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DOI: 10.1016/s0028-3908(98)00033-1
Neuropharmacology, 1998, 37, 407-19.

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- 1195 Intelligence and emotion. **2000**, 23, 210-211
- 1194 Reinforcement, emotion, and consciousness. **2000**, 23, 202-204
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- 1190 Emotions and reward [but no arousal?]. **2000**, 23, 217-218
- 1189 Is reward an emotion?. **2000**, 23, 192-192 21
- 1188 Conceptualizing motivation and emotion. **2000**, 23, 195-196 5
- 1187 The amygdala [responsible for memories of reward as well as punishment?]. **2000**, 23, 213-214

1186	On the behavioural interpretation of neurophysiological observation. 2000 , 23, 209-209	7
1185	Reward: Wanted a better definition. 2000 , 23, 208-208	3
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1183	Emotion, representation, and consciousness. 2000 , 23, 204-205	1
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1179	Slow cortical DC-potential responses to sweet and bitter tastes in humans. 2000 , 71, 581-7	7
1178	Reward learning: Reinforcement, incentives, and expectations. 2000 , 40, 223-278	75
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1176	Dopamine D2 receptors in the insular cortex and the personality trait of novelty seeking. 2001 , 13, 891-5	148
1175	Modeling functions of striatal dopamine modulation in learning and planning. 2001 , 103, 65-85	75
1174	Elevation of prefrontal acetylcholine is related to the extinction of learned behavior in rats. 2001 , 306, 33-6	14
1173	Extinction training regulates tyrosine hydroxylase during withdrawal from cocaine self-administration. 2001 , 21, RC137	49
1172	Limbic-cortical-ventral striatal activation during retrieval of a discrete cocaine-associated stimulus: a cellular imaging study with gamma protein kinase C expression. 2001 , 21, 2526-35	61
1171	The role of the nucleus accumbens in instrumental conditioning: Evidence of a functional dissociation between accumbens core and shell. 2001 , 21, 3251-60	445
1170	Incentive sensitization by previous amphetamine exposure: increased cue-triggered "wanting" for sucrose reward. 2001 , 21, 7831-40	361
1169	Distinct changes in cortical acetylcholine and noradrenaline efflux during contingent and noncontingent performance of a visual attentional task. 2001 , 21, 4908-14	229

1168	Lesions of the basolateral amygdala disrupt selective aspects of reinforcer representation in rats. 2001 , 21, 9018-26	168
1167	Cocaine seeking by rats is a goal-directed action.. 2001 , 115, 394-402	128
1166	The role of withdrawal in heroin addiction: enhances reward or promotes avoidance?. 2001 , 4, 943-7	171
1165	A concept of welfare based on reward evaluating mechanisms in the brain: anticipatory behaviour as an indicator for the state of reward systems. 2001 , 72, 145-171	282
1164	From habits to actions: dorsolateral striatum lesions alter the content of learning.	1
1163	Learning and memory mechanisms involved in compulsive drug use and relapse. 2003 , 79, 75-101	15
1162	Hormonal Modulation of Central Motivational States. 2002 , 633-657	
1161	Effect of cocaine and sucrose withdrawal period on extinction behavior, cue-induced reinstatement, and protein levels of the dopamine transporter and tyrosine hydroxylase in limbic and cortical areas in rats. 2002 , 13, 379-88	97
1160	Orbitofrontal lesions in rats impair reversal but not acquisition of go, no-go odor discriminations. 2002 , 13, 885-90	266
1159	Effects of selective excitotoxic lesions of the nucleus accumbens core, anterior cingulate cortex, and central nucleus of the amygdala on autoshaping performance in rats.. 2002 , 116, 553-567	157
1158	Drugs of Abuse. 2002 ,	
1157	Conditioned taste aversion using four different means to deliver sucrose to rats. 2002 , 75, 387-96	14
1156	Reward, motivation, and reinforcement learning. 2002 , 36, 285-98	626
1155	Acquisition of a novel behavior induces higher levels of Arc mRNA than does overtrained performance. 2002 , 110, 617-26	103
1154	Appetitive instrumental learning requires coincident activation of NMDA and dopamine D1 receptors within the medial prefrontal cortex. 2002 , 22, 1063-71	158
1153	Motivational responses to natural and drug rewards in rats with neonatal ventral hippocampal lesions: an animal model of dual diagnosis schizophrenia. 2002 , 27, 889-905	92
1152	TD models of reward predictive responses in dopamine neurons. 2002 , 15, 523-33	127
1151	Emotion and motivation: the role of the amygdala, ventral striatum, and prefrontal cortex. 2002 , 26, 321-52	1667

