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Progress in Genetic Studies of Pain and Analgesia
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Supplementary Table 2. Features of published gene expression profiling studies of pain and analgesia.

Phenotype	Subject[a]	Injury[b]	Analgesic[c]	Tissue[d]	Timing	Array[e]	Reference[f]
Inflammatory Pain							
	Male, SD Rat	0.25% Carr. at P3	n.a.	s.c.	P60	Custom	(1)
	Male, SD Rat	0.25% Carr. at P3	n.a.	PAG	P60	Custom	(2)
	not reported	2% form. at P3,P21	n.a.	s.c.	2 h	Affy Rat. Neurobio.	(3)
	Male, Wistar Rat	150 μl CFA	n.a.	DRG, s.c.	3-14 d	Atlas Rat 4k	(4)
	Male, SD Rat	4% Carr.	n.a.	DRG, paw	1-24 h	SuperArray GEA	(5)
	Male, SD Rat	10 μl CFA	n.a.	s.c.	2 h-7 d	Affy RAE230	(6)
	Male, SD Rat	2% Carr.	n.a.	s.c.	1-28 d	Affy RAE230	(7)
Neuropathic Pain							
	Male, SD Rat	CCI	n.a.	DRG	7 d	Diff. Display	(8)
	Male, SD Rat	S1/S2 tx	n.a.	s.c.	21 d	Incyte Mouse 1.1	(9)
	Male, SD Rat	Sciatic tx	n.a.	DRG	1-14 d	Affy RGU34A	(10)
	SD Rat	Sciatic tx	n.a.	DRG	2-28 d	Atlas Rat 1.2	(11)
	Male, SD Rat	SNL	n.a.	DRG, s.c.	13 d	Affy RGU34A	(12)
	Male, SD Rat	SNL	n.a.	s.c.	13 d	Affy RGU34A	(13)
	Male, B6 Mouse	Sciatic tx	n.a.	DRG	7 d	Incyte Mouse GEM	(14)
	SD Rat*	SNL	n.a.	DRG	14 d	Affy RGU34A	(15)
	Male, SD Rat	Sciatic tx	n.a.	s.c.	14 d	Atlas Rat 1.2	(16)
	Male, SD Rat	SCI	n.a.	s.c.	28 d	Affy RGA	(17)
	Male, SD Rat	L5 tx, LR	n.a.	s.c.	7-14 d	Affy RAE230A	(18)
	Male, Wistar Rat	CCI	n.a.	DRG, s.c.	3-14 d	Atlas Rat 4k	(4)
	Male, SD Rat	CCI, SNI, SNL	n.a.	s.c.	3-40 d	Affy RGU34A	(19)

Clinical Pain

Human	BPI	n.a.	DRG	?	Affy Hu6800	(20)
Human	Cluster Headache	n.a.	Blood	n.a.	Affy HG-U133	(21)

Analgesia

Male, SD Rat	S1/S2 tx	EA	s.c.	30 min	Incyte Mouse 1.1	(9)
Human	n.a.	Acup.	Blood	1 h	CodeLink 20K	(22)
Human	Post-surgical	ROF	OM	2 d	Affy HG-U133	(23)
Rat	n.a.	EA	Hypothal.	1 h	unknown	(24)
Human	Post-surgical	ROF	OM	2 d	Affy HG-U133	(25)

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[a] SD: Sprague Dawley

[b] BPI: brachial plexus injury (causing DRG avulsion); Carr.: carrageenan; CCI: chronic constriction injury; CFA: complete Freund's adjuvant; form.: formalin; SCI: spinal cord injury (T10 contusion); SNI: spared nerve injury; SNL: spinal nerve ligation; tx: transection; LR: lumbar radiculopathy

[c] Acup.: acupuncture (needle-based); EA: electroacupuncture; ROF: 50 mg rofecoxib

[d] DRG: dorsal root ganglia; Hypothal.: hypothalamus; OM: oral mucosa; PAG: periaqueductal gray; s.c.: spinal cord

[e] Diff. Display: differential display technique

[f] (1) Ren et al. 2005. *Mol. Pain* 1:27; (2) Anseloni et al. 2005. *Neuroscience* 131:635-45; (3) Barr et al. 2005. *Pain* 117:6-18; (4) Rodriguez Parkitna et al. 2006. *J. Physiol. Pharmacol.* 57: 401-14; (5) Yang et al. 2007. *J. Neurochem.* 103: 1628-43; (6) Geranton et al. 2007. *J. Neurosci.* 27: 6163-73; (7) Yukhananov et al. 2008. *BMC Neurosci.* 9: 32; (8) Kim et al. 2001. *Neuroreport* 12: 3401-5; (9) Ko et al. 2002. *J. Biochem. Mol. Biol.* 35: 420-7; (10) Costigan et al. 2002. *BMC Neurosci.* 3: 16; (11) Xiao et al. 2002. *Proc. Natl. Acad. Sci. U.S.A.* 99: 8360-5; (12) Wang et al. 2002. *Neuroscience* 114: 529-46; (13) Sun et al. 2002. *BMC Neurosci.* 3: 11; (14) Bonilla et al. 2002. *J. Neurosci.* 22: 1303-15; (15) Valder et al. 2003. *J. Neurochem.* 87: 560-73; (16) Yang et al. 2004. *Eur. J. Neurosci.* 19: 871-83; (17) Nesic et al. 2005. *J. Neurochem.* 95: 998-1014; (18) LaCroix-Fralish et al. 2006. *Anesthesiology* 104: 1283-92; (19) Griffin et al. 2007. *J. Neurosci.* 27: 8699-708; (20) Rabert et al. 2004. *J. Clin. Neurosci.* 11: 289-99; (21) Sjostrand et al. 2006. *Headache* 46: 1518-34; (22) Chae et al. 2006. *J. Physiol. Sci.* 56: 425-31; (23) Wang et al. 2006. *Clin. Pharmacol. Ther.* 79: 303-15; (24) Gao et al. 2007. *Am. J. Chin. Med.* 35: 767-78; (25) Wang et al. 2007. *Pain* 128: 136-47.

*Two substrains of Sprague Dawley rat were used; Harlan and Holtzman.