

INVITATION CMMC SEMINAR

Gang Bao

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Nanomedicine and genome editing based approaches for disease therapies

The design and optimization of nanomedicine and genome editing based tools and methods provide unprecedented opportunities for achieving a better control of biological processes, and drastic improvements in disease diagnosis and treatments.

In this talk Professor Gang Bao will present the recent development and application of magnetic nanoparticles in his lab, incl. magnetic targeting of stem cells and magnetic nanocluster-based treatment of metastatic cancer.

He will also discuss the development of CRISPR/Cas9 genome editing based approaches for treating sickle cell disease, and the quantification of unintended large gene modifications at the Cas9 on-target cut sites.

Finally, he will discuss the challenges and opportunities in using *in vivo* genome editing to treat human diseases.

April 02, 2024
3.00 p.m.

Seminar Room
CMMC Research Building
Robert-Koch-Str. 21, 50931 Cologne

Host:
Kurt Pfannkuche
Institute of Neurophysiology



Information