

Supplementary Figure 4. Photographs of the ratCAVE setup. (a) Photograph of the full system showing arena, projector, mirror, cameras (our system uses twelve cameras, arranged about the recording chamber and above the arena; only five (shown with blue lighted rings, normally turned off) are visible here). (b) Close-up on the projector, mirror, and cameras. (c) Close-up on the arena showing retro-reflective markers attached; the increased brightness of the markers is created in the photo by the camera's flash, and is brightened during VR sessions by the infra-red lighting of the tracking cameras. This increased brightness is beyond the visual spectrum of rodent vision.