# The ins and outs of CRISPR-Cas

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*Date:* *March 2-3 and 10-11, 2020 (if there is sufficient interest once every year)*

*Location:* *Erasmus MC*

*Duration:* *4 days*

*for PhD students with an active interest in genome engineering using this technique AND an interest in understanding the molecular mechanism of its function*

**The CRISPR-Cas9 system is revolutionizing the field of biomedical science by allowing efficient mammalian genome editing. This course will offer students the latest advances in this technique and allows them interactions with leading scientists in the field. Students will study the underlying biochemical and biophysical principles of Cas9 structure-function relations, through literature study and practical protein visualization. Furthermore students will design a genome modification strategy based on their own research project or available case studies. Focus will be on assimilation and application of background and new knowledge in an interactive setting including computer assignments, discussion sessions and student presentations.**
**The course runs for 4 full days and requires preparation.**

***There is a minimum of 18 and a maximum of 24 places.***

***When registering for this course, please provide a short motivation of max. 100 words (this will be used for selection in case the course is oversubscribed).***

*The course is free for all members of the MGC institutes. Course fee for participants from outside these institutes is € 500.*