1150	Operant responding for a visual reinforcer in rats is enhanced by noncontingent nicotine: implications for nicotine self-administration and reinforcement. 2003 , 169, 68-76	252
1149	Lesions of mediodorsal thalamus and anterior thalamic nuclei produce dissociable effects on instrumental conditioning in rats. 2003 , 18, 1286-94	144
1148	Irrational Wanting and Subrational Liking: How Rudimentary Motivational and Affective Processes Shape Preferences and Choices. 2003 , 24, 657-680	46
1147	Effects of acetylcholine antagonist injection into the prefrontal cortex on the progress of lever-press extinction in rats. 2003 , 351, 95-95	
1146	Addiction. 2003 , 54, 25-53	1319
1145	Effects of acetylcholine antagonist injection into the prefrontal cortex on the progress of lever-press extinction in rats. 2003 , 351, 95-8	17
1144	Learning-related changes in response patterns of prefrontal neurons during instrumental conditioning. 2003 , 146, 77-88	66
1143	The role of prelimbic cortex in instrumental conditioning. 2003 , 146, 145-57	320
1142	The role of the prefrontal cortex in object-place learning: a test of the attribute specificity model. 2003 , 146, 159-65	56
1141	Inactivation of the infralimbic prefrontal cortex reinstates goal-directed responding in overtrained rats. 2003 , 146, 167-74	319
1140	Pleasures of the brain. 2003 , 52, 106-28	451
1139	Immunohistochemical assessment of mesotelencephalic dopamine activity during the acquisition and expression of Pavlovian versus instrumental behaviours. 2003 , 117, 755-67	29
1138	The contribution of the amygdala, nucleus accumbens, and prefrontal cortex to emotion and motivated behaviour. 2003 , 1250, 347-370	36
1137	Early maternal availability and prefrontal correlates of reward-related memory. 2003 , 80, 97-104	13
1136	Coordination of actions and habits in the medial prefrontal cortex of rats. 2003 , 13, 400-8	550
1135	Choosing Delayed Rewards. 2003 , 183-218	10
1134	Behavioral measures of alcohol self-administration and intake control: rodent models. 2003 , 54, 107-43	72
1133	Helplessness and escape performance: Glutamate-adenosine interactions in the frontal cortex.. 2003 , 117, 123-135	23

