







































Lingering Questions / Talk Outline

- How do you independently summarize groups of voxels?
- How important is multiple testing correction in fMRI?
- How reliable are the results from fMRI studies?













































Study	Number of Significant Voxels					
Study			t			Sm.Var t
	RFT	Bonf.	Hoch.	Šidák	Perm.	Perm.
Verbal Fluency	0	0	0	0	0	0
Location Switching					158	354
Task Switching					2241	3447
Faces: Main Effect	127	371	372	379	917	4088
Faces: Interaction	0	0	0	0	0	0
Item Recognition	5	5	4	4	58	378
Visual Motion	626	1260	1269	1281	1480	4064
Emotional Pictures	0	0	0	0	0	7
Pain: Warning	127	116	116	118	221	347
Pain: Anticipation	74	55	55	55	182	402
Pain: Pain	387	349	350	353	732	1300
			Ni	chols ar	ıd Hayas	saka, 2003

30						
Prevalence						
Human Brain Mapping	14/57	25%				
NeuroImage	67/260	26%				
Cerebral Cortex	26/80	32%				
JoCN	26/68	38%				
SCAN	10/25	40%				









Bennett CM, Wolford GL, and Miller MB. (2009). The principled control of false positives in neuroimaging. *Social Cognitive and Affective Neuroscience*, 4, 417-422.

Bennett CM, Baird AB, Miller MB, and Wolford GL. (in press). Neural Correlates of Interspecies Perspective Taking in the Post-Mortem Atlantic Salmon: An Argument For Proper Multiple Comparisons Correction. *Journal of Serendipitous and Unexpected Results.*

































Literature Review

Mean Overlap (26 papers) = 0.29(Dice overlap = 0.45, Jaccard overlap = 0.29)

Mean ICC (15 papers) = 0.47

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