Appendix A

List of the full-text screened articles that were excluded from the systematic review.

Placebo articles:	Reason for exclusion (numbers according to the selection criteria)
Atlas LY, Whittington RA, Lindquist MA, Wielgosz J, Sonty N, Wager TD. Dissociable influences of opiates and expectations on pain. Journal of Neuroscience 2012;32:8053-8064.	4
Atlas LY, Wielgosz J, Whittington RA, Wager TD. Specifying the non-specific factors underlying opioid analgesia: expectancy, attention, and affect. Psychopharmacology 2014;231:813-823.	4
Benedetti F. Inducing placebo respiratory depressant responses in humans via opioid receptors. European Journal of Neuroscience 1999;11:625-631.	1
Benedetti F, Amanzio M, Baldi S, Casadio C, Cavallo A, Mancuso M, Ruffini E, Oliaro A, Maggi, G. The specific effects of prior opioid exposure on placebo analgesia and placebo respiratory depression. Pain 1998;75:313-319.	4
Benedetti F, Amanzio M, Thoen W. Disruption of opioid-induced placebo responses by activation of cholecystokinin type-2 receptors. Psychopharmacology 2011;213:791-797.	4
Benedetti F, Thoen W, Blanchard C, Vighetti S, Arduino C. Pain as a reward: changing the meaning of pain from negative to positive co-activates opioid and cannabinoid systems. Pain 2013;154:361-367.	2 NB: No placebo treatment. The study investigated the effect of positive and negative verbal suggestions on pain tolerance.
Benedetti F, Durando J, Vighetti S. Nocebo and placebo modulation of hypobaric hypoxia headache involves the cyclooxygenase-prostaglandins pathway. Pain 2014;155:921-928.	4
Benedetti F, Pollo A, Colloca L. Opioid-mediated placebo responses boost pain endurance and physical performance: is it doping in sport competitions? J Neurosci 2007;27:11934-11939.	1
DosSantos MF, Martikainen IK, Nascimento TD, Love TM, DeBoer MD, Schambra HM, Bikson M, Zubieta JK, DaSilva AF. Building up analgesia in humans via the endogenous μ-opioid system by combining placebo and active tDCS: A preliminary report. PLoS One 2014;9:e102350.	2 NB: No comparison between a pain only and a pain plus placebo condition during PET scan.
Ellingsen DM, Wessberg J, Eikemo M, Liljencrantz J, Endestad T, Olausson H, Leknes S. Placebo improves pleasure and pain through opposite modulation of sensory processing. Proc Natl Acad Sci 2013;110:17993-17998.	4
Harris RE, Zubieta JK, Scott DJ, Napadow V, Gracely RH, Clauw DJ. Traditional Chinese acupuncture and placebo (sham) acupuncture are differentiated by their effects on mu-opioid receptors (MORs). Neuroimage 2009;47:1077-1085.	1 NB: the study was excluded because the primary aim of the study was to investigate the involvement of the

	endogenous opioid system in acupuncture and the placebo condition was used as control condition.
Hersh EV, Ochs H, Quinn P, MacAfee K, Cooper SA, Barasch A. Narcotic receptor blockade and its effect on the analgesic response to placebo and ibuprofen after oral surgery. Oral Surg Oral Med Oral Pathol 1993;75:539-546.	2 NB: No natural history condition.
Jarcho JM, Feier NA, Labus JS, Naliboff B, Smith SR, Hong JY, Colloca L, Tillisch K, Mandelkern MA, Mayer EA, London ED. Placebo analgesia: Self-report measures and preliminary evidence of cortical dopamine release associated with placebo response. Neuroimage Clin 2016;10:107-114.	3
Levine JD, Gordon NC, Fields HL. The mechanism of placebo analgesia. Lancet 1978;2:654-657.	2 NB: No natural history condition.
Linnman C, Catana C, Petkov MP, Chonde DB, Becerra L, Hooker J, Borsook D. Molecular and functional PET-fMRI measures of placebo analgesia in episodic migraine: Preliminary findings. Neuroimage Clin 2018;17:680-690.	2 NB: No statistically significant placebo effects when healthy subjects and migraine patients were treated as separate groups [personal communication with the first author].
Martikainen IK, Hagelberg N, Mansikka H, Hietala J, Nagren K, Scheinin H, Pertovaara A. Association of striatal dopamine D2/D3 receptor binding potential with pain but not tactile sensitivity or placebo analgesia. Neurosci Lett 2005;376:149-153.	2 NB: No comparison between a pain only and a pain plus placebo condition during PET scan.
Pecina M, Azhar H, Love TM, Lu T, Fredrickson BL, Stohler CS, Zubieta JK. Personality trait predictors of placebo analgesia and neurobiological correlates. Neuropsychopharmacology 2013;38:639-646.	4 NB: The study investigated the relationship between personality traits and the placebo effect and the biological correlates.
Pecina M, Stohler CS, Zubieta JK. Neurobiology of placebo effects: expectations or learning? Soc Cogn Affect Neurosci 2014;9:1013-1021.	4 NB: The study investigated expectations of analgesia during a placebo intervention but in the absence of actual pain.
Petrovic P, Kalso E, Petersson KM, Andersson J, Fransson P, Ingvar M. A prefrontal non-opioid mechanism in placebo analgesia. Pain 2010;150:59-65.	5
Roelofs J, ter Riet G, Peters ML, Kessels AG, Reulen JP, Menheere PP. Expectations of analgesia do not affect spinal nociceptive R-III reflex activity: an experimental study into the mechanism of placebo-induced analgesia. Pain 2000;89:75-80.	3

Schoell ED, Bingel U, Eippert F, Yacubian J, Christiansen K, Andresen H, May A, Buechel C. The effect of opioid receptor blockade on the neural processing of thermal stimuli. PLoS One 2010;5:e12344.	1
Schweinhardt P, Seminowicz DA, Jaeger E, Duncan GH, Bushnell MC. The anatomy of the mesolimbic reward system: a link between personality and the placebo analgesic response. J Neurosci 2009;29:4882-4887.	4 NB: The study investigated the relationship between dopamine-related personality traits and placebo effects.
Scott DJ, Stohler CS, Egnatuk CM, Wang H, Koeppe RA, Zubieta JK. Individual differences in reward responding explain placebo-induced expectations and effects. Neuron 2007;55:325-336.	4 NB: The study investigated expectations of analgesia during a placebo intervention but in the absence of actual pain.
Zubieta JK, Yau WY, Scott DJ, Stohler CS. Belief or Need? Accounting for individual variations in the neurochemistry of the placebo effect. Brain Behav Immun 2006;20:15-26.	5
Zunhammer M, Gerardi M, Bingel U. The effect of dopamine on conditioned placebo analgesia in healthy individuals: a double-blind randomized trial. Psychopharmacology 2018;235:2587-2595.	3
Nocebo articles:	
Benedetti F, Durando J, Vighetti S. Nocebo and placebo modulation of hypobaric hypoxia headache involves the cyclooxygenase-prostaglandins pathway. Pain 2014;155:921-928.	4
Haines DR, Wang M, Campion PD, Alladin W. Are patients with chronic widespread pain and/or fatigue nocebo responders? An evaluation employing a randomised crossover trial of proglumide. Pain clinic 2005;17:1-13.	1
Scott DJ. Stohler CS, Egnatuk CM, Wang H, Koeppe RA, Zubieta JK. Placebo and nocebo effects are defined by opposite opioid and dopaminergic responses. Archives of General Psychiatry 2008;65:220-231.	2