

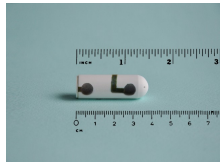


Going to the SPS annual meeting



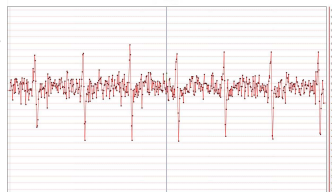
Our temperature and logger and telemetry f showcased by our sta Safety Pharmacology annual meeting in Pra Republic next week, 2 Oct. You are welcome

Substantial memory increase for ECG validation



Star-Oddi's leadless heart rate and temperature logger [DST milli-HRT](#) can now store substantially more ECG validation data in memory, yielding more ECG data to the researcher through a large memory increase of the logger.

Heart rate (beats per minute) and temperature is recorded at a defined sampling interval but the ECG can also be recorded at certain periods for ECG validation. The memory capacity for storing ECG has gone up 16-fold, from 174 to 2,785 raw ECG measurements. If the raw ECG



measurements are never saved, the memory capacity is 699,000 measurements for heart rate and temperature. The graph shows ECG data from a laboratory rat.

The increased memory is available in the [DST milli-HRT](#) which is 13mm x 39.5mm, weighing 11.8 g. Star-Oddi also offers a smaller version of the heart rate and temperature logger, [DST micro-HRT](#), which is 8.3mm x 25.4mm and weighs 3.3 g.

Heart rate logger gaining ground

The Star-Oddi's heart rate and temperature logger has received great response in only a short period, not only in laboratory use but also in high appreciation in wildlife research as the leadless design facilitates quick and minimally invasive implantation.

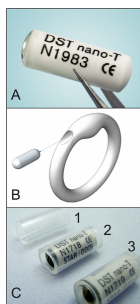


Since its release 20 months ago it has reached widespread use covering typical animal models such as rats, rabbits, ferrets and macaques to more unconventional wildlife models such as brown bears, bats and different types of fish to name a few. The logger provides scientists with ECG derived heart-rate and core body temperature measurements for periods lasting days up to months.



NEWS FROM THE LAB

Adherence to vaginal rings validated using nano temp logger -rings used to fight HIV epidemic in Africa



Last May a paper was published in [PlosOne](#) where the world's smallest temperature logger the [DST nano-T](#), 6 mm x 17 mm, 1 g, was used in a validation study for vaginal rings to measure adherence. By embedding the temperature logger inside a vaginal ring sampling every 8 minutes it was possible to accurately detect periods of ring removal when tested in macaques. The results prove that vaginal rings containing embedded temperature loggers may be useful in the assessment of product adherence in late-stage clinical trials.

The end goal of the vaginal rings is to reduce HIV infections in Africa significantly by use of the rings in women.



Cynomolgus macaques favoured for pandemic H1N1 influenza virus research



Results of a new study published in [PlosOne](#) which explores the effect of H1N1 Influenza Virus in Cynomolgus macaques, Rhesus monkeys and common Marmoset favoured the cynomolgus macaques as a model for pandemic H1N1 influenza virus research. The reason is the more uniform and higher levels of virus replication and temperature increases. This may be attributed to a more abundant expression of the main human influenza virus in the trachea and bronchi.

The researchers used [DST micro-T](#) temperature loggers implanted in the abdomen to measure the core body temperature of the animals every 15 minutes for 42 days. The results of the study are available at [PlosOne](#)



Don't want to implant? Think out box

Did you know that implantation is not the on core temperature data? Many researchers a implantation for short term studies (2-5 days animal digest the loggers for an accurate sh profile, while others use rectal or vaginal me for collecting continuous profiles.

For more information regarding different use loggers check out our [biomed publication se](#) contact us at biomed@star-oddi.com

Published research using our log



We would like to poi extensive collection papers and posters sensors in various types of biomedical research which can be found on our website. To view the research, p the following [link](#).

Data Storage Tags - DSTs

Star-Oddi has been manufacturing and deve since 1993. The data loggers are used for v research studies. You can find our whole pr [here](#). The following sensors are available:

-  Temperature
-  Pressure
-  Conductivity
-  Tilt
-  Magnetic field strength
-  Acoustic receiver
-  Light intensity