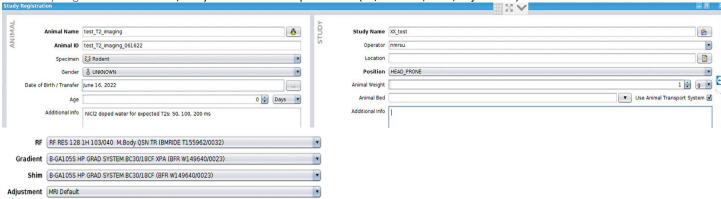
Standard Operating Procedure (SOP) Study Initiation Protocol

- 1. Start Paravision 360.2.0.pl ("PV" if not open already, by double-clicking desktop icon)
- 2. Insert animal/sample in cradle (centered, close to mouthpiece)- adjust positioning, then select "MRI"
- 3. Create New Study: File > New > Study...



• Study Registration: fill animal/study data & check MRI parameters (RF, Gradient, Shim, Adjustment)



4. Start Exam (Create > Exam)

Palette>Explorer>Scan Programs & Protocols → Adjust Object, Region, Application as needed (e.g., Mouse>Head>X).

Any scan instruction from this menu can be run by dragging it to the Examination window (white square in middle) → 1st: Localizer rograms / Protocols V Palette × Workspace ... MRI Acq/Rec... Viewing Geometry Explorer ▼ 7 Region Head . 2 4 4 Scan Programs / Protocols Application Anatomy Object Mouse MRI (125 MHz, B-GA1055 HP GRAD SYSTEM BC30 Ref Instruction Name MRI (125 MHz, B

1 Localizer

1 Localizer

PD_T2_MSME

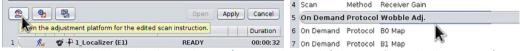
SW_FLASH

T1_FLASH

T1_FLASH

T1_FLASH_30 Region Head multi_slice Application Anato 1_Localizer Mouse / Head / Anatomy / 1_Localizer MRI (12 Anato RI (12 Andicomy
1_Lo Angiography
1_Lo Diffusion
PD_T Perfusion
SW_ Relaxometry
T1_F Spectroscopy
T1_F fMRI
T1 F ASH 3D ISO T1 FLASH 3D T1_MDEFT T1_RARE T1_RARE_Inv_Rec T2_RARE_Inv_Rec

Tuning & matching: before scan acquisition! "Open the adjustment platform ..." (icon on the left). Double click 'Wobble Adj' > Setup



o Wobble can be observed in Acq/Reco Display, goal: fall at zero (manual adjustment of green and yellow rods at the back of the MRI: before → after). Once adjusted, select Stop. Then select Start (wait for green check), then Apply > Back...



5. Localizer > Continue (Status will change from Scheduled → Adjusting → Scanning → Succeeded... once done, it will show in display)



• For additional planning, we can Duplicate Instruction, modify Slice Package (e.g., from 3 to 1, then change number of slices/orientations...)

o Position and orientation can also be manually modified (moved, rotated) in the display menu



- 6. Imaging: see specific SOP for more details
- 7. Back-up & Export of image data (automatically in the large storage drive)
 - Additional options to save as raw Bruker files or DICOM or Nifti via Palette > Explorer >right click>'Export to...'Topspin'/'Dicom'/'Nifti'....