08 S31 - Generation and Phenotyping of Genetically Engineered Animals

Genetic engineering of experimental animals (transgenic animals, knockout mice, etc) has become an indispensable tool in biomedical research in a vast array of fields of specialisation. Quite sophisticated technical approaches have been established that allow for conditional transgenes and knockouts, e.g. cell-type specific or externally inducible knockouts. The seminar will introduce into the basic approaches and tools of generating such models, including conditional genetic changes, in mice and other mammals. Several fields of research will be discussed as examples for rapid technical progress in this field. Several specific models will be demonstrated. In addition, ethical issues and legal issues of relevance will be addressed. The seminar will also cover critical aspects of experimental animal technology including spontaneous background pathology, breeding strategies and strain differences. The seminar is intended for everybody interested in the technology, regardless of background. A veterinary background is not required.

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