## Measurement of tumor vascular integrity changes in an orthotopic glioma model in rats induced by antiangiogenic treatment using DCE-MRI

P. PROVENT, M. HILLAIRET DE BOISFERON, Z. KOOB, F. BICHAT, X. TIZON

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**Onco** design

- anaesthesia via a constant flow of isoflurane at 2-3 % delivered by a nose cone.
- Morphological description and tumor volume were assessed with a T2w RARE sequence (TE/TR = 36/3500 ms, FOV = 30x30 mm, slice thickness = 1 mm)
- (Magnevist®, 0.1 mmol/kg or P846 0.025 mmol/kg) using a T1w FLASH sequence (TE/TR/flip angle = 3 ms/50 ms/60°, slice thickness = 1 mm) at a temporal resolution of 12.8 s per image.
- Contrast agent uptake curves were derived from signal enhancement in selected regions of interest (ROI) (i.e in tumor or controlateral tissue, drawn using morphological images) and characterized by
  - → iAUC60: the initial area under the curve was computed by integration between injection time and 60 s after

All procedures with animals were submitted to the Animal Care and Use Committee of Pharmacy and Medicine University (Dijon, France). Principe d'éthique de l'expérimentation animale. Directive n°86/609 CEE du 24 Nov. 1986, Décrêt n°87/848 du 19 Oct. 1987, Arrêté d'Application du 19 Avril 1988. Workman et al. Guidelines for the welfare and use of animals in cancer research. Br J Cancer. 2010;102(11):1555-1577.