05/08/health/salt-health-effects.html>).

DukeNUS was established as a collaboration between Duke University and the National University of Singapore (NUS) and conducts research at 5 different Signature Research Programmes, which aim to transform the way we understand, diagnose, and treat diseases (<https://www.duke-nus.edu.sg/about/about-duke-nus>).

Interested? Please contact Jens Titze, MD and Dr. rer. nat. Barbara Ruder; Paracelsus Medizinische Privatuniversität; Klinikum Nürnberg | Standort Nord, Prof.-Ernst-Nathan-Straße 1, 90419 Nürnberg.

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Project-specific references:

1. The Journal of Clinical Investigation 2017;127:1625-6.
2. Acta Physiol (Oxf) 2021;232:e13658.
3. The Journal of Clinical Investigation 2013;123:2803-15.
4. Nature Medicine 2009;15:545-52.