False discovery rate procedures for discrete tests: analysis of the data from the Wellcome Trust Sanger Institute Mouse Genetics Project

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Notations:

- Female: $n_{..1}$

	KO	WT	
1	n111	n121	n1.1
0	n211	n221	n2.1
	n.11	n.21	n..1

- Male: $n_{..2}$

	KO	WT	
1	n112	n122	n1.2
0	n212	n222	n2.2
	n.12	n.22	n..2

Results:

Outcome	main_effect_size	main_effect_rej	interaction_size	interaction_rej
Number.Of.Thoracic.Vertebrae	469	4	1	0
Number.Of.Lumbar.Vertebrae	473	8	8	2
Number.Of.Pelvic.Vertebrae	473	4	4	0
Number.Of.Caudal.Vertebrae	473	8	7	0
Transitional.Vertebrae	473	16	13	0
Shape.Of.Vertebrae	473	2	2	1
Fusion.Of.Vertebrae	467	24	23	0
Maxilla	473	4	3	0
Zygomatic.Bone	469	2	0	0
Number.Of.Cervical.Vertebrae	469	2	0	0
Skull.Shape	473	13	11	0
Number.Of.Ribs.Right	473	3	3	0
Number.Of.Ribs.Left	473	6	4	0
Shape.Of.Ribcage	473	6	6	0
Shape.Of.Ribs	466	3	0	0
Rib.Fusions	1	1	0	0
Scapula	2	2	0	0
Humerus	466	2	0	0
Radius	473	2	1	0

Outcome	main_effect_size	main_effect_rej	interaction_size	interaction_rej
Ulna	473	2	1	0
Pelvis	473	7	6	0
Tibia	466	2	0	0
Fibula	3	3	0	0
Joints	473	2	1	0
Shape.Of.Spine	473	4	4	0
Teeth	473	6	6	0
Mandible	2	2	0	0
Digit.Integrity	473	2	2	0
Kyphosis	473	10	9	0
Lordosis	1	1	0	0
Fusion.Processes	473	27	20	0
Caudal.Processes	8	8	0	0
Thoracic.Processes	467	39	36	0

Outcome	Group	p_main	p_mid_main	p_int	p_mid_int
Number.Of.Lumbar.Vertebrae	MDHR_HET	0.0001444	7.35e-05	0.0166399	0.0083200
Number.Of.Lumbar.Vertebrae	MFPQ_HET	0.0001444	7.35e-05	0.0166399	0.0083200
Shape.Of.Vertebrae	MUDF_HET	0.0001648	8.73e-05	0.0287678	0.0156598

	Female_KO	Female_WT	Male_KO	Male_WT
Y	3	2	0	10
N	4	927	7	912

	Female_KO	Female_WT	Male_KO	Male_WT
Y	3	2	0	10
N	4	927	7	912

	Female_KO	Female_WT	Male_KO	Male_WT
Y	0	31	5	42
N	7	898	2	880