

# PRESS RELEASE

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## RaySearch releases micro-RayStation for pre-clinical research

*RaySearch has launched  $\mu$ -RayStation, a version of its innovative treatment planning system specially adapted for research on small animals. Now those engaged in pre-clinical research can have access to the advanced functionality of RayStation, in a system tailored to the specific needs of this field.*

The  $\mu$ -RayStation system is based on the RayStation 5 platform and includes all the tools relevant to pre-clinical research. The tools have been adjusted to handle the higher-resolution images used in small animal research. The system features a Monte Carlo dose engine and a beam model adapted for small animal X-ray irradiators, and supports static beams and arcs collimated by cones apertures, as well as RayStation's powerful Python scripting capabilities.

Other innovative system features include:

- Deformable image registration
- Manual, semi-automatic and automatic image segmentation tools
- Plan evaluation/comparison, including summation of deformed doses
- Script export of plan text files

The dose engine has been extensively validated against an independent Monte Carlo code (EGSnrc). Dose computation for the X-RAD 225Cx has been validated at Institut Cancérologie de l'Ouest (Nantes, France), and the system will be modified to support other small animal X-ray irradiators.  $\mu$ -RayStation will continue to evolve to meet the needs of this pre-clinical research segment. Currently, it is being extended to support proton irradiators using the proton Monte Carlo dose engine provided in RayStation which will also provide distributions of LET and other related quantities.

Johan Löf, CEO of RaySearch, says: "Pre-clinical research plays an important role in the ongoing fight against cancer. We are pleased to support this vital field with a specially adapted version of RayStation, and we will continue to develop it in response to emerging needs in cutting-edge research."

RaySearch will show  $\mu$ -RayStation at the 4th Conference on Small Animal Precision Image-Guided Radiotherapy, in Lisbon, Portugal, March 12-14, 2018. <http://small-animal-rt-conference.com/>

### About RayStation

RayStation integrates all RaySearch's advanced treatment planning solutions into a flexible treatment planning system. It combines unique features such as multi-criteria optimization tools with full support for 4D adaptive radiation therapy. It also includes functionality such as RaySearch's market-leading algorithms for IMRT and VMAT optimization and highly accurate dose engines for photon, electron, proton and carbon ion therapy. The system is built on the latest software architecture and features a graphical user interface with state-of-the-art usability.

### About RaySearch

RaySearch Laboratories AB (publ) is a medical technology company that develops innovative software solutions for improved cancer treatment. RaySearch markets the RayStation treatment planning system to clinics all over the world and distributes products through licensing agreements with leading medical technology companies. The company is also developing the next-generation oncology information system, RayCare\*, which comprises a new product area for RaySearch, and which will be launched in December 2017. RaySearch's software is used by over 2,600 clinics in more than 65 countries. The company was founded in 2000 as a spin-off from Karolinska Institute in Stockholm and the share has been listed on Nasdaq Stockholm since November 2003.

To learn more about RaySearch, go to: [www.raysearchlabs.com](http://www.raysearchlabs.com)

\* Subject to regulatory clearance in some markets.

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