



生命科学学院特别学术讲座



Phage display selection strategies in the quest for novel therapeutics and novel therapeutic targets

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Dr. Kristensen did his postdoc at the MRC-LMB in Cambridge in the lab of Nobel laureate Sir Greg Winter. In this talk, an overview of challenges, solutions and opportunities for phage display techniques will be given. Selection of antibodies on whole cells can be targeted against known antigens overexpressed on cell surfaces, but phage display can also be used as a discovery tool to identify antigens differently expressed by cell population, or single cells in a heterogeneous population.

The research of Peter Kristensen is centered on the technical development and application of methods that allow Darwinian evolution of proteins using directed evolution technologies. Dr. Kristensen was the first to develop technologies, which allow isolation of proteins with improved stabilities from large libraries of mutants. The interest to make technological developments based on recombinant antibodies and for manipulating protein stability and activity, were initiated while However to justify technological development, the technology developed should be able to provide new insight or solve important problems and here we have especially focused attention at finding novel biomarkers which can be used in characterization of important human conditions, such as age related diseases and rare circulating cells in the blood, just to mention the most relevant examples.

时间：2019年9月25日（星期三），14:00-15:30

地点：北京大学生命科学学院 ??? 报告厅

主持人：苏晓东教授

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