



University of Cyprus  
Department of Biological  
Sciences

# *Postgraduate Seminars*

*Seminar Series 2020 - 2021*

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### **“Genome Editing for Therapy Development and Reverse Genetics”**

**Wednesday, 23 September 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***

Designer nucleases and their derivatives allow editing or disruption of virtually any sequence of interest and thus are powerful tools for research and therapy. With rapid technology development over the last decade and straightforward application in particular of the RNA-guided CRISPR/Cas system, genome editing can now be easily adopted for research applications and is swiftly replacing or complementing other technologies for functional analysis. In this context, the field of haemoglobinopathies continues to serve as an exemplary test bed and showcases the versatility of genome editing technology, from fundamental research into developmental and regulatory processes to the clinical application of novel therapies.

This seminar will (i) summarise the current state of the art in the application of genome editing technology, (ii) highlight exemplary third-party use of editing technology and some of the work performed at the speaker's laboratory using TALEN and CRISPR/Cas nucleases and (iii) give a selective indication of tools and resources helpful in the initial establishment of editing technology.