

**Innovative coil orientation:**

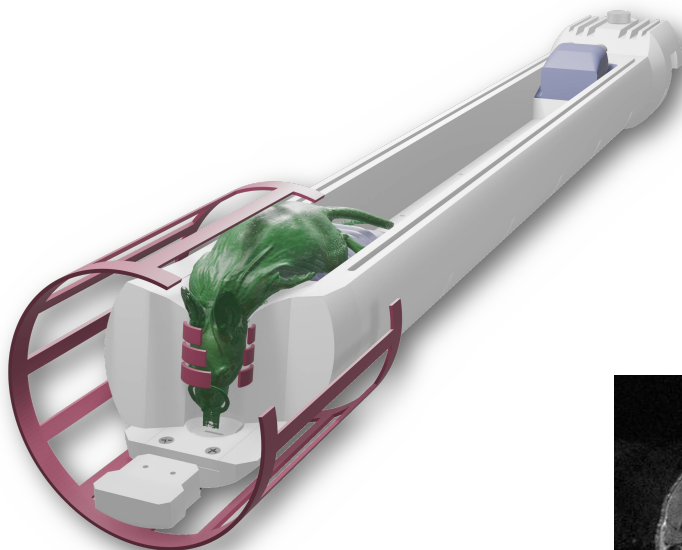
Mouse skull is oriented downwards, allowing for a more efficient current distribution pattern on the RF coil and a higher filling factor, resulting in a remarkable gain in SNR.

**Technical Specifications:**

- Volume transmit-receive coil
- Linear polarization
- Manual tune & match
- Available for  $^1\text{H}$  and any X-nucleus.
- Main Field ( $B_0$ ): 7T, 9.4T, 11.7T (other values available on request)
- Outer diameter: compatible with 60 mm gradients
- Inner diameter: 16 mm
- Active length: 14 mm

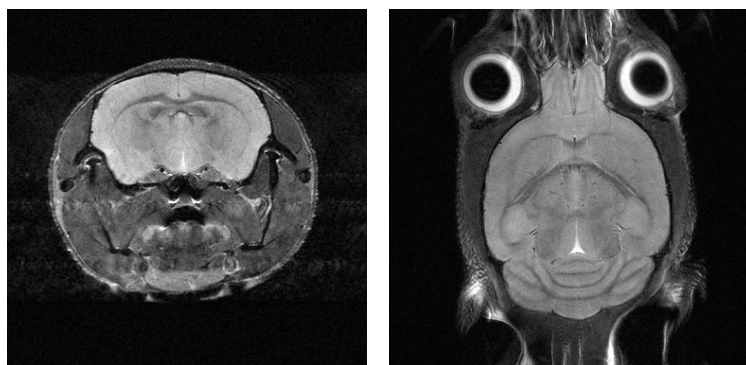
**Uniform sensitivity:**

Unlike conventional surface coils and coil arrays, the BRIC family of coils produces uniform intensity images, eliminating any signal loss in deep regions of the brain.



**Insertable X-nucleus BRIC:**

X-nucleus versions can be operated inside a  $^1\text{H}$  volume coil, transparent at the X-nucleus frequency.

