

## CERTIFICATES

The GZW issues certificates for the subject-specific qualification programme (LEVEL I) and another one for your scientific presentation (LEVEL II).

## ADDITIONAL INFORMATION

Organization GZW

Dates **LEVEL I:**  
Wednesday, 08.03.2017  
14:00 to 17:00 \*

**LEVEL II:**  
Wednesday, 05.04.2017  
14:00 to 17:00 \*

\* Afterwards get together in the GZW Lounge with free beer and snacks

Location Campus Weihenstephan, Freising, GZW, Alte Akademie 6

Language English

Costs **FREE OF CHARGE!**

### REGISTRATION

For your participation, please send an Email to [melanie.spornraft@tum.de](mailto:melanie.spornraft@tum.de) until 1st of March 2017.

If you have further questions, do not hesitate to give us a call: **+49.8161.71.2966**



FURTHER CAMPUS CONNECT SEMINARS ON DIFFERENT SCIENTIFIC TOPICS WILL BE PROVIDED IN THE FUTURE.



### THE GZW IS ALSO ON FACEBOOK

Stay up to date and be best informed:  
**GZWscienceandlife**



**Graduate Center Weihenstephan (GZW)**  
Alte Akademie 8 . D-85354 Freising  
Tel. +49 8161 71 24 54  
[gzw.wzw.tum.de](http://gzw.wzw.tum.de)



Graduate Center Weihenstephan offers new seminar:

# NEXT GENERATION SEQUENCING

Graduate Center Weihenstephan



**TUM Graduate School**

## OVERVIEW

Next Generation Sequencing (NGS) is an incredibly powerful technology that is transforming research in molecular biology and medicine. NGS enables a wide variety of applications, allowing researchers to ask virtually any question related to the genome, transcriptome or epigenome of any organism.

At the TUM Campus School of Life Sciences Weihenstephan (WZW), PhD candidates have the possibility to take advantage of the TUM sequencers and the NGS community with its experience.

In a nutshell, this seminar aims to offer an introduction to the sequencing technology, to simplify access to the sequencing facilities of the WZW and to join the NGS community.

The seminar will take place in two sessions. The first step (**LEVEL I**) provides an introduction to the sequencing technology in general and highlights the wide spectrum of sequencing methods that can be performed by the WZW sequencers. You meet responsible persons of the WZW sequencers and learn how you get access to use the technology on our campus. PhD peers present short experience talks that may inspire you for your own experiments.

In **LEVEL II**, you visit the sequencing facilities on the campus, strengthen your NGS connections and you have the chance to pitch your research project to a committee of NGS experts. They support you with a personal and specific feedback that you can directly apply to your research.

## AUDIENCE

**THIS SEMINAR IS AIMED AT PHD STUDENTS AND POST-GRADUATES OF TUM AND RELATED RESEARCH FACILITIES, WHO FACE RESEARCH PROJECTS THAT INVOLVE NGS EXPERIMENTS.**



## SYLLABUS

**THIS COURSE OFFERS:**

- + Introduction of different NGS platforms and sequencing solutions powered by Illumina
- + Overview of NGS workflow steps from library preparation to sequencing
- + Meeting representatives of the WZW sequencing facilities
- + Information about the conditions of the sequencing facilities concerning planning, running and analyzing NGS experiments
- + Summary of the variety of accomplished NGS projects at the WZW
- + Possibility to pitch your research project in front of an expert panel

## OUTCOMES

**AFTER THIS SEMINAR YOU SHOULD BE ABLE TO:**

- + Understand the basic technology behind the Illumina sequencing solutions
- + Understand advantages and limitations of NGS analyses
- + Select an appropriate NGS method including library preparation and sequencing system for your own research project
- + Identify contact persons in the WZW NGS community
- + Apply an unique feedback of your science pitch to your project
- + Develop your personal network for future projects, cooperations, scientific exchange and publications