



University of Cyprus
Department of Biological
Sciences

Postgraduate Seminars

Seminar Series 2020 - 2021

Assist. Prof. Carsten W. Lederer

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Medicine, The Cyprus Institute of Neurology and Genetics, Nicosia, Cyprus

“Practical Statistics for Biologists”

Wednesday, 14 October 2020, at 17:00

This seminar will be hosted via Zoom.

Click [here](#) to find the seminar registration link and join our seminar.

This seminar is open to the public

Statistical analyses are an integral part of the scientific process and are as important to the initial design as to the final evaluation of most high-impact biological and biomedical studies. However, statistical analyses are frequently insufficiently reported or are even applied wrongly or not at all in many fundamental and applied publications. This has prompted many more renowned scientific journals to impose strict guidelines on application and reporting of statistics. More importantly, only suitable statistics allow authoritative and meaningful statements and correct experimental decisions, so that unfamiliarity with statistical analyses may turn into an impediment as much for a publication, as for a thesis, a research project or even an entire career.

This seminar will (i) introduce basic statistical concepts with focus on significance testing, before (ii) illustrating their application with typical examples of biomedical research applications and (iii) pointing out instructive cases of abuse from the published literature.