Mindluster Platform

About the course Animal biotechnology fundamentals

Course Presenter : Bio science

Animal biotechnology, in this course we will learn about the core concepts and techniques used in animal biotechnology, including genetic engineering, transgenic animal production, cloning, animal cell culture, and stem cell applications. Youâ€™ll explore how biotechnology improves animal health, enhances productivity, and supports biomedical research through the use of animal models. Weâ€™ll also examine the role of gene editing tools like CRISPR/Cas9 in developing disease-resistant animals and producing therapeutic proteins. Ethical and regulatory considerations in animal biotechnology will also be discussed. Whether you're a student of biology, veterinary science, or biotechnology, this course will give you a solid foundation to understand and apply biotechnological advances in the animal field. Join us and step into the future of animal science. Bio science

Medical Category's Courses

Course Lesson(9)

Lesson 1 : **Tissue engineering Technique Procedure Bio science**

Lesson 2 : **Animal cloning Production of Dolly The sheep Somatic cell nuclear transfer Bio science**

Lesson 3 : **Animal Transgenesis Transgenic animals Process Examples Bio science**

Lesson 4 :
DNA microinjection Embryonic stem cell mediated gene transfer Gene transfer techniques

Lesson 5 :
Cell line Culture procedure Finite and continuous cell line Primary and secondary cell lines

Lesson 6 : **Electroporation Gene transfer techniques Electropermeabilization Bio science**

Lesson 7 :
Lipofection Liposome encapsulation Transfection Gene transfer technique rDNA technology

Lesson 8 : **Capillary pipette method Single cell isolation method Bio science**

Lesson 9 : **Retrovirus mediated Gene transfer RMGT procedure Bio science**

Related courses

Infection Control

Male Reproductive

Anatomy

Pharynx

Endocrine

General Embryology

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