1132	Lesions of the orbitofrontal but not medial prefrontal cortex disrupt conditioned reinforcement in primates. 2003 , 23, 11189-201	110
1131	Dissociable contributions of the orbitofrontal and infralimbic cortex to pavlovian autoshaping and discrimination reversal learning: further evidence for the functional heterogeneity of the rodent frontal cortex. 2003 , 23, 8771-80	482
1130	The effect of lesions of the basolateral amygdala on instrumental conditioning. 2003 , 23, 666-75	268
1129	Pleasure, Unfelt Affect, and Irrational Desire. 2004 , 243-262	9
1128	Neuronal representation of response-outcome in the primate prefrontal cortex. 2004 , 14, 47-55	43
1127	A single infusion of brain-derived neurotrophic factor into the ventral tegmental area induces long-lasting potentiation of cocaine seeking after withdrawal. 2004 , 24, 1604-11	244
1126	Lesions of dorsolateral striatum preserve outcome expectancy but disrupt habit formation in instrumental learning. 2004 , 19, 181-9	870
1125	Reward expectation, orientation of attention and locus coeruleus-medial frontal cortex interplay during learning. 2004 , 20, 791-802	218
1124	Comparison of learning-related neuronal activity in the dorsal premotor cortex and striatum. 2004 , 19, 721-40	149
1123	Prefrontal responses to drug cues: a neurocognitive analysis. 2004 , 7, 211-4	323
1122	Sensorimotor gating abnormalities in young males with fragile X syndrome and Fmr1-knockout mice. 2004 , 9, 417-25	225
1121	Neural and psychological mechanisms underlying appetitive learning: links to drug addiction. 2004 , 14, 156-62	170
1120	Cognition, motivation, emotion and action: a dynamic and vulnerable interdependence. 2004 , 86, 173-204	70
1119	Limbic corticostriatal systems and delayed reinforcement. 2004 , 1021, 33-50	214
1118	Cocaine seeking over extended withdrawal periods in rats: different time courses of responding induced by cocaine cues versus cocaine priming over the first 6 months. 2004 , 176, 101-8	120
1117	The neural circuitry of reward and its relevance to psychiatric disorders. 2004 , 6, 391-9	95
1116	Prefrontal executive and cognitive functions in rodents: neural and neurochemical substrates. 2004 , 28, 771-84	1017
1115	Dissociable roles of ventral and dorsal striatum in instrumental conditioning. 2004 , 304, 452-4	1671

1114 Emotion & Motivation. **2004**, 22, e251-e449

1113	Action sets and decisions in the medial frontal cortex. 2004 , 8, 410-7	821
1112	Motivation concepts in behavioral neuroscience. 2004 , 81, 179-209	873
1111	Learning a new behavioral strategy in the shuttle-box increases prefrontal dopamine. 2004 , 126, 21-9	67
1110	Instrumental responding for rewards is associated with enhanced neuronal response in subcortical reward systems. 2004 , 21, 984-90	104
1109	Different representation of forthcoming reward in nucleus accumbens and medial prefrontal cortex. 2004 , 15, 721-6	28
1108	Attenuated dopamine efflux in the rat nucleus accumbens during successive negative contrast. 2004 , 118, 869-73	39
1107	c-Fos after incentive shifts: expectancy, incredulity, and recovery. 2005 , 119, 366-87	32
1106	Amount of training effects in representation-mediated food aversion learning: no evidence of a role for associability changes. 2005 , 33, 464-78	26
1105	Involvement of NMDA and AMPA/KA receptors in the nucleus accumbens core in instrumental learning guided by reward-predictive cues. 2005 , 21, 1689-702	11
1104	'Compulsive' lever pressing in rats is enhanced following lesions to the orbital cortex, but not to the basolateral nucleus of the amygdala or to the dorsal medial prefrontal cortex. 2005 , 21, 2252-62	54
1103	The role of the dorsomedial striatum in instrumental conditioning. 2005 , 22, 513-23	733
1102	Central amygdala ERK signaling pathway is critical to incubation of cocaine craving. 2005 , 8, 212-9	377
1101	Medial prefrontal cortex determines how stressor controllability affects behavior and dorsal raphe nucleus. 2005 , 8, 365-71	737
1100	Uncertainty-based competition between prefrontal and dorsolateral striatal systems for behavioral control. 2005 , 8, 1704-11	1688
1099	Hippocampal lesions facilitate instrumental learning with delayed reinforcement but induce impulsive choice in rats. 2005 , 6, 36	96
1098	Nucleus accumbens core lesions retard instrumental learning and performance with delayed reinforcement in the rat. 2005 , 6, 9	67
1097	Differential effects of clozapine and haloperidol on interval timing in the supraseconds range. 2005 , 182, 232-44	81

