



SENSALAB: SETTING NEW STANDARDS IN DIGITIZING ANIMAL IDENTIFICATION AND DATA MANAGEMENT

Somark Innovations (Somark) is a global leader in laboratory animal identification and research data management.

Somark's SensaLab is a world-first, cost-effective technology ecosystem integrating innovative hardware and software to accurately and efficiently record laboratory test animal characteristics in the research phase.

SensaLab converts traditional analog and manual processes into a streamlined digital process, which removes human error and authenticates findings.

THE ECOSYSTEM

SensaLab arms researchers with efficient and trusted unique animal identification, starting with the insertion of the world's smallest RFID tag (digitail) used in pre-clinical research into the base of the animal's tail to create a digital mouse.

Across the research phase, the characteristics of the digital mouse are accurately assessed through the integrated SensaLab ecosystem.

The ecosystem includes the following elements:

- Digital mouse – a purpose-built digitail RFID identification (with digitail application equipment)
- RFID scanner - instant identity verification of the mouse being manipulated (either hand-held or benchtop scanner)

- Analytic equipment – existing analytical laboratory equipment such as scales and calipers are easily integrated into the system
- Real time data recording and management - captured information is instantly processed through the SensaLab Connect software into your current application (or to Somark's SensaLab Study Cloud software)

Benefits and advantages:

- Accurate identification of test animals
- Improved research reliability and accuracy
- Significant time and cost efficiencies
- Improved animal welfare
- Reduced human error and fatigue from repetitive manual handling and identification
- Scalable and modular, to suit all research laboratory needs
- Application across the supply and value chain, from breeders to research organizations
- Protects the investment in current digital devices

The SensaLab ecosystem provides the necessary accuracy and certainty to progress pre-clinical research to clinical trials.

DIGITAL MOUSE – THE WORLD’S FIRST RFID TAG DESIGNED FOR MICE

The SensaLab capability starts with the creation of a digital mouse through the insertion of a tiny RFID tag (Digitail) which is the first RFID created specifically for mice (and rats) used in medical research.

The digitail is:

- the only RFID tag available in the market designed specifically for mice (and rats)
- the smallest RFID tag in the market, designed to benefit animal welfare
- non-surgical and doesn't require anesthetic to apply
- inserted by injection just below the skin at the base of the tail, with minimal training required
- quickly applied (usually less than 5 seconds per mouse)
- easily scanned with longest reading distance of any tag of this size
- able to be read consistently, from any angle
- can be read through glass and plastic materials
- suited to mice and rats from pre-weaning age through to adults
- highly durable, lasting the lifespan of the mouse and research phase

SensaLab provides an integrated, efficient, streamlined and complete digital research platform, which maintains research integrity with enhanced accuracy and animal welfare, while providing a complete audit trail.



Additional Tags delivered in sealed packs of five and 20 in a box

SENSALAB SCANNING AND ANALYSIS

The **SensaLab Connect** is the heart of the ecosystem linking the unique RFID identifier to the database of information associated with each animal.

The **SensaLab Benchtop Reader** interfaces with SensaLab Connect to enable fast and accurate reading of the right animal, every time. This provides the technician with free hands to manipulate the animal as required.

The **SensaLab Handheld Reader** is a further scanning option, allowing for greater reader mobility in the laboratory environment.

If required, **SensaLab** has an application which can connect in with existing laboratory software and data management platforms, such as Electronic Lab Notebooks or Laboratory Information Management Systems.



Sensalab platform

Please get in contact for more information, to receive a free demonstration or to discuss your needs.

To find out more about **SensaLab** and **Somark** please get in contact by:

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Please visit our website and see how SensaLab is digitizing and transforming laboratories at: mysensalab.com/videos