

## **Small animal radiation research platform X-RAD SmART Plus (Precision X-Ray)**

X-RAD SmART Plus is a platform that provides precise tools to study radiation-induced effects in translational research by combining 3D volumetric imaging with highly accurate specimen positioning. This allows precise, conformal image-guided radiation therapy to specific targets in mice, rats and rabbits.

X-RAD SmART cabinet provides complete shielding from all internal x-rays and has high precision electromechanics. A fully functional suite of tools can be used to acquire images, deliver therapy, guide the targeting system and control system calibrations. SmART Plan, developed at Maastric Clinic, combines user-friendly interface with state-of-the-art Monte Carlo calculation algorithms to rapidly devise treatment plans with gold standard accuracy for static beams, arcs, and even non-coplanar treatments across single and multiple isocenters. This enables rapid, accurate treatments to be delivered in any scenario, ranging from simple subcutaneous xenografts all the way to complex metastatic models.

Apart of CT guidance, X-RAD SmART system is equipped with a fully integrated Bioluminescence Imaging Platform, allowing for precise tumor localization for non-palpable tumors. The system can also serve to measure tumor viability across studies.

For use and further information, please contact

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