1096	Prefrontal cortical cell firing during maintenance, extinction, and reinstatement of goal-directed behavior for natural reward. 2005 , 56, 74-83	38
1095	Theta frequency stimulation up-regulates the synaptic strength of the pathway from CA1 to subiculum region of hippocampus. 2005 , 102, 232-7	28
1094	An integrate-and-fire model of prefrontal cortex neuronal activity during performance of goal-directed decision making. 2005 , 15, 1964-81	33
1093	Lesions of medial prefrontal cortex disrupt the acquisition but not the expression of goal-directed learning. 2005 , 25, 7763-70	210
1092	Consolidation and reconsolidation of incentive learning in the amygdala. 2005 , 25, 830-5	95
1091	Extradural compression of the sensorimotor cortex delays the acquisition but not the recalling of a lever-pressing task in Wistar rats. 2005 , 164, 250-65	9
1090	Cue reactivity in nicotine and tobacco dependence: a "multiple-action" model of nicotine as a primary reinforcement and as an enhancer of the effects of smoking-associated stimuli. 2005 , 48, 74-97	105
1089	Neural bases of food-seeking: affect, arousal and reward in corticostriatolimbic circuits. 2005 , 86, 717-30	246
1088	Stimulant-induced adaptations in neostriatal matrix and striosome systems: transiting from instrumental responding to habitual behavior in drug addiction. 2005 , 83, 93-103	84
1087	Reinforced spatial alternation as an animal model of obsessive-compulsive disorder (OCD): investigation of 5-HT _{2C} and 5-HT _{1D} receptor involvement in OCD pathophysiology. 2005 , 57, 1176-85	66
1086	Anatomy of a decision: striato-orbitofrontal interactions in reinforcement learning, decision making, and reversal. 2006 , 113, 300-326	442
1085	Functions of frontostriatal systems in cognition: comparative neuropsychopharmacological studies in rats, monkeys and humans. 2006 , 73, 19-38	377
1084	Learning-dependent activation of Fra-1: involvement of ventral hippocampus and SNc/VTA complex in learning and habit formation. 2006 , 68, 233-48	10
1083	From Malthus to motive: how the HPA axis engineers the phenotype, yoking needs to wants. 2006 , 79, 247-340	104
1082	Dopamine scales performance in the absence of new learning. 2006 , 51, 541-7	117
1081	Fos immunolabelling evidence for brain regions involved in the Pavlovian degraded contingency effect and in its disruption by atropine. <i>Neuropharmacology</i> , 2006 , 51, 102-11	5.5 4
1080	A normative perspective on motivation. 2006 , 10, 375-81	234
1079	Chapter 4.2 Microdialysis of dopamine and norepinephrine during conditioning and operant behaviour. 2006 , 317-350	1

1078	Hierarchical schemas and goals in the control of sequential behavior. 2006 , 113, 887-916; discussion 917-31	188
1077	Such stuff as habits are made on: A reply to Cooper and Shallice (2006).. 2006 , 113, 917-927	43
1076	Relaxation and Muscular Tension: A Biobehavioristic Explanation.. 2006 , 13, 131-153	
1075	The role of the basal ganglia in habit formation. 2006 , 7, 464-76	1634
1074	The misbehavior of value and the discipline of the will. 2006 , 19, 1153-60	257
1073	Neural systems implicated in delayed and probabilistic reinforcement. 2006 , 19, 1277-301	245
1072	Both motivational and training factors affect response conflict choice performance in rats. 2006 , 19, 1192-202	9
1071	Behavioral theories and the neurophysiology of reward. 2006 , 57, 87-115	1185
1070	A novel rat medial prefrontal cortical slice preparation to investigate synaptic transmission from amygdala to layer V prelimbic pyramidal neurons. 2006 , 151, 148-58	24
1069	Contrasting effects of reward expectation on sensory and motor memories in primate prefrontal neurons. 2006 , 16, 1002-15	32
1068	Basal ganglia orient eyes to reward. 2006 , 95, 567-84	306
1067	Increased vulnerability to nicotine self-administration and relapse in alcohol-naive offspring of rats selectively bred for high alcohol intake. 2006 , 26, 1872-9	110
1066	Individual differences in dopamine efflux in nucleus accumbens shell and core during instrumental learning. 2006 , 13, 168-77	29
1065	Amphetamine exposure enhances habit formation. 2006 , 26, 3805-12	359
1064	Dorsomedial prefrontal cortex resolves response conflict in rats. 2006 , 26, 5224-9	41
1063	Determining the neural substrates of goal-directed learning in the human brain. 2007 , 27, 4019-26	394
1062	DeltaFosB induction in orbitofrontal cortex mediates tolerance to cocaine-induced cognitive dysfunction. 2007 , 27, 10497-507	112
1061	A selective role for neuronal activity regulated pentraxin in the processing of sensory-specific incentive value. 2007 , 27, 13430-5	31

