



**Figure 1a**

Comparison of the thresholded statistic maps from our reanalysis with the main figures from each of the three publications. Left: For ds000001 data, thresholded T-statistic images contrasting the parametric modulation of pumps of reward balloons versus the parametric modulation of the control balloon; beneath, a sagittal slice taken from Figure 3 in Schonberg et al (2012). Middle: For ds000109, thresholded T-statistic maps of the false belief vs false photo contrast; beneath, a midsagittal render from Moran et al (2012). Right: For ds000120, thresholded F-statistic images of the main effect of time contrast; beneath, a midsagittal render from Figure 3 in Padmanabhan et al. (2011). Note that for ds000109 and ds000120 the publication's figures are renderings onto the cortical surface while our results are slice views. While each major activation area found in the original study exists in the reanalyses, there is substantial variation between each reanalysis.