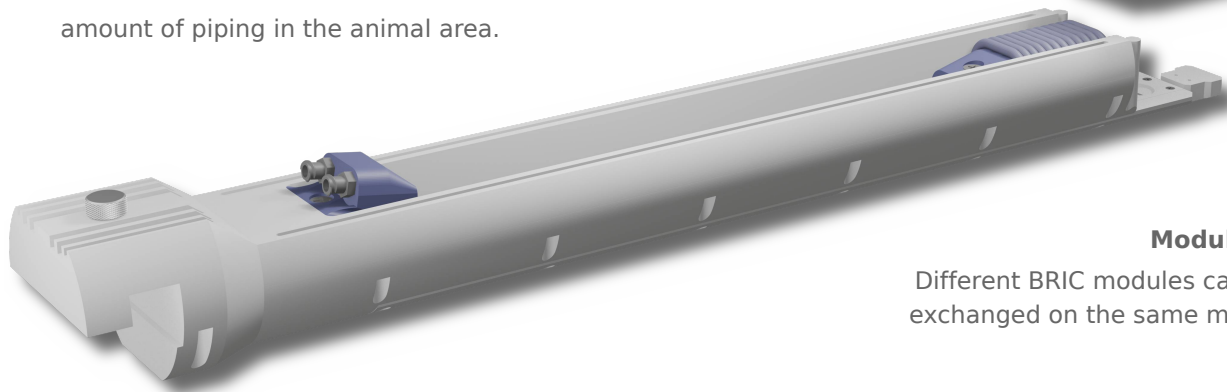


*In-vivo mouse brain at 11.7T: T2-TurboRARE, TE 30 ms, TR 2500 ms, flip angle 180°, FOV 20 x 20 x 0.8 mm , 9 slices. Courtesy of CIC Biomagune (San Sebastián - Spain)*

**BRIC mouse holder:**

Fitted with integrated, hot-water, heating bed, carefully designed to avoid any risk of water leakage inside the magnet bore.

Anaesthesia gas supply and exhaust lines flow through hidden ducts inside the holder enclosure, to minimize the amount of piping in the animal area.

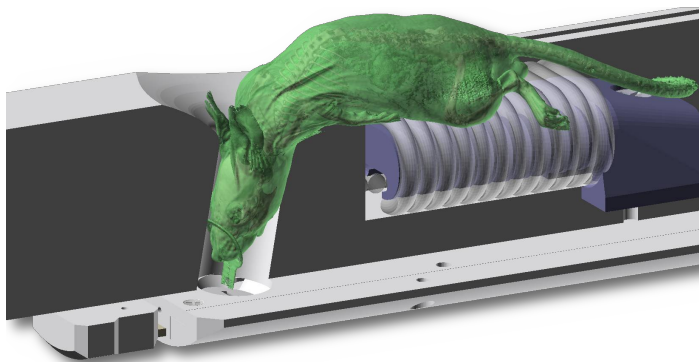


**Modular system:**

Different BRIC modules can be quickly exchanged on the same mouse holder.

**Compatible with 60 mm gradients:**

The BRIC enclosure has been designed from scratch to comfortably fit inside a narrow bore gradient set (60 mm inner diameter).

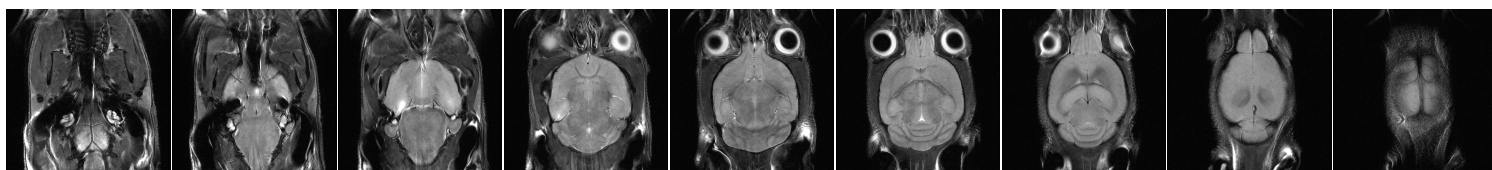


**Animal comfort:**

No ear pins are used to fix the mouse head in the imaging position, increasing animal comfort and safety.

**Quick and simple animal preparation:**

The mouse head is fixed in place by means of a flexible tooth-bar that softly pulls the head into the imaging position. This sliding mechanism is fitted with an adjustable end-stop allowing a quick and repeatable animal positioning.



*In-vivo mouse brain at 11.7T: T2-TurboRARE, TE 30 ms, TR 2500 ms, flip angle 180°, FOV 20 x 20 x 0.8 mm , 9 slices, Matrix 512x512x9, Voxel size 39 x 39 x 800 um, RARE factor = 8, Averages = 5, Acquisition time: 10min. Courtesy of CIC Biomagune (San Sebastián - Spain)*