1060	Neural coding of reward magnitude in the orbitofrontal cortex of the rat during a five-odor olfactory discrimination task. 2007 , 14, 446-56	55
1059	Impulsivity, neural deficits, and the addictions: the "oops" factor in relapse. 2007 , 26 Suppl 1, 25-39	41
1058	Explaining the escalation of drug use in substance dependence: models and appropriate animal laboratory tests. 2007 , 80, 65-119	112
1057	Habit formation and multiple means to goal attainment: repeated retrieval of target means causes inhibited access to competitors. 2007 , 33, 1367-79	57
1056	Bidirectional modulation of goal-directed actions by prefrontal cortical dopamine. 2007 , 17, 2820-7	144
1055	Orbitofrontal cortex mediates outcome encoding in Pavlovian but not instrumental conditioning. 2007 , 27, 4819-25	290
1054	Involvement of the rat prefrontal cortex in a delayed reinforcement operant task. 2007 , 18, 1687-90	7
1053	Expression of fibroblast growth factor-2 and brain-derived neurotrophic factor mRNA in the medial prefrontal cortex and hippocampus after uncontrollable or controllable stress. 2007 , 144, 1219-28	63
1052	Dynamic interplays between memory systems depend on practice: the hippocampus is not always the first to provide solution. 2007 , 150, 743-53	36
1051	Effects of orbitofrontal, infralimbic and prelimbic cortical lesions on serial spatial reversal learning in the rat. 2007 , 179, 219-28	233
1050	Systemic and central amygdala injections of the mGluR2/3 agonist LY379268 attenuate the expression of incubation of sucrose craving in rats. 2007 , 181, 292-6	44
1049	Augmented reinforcer value and accelerated habit formation after repeated amphetamine treatment. 2007 , 17, 532-40	108
1048	Adaptive decision making and value in the anterior cingulate cortex. 2007 , 36 Suppl 2, T142-54	119
1047	The role of the dorsal striatum in reward and decision-making. 2007 , 27, 8161-5	900
1046	Endocannabinoid signaling is critical for habit formation. 2007 , 1, 6	120
1045	Neuroscience of Drugs and Addiction. 2007 , 11-87	4
1044	Direct instrumental conditioning of neural activity using functional magnetic resonance imaging-derived reward feedback. 2007 , 27, 7498-507	114
1043	Impaired associative fear learning in mice with complete loss or haploinsufficiency of AMPA GluR1 receptors. 2007 , 1, 4	23

