Can Tecnology in Lab Animal Science support reproducible and precise research?

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1ST NORDIC ZEBRAFISH & MEDAKA CARE WORKSHOP
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Housing Systems for Aquatic Species

- Main aquatic systems
  - Static
  - Flow through
  - Recirculating
Recirculating System

Diagram showing the flow of water through various components such as Reservoir, Pump, Bio-filter, Secondary solids removal, Chemical filtration, Water Disinfection, and Housing tanks, with arrows indicating the direction of flow. Additional elements include Drain and Pipes.
Recirculating System
Self-Cleaning design

Drum filter
Reservoir
Biofilter
Pump/s
Chemical filtration
Water Disinfection

Housing tanks

Drain

Pipes
Institutional Support

EUROPE

USA
Monitoring System
Probes and buffering Systems

Constant Water Quality parameters kept 24/7
Water Delivery

VFD pumps, flow-meter, pressure sensor to maintain a constant water flow at tank level
Water Consumption

- Constant control of correct water refreshment
- Constant control of water consumption
Water Disinfection

- What is the Disinfection killing rate?
- How can I know they are working properly?
- How do I know it is time to change?
Sentinel Program

Preventive routine evaluation for specific pathogens
Disinfection Units

Treatment of Effluent Water
Photoperiod

Set and homogeneous light intensity across the tanks
Automatic Feeding System

Constant, precise and trackable delivery of food

innovation through passion
THANK YOU!

Massimo