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Life Sciences : Animal Genetics and Genomics

Pease, Shirley, Lois, Carlos (Eds.)

Mammalian and Avian Transgenesis - New Approaches

- Detailed step-by-step protocols, allowing immediate application in the lab
- Appealing to geneticists in academic and industrial research but also of interest for labs in the biotech industry
- Shirley Pease heads the "Transgenic and Knockout Core Facility" at the California Institute of Technology, Pasadena, CA; Carlos Lois is at the MIT, Cambridge, MA
- With superb color figures demonstrating the various steps in transgenesis

Mammalian and Avian Transgenesis presents a collection of novel methods for the production of a wide range of transgenic animals. The manual focuses largely on mice, but also contains protocols for successful transgenesis in rats, cows, pigs and birds. The manual provides detailed, step-by-step protocols covering all aspects of the production of transgenic animals, including the use of lentiviral vectors in gene transfer, intracytoplasmic sperm injection, nuclear transfer, large insert transgenesis, conditional gene expression systems, the use of reporter genes in transgenesis and transgenesis in large animals and birds. The text is supplemented by superb color photos. While the focus is on newly established techniques, the fundamental methods of transgenesis are also covered for those new to the field. Thus this manual is perfectly suited for those wishing to adopt new technologies in transgenesis.

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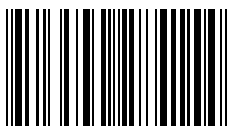
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