



Proskurin, Manakov and Karpova, Figure 4 - figure supplement 1 | Modulation of ACC activity is best explained by prevalence in recent (within tens of trials) past, robust across analysis windows and animals. a. Explained variance in neural activity associated with RRL sequence execution – for models without context as a parameter – as a function of the number of trials in recent past used to estimate local RRL sequence prevalence. **b.** Explained variance in neural activity associated with RRL sequence execution for models that use local sequence prevalence in recent past (Past) or in the equivalent upcoming period (Future). **c.** Fraction of all recorded ACC units displaying a significant modulation by sequence prevalence for each of the five analysis windows. **d.** Explained variance of A32D neural activity during sequence execution in 3 animals. Ensemble size: 16 (an 1), 73 (an 2), 128 (an 3)