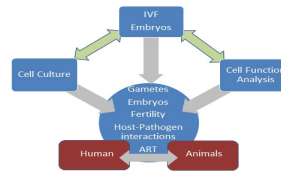




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GS-VMAS

NOVA course: Sperm Quality Evaluation

Provisional programme

Monday

Introduction to Sperm Quality Evaluation
Spermatogenesis – overview and principles of mammalian spermatogenesis
Factors influencing sperm quality
Seminal plasma and its effects on sperm quality
Contamination of semen – sources and preventative actions

Tuesday

Sperm assessment: Light and fluorescence microscopy
Computer assisted sperm analysis (CASA)
Flow cytometry
Fertilizing capacity: in vitro fertilization, binding assays
Introduction to fish reproductive physiology

Wednesday

Sperm quality in cattle breeding: dairy, bull
Sperm quality in pig breeding
Sperm quality in dog breeding
Avian sperm quality

Thursday

Sperm quality in aquaculture
Conservation breeding/genetic diversity
Effect of dioxins in the environment on human sperm quality
Effect of egg incubation conditions on offspring

Friday

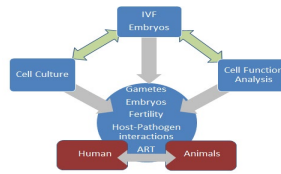
Improving sperm quality by sperm selection
Sperm quality in human assisted reproduction
Sperm binding to junco





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Demonstrations and practical classes (throughout the week): Sperm morphology evaluation; collection of fish gametes and fertilization; CASA, light and fluorescence microscopy; flow cytometry