1042	Selective delay activity in the medial prefrontal cortex of the rat: contribution of sensorimotor information and contingency. 2007 , 98, 303-16	64
1041	A scale-free systems theory of motivation and addiction. 2007 , 31, 1017-45	67
1040	Genetic control of instrumental conditioning by striatopallidal neuron-specific S1P receptor Gpr6. 2007 , 10, 1395-7	69
1039	Inactivation of the prelimbic, but not infralimbic, prefrontal cortex impairs the contextual control of response conflict in rats. 2007 , 25, 559-66	104
1038	The influence of Pavlovian cues on instrumental performance is mediated by CaMKII activity in the striatum. 2007 , 25, 2491-7	26
1037	Integrating hippocampus and striatum in decision-making. 2007 , 17, 692-7	222
1036	Estimating the hidden learning representations. 2007 , 101, 110-7	2
1035	Selective reinstatement of instrumental performance depends on the discriminative stimulus properties of the mediating outcome. 2007 , 35, 43-52	46
1034	Contextual control of choice performance: behavioral, neurobiological, and neurochemical influences. 2007 , 1104, 250-69	30
1033	Reward-related responses in the human striatum. 2007 , 1104, 70-88	519
1032	Still at the choice-point: action selection and initiation in instrumental conditioning. 2007 , 1104, 147-71	121
1031	A computational model of craving and obsession. 2007 , 1104, 324-39	30
1030	Cost, benefit, tonic, phasic: what do response rates tell us about dopamine and motivation?. 2007 , 1104, 357-76	106
1029	The contribution of the medial prefrontal cortex, orbitofrontal cortex, and dorsomedial striatum to behavioral flexibility. 2007 , 1121, 355-75	317
1028	The contribution of orbitofrontal cortex to action selection. 2007 , 1121, 174-92	75
1027	Lights, camembert, action! The role of human orbitofrontal cortex in encoding stimuli, rewards, and choices. 2007 , 1121, 254-72	151
1026	Viral restoration of dopamine signaling to the dorsal striatum restores instrumental conditioning to dopamine-deficient mice. 2007 , 191, 567-78	55
1025	A conflict rat model of cue-induced relapse to cocaine seeking. 2007 , 194, 117-25	73

1024	Medial prefrontal serotonin in the rat is involved in goal-directed behaviour when affect guides decision making. 2007 , 195, 435-49	20
1023	Genetics of dopamine and its contribution to cocaine addiction. 2007 , 37, 119-45	41
1022	Coordinating with the Future: The Anticipatory Nature of Representation. 2008 , 18, 179-225	80
1021	Cortico-limbic-striatal circuits subserving different forms of cost-benefit decision making. 2008 , 8, 375-89	232
1020	Conceptual representations in goal-directed decision making. 2008 , 8, 418-28	9
1019	Reward-guided learning beyond dopamine in the nucleus accumbens: the integrative functions of cortico-basal ganglia networks. 2008 , 28, 1437-48	317
1018	A unified framework for addiction: vulnerabilities in the decision process. 2008 , 31, 415-37; discussion 437-87	350
1017	Impulsivity, compulsivity, and habit: the role of orbitofrontal cortex revisited. 2008 , 63, 253-5	94
1016	On habits and addiction: An associative analysis of compulsive drug seeking. 2008 , 5, 235-245	83
1015	Cognitive Dimension of Operant Learning. 2008 , 173-195	3
1014	Theory of Reward Systems. 2008 , 701-720	1
1013	The Molecular Mechanisms of Reward. 2008 , 193-215	1
1012	The role of NMDA receptors in regulating group II metabotropic glutamate receptor-mediated long-term depression in rat medial prefrontal cortex. <i>Neuropharmacology</i> , 2008 , 54, 1071-8	5.5 16
1011	The cognitive functions of the caudate nucleus. 2008 , 86, 141-55	542
1010	Hierarchical models of behavior and prefrontal function. 2008 , 12, 201-8	342
1009	Impaired instrumental choice in crib-biting horses (<i>Equus caballus</i>). 2008 , 191, 137-40	38
1008	Habits, rituals, and the evaluative brain. 2008 , 31, 359-87	1192
1007	Encyclopedia of Neuroscience. 2008 , 4157-4387	

1006	Evidence for an expectancy-based theory of avoidance behaviour. 2008 , 61, 1803-12	13
1005	Distinct error-correcting and incidental learning of location relative to landmarks and boundaries. 2008 , 105, 5909-14	210
1004	Differential involvement of the basolateral amygdala and mediodorsal thalamus in instrumental action selection. 2008 , 28, 4398-405	141
1003	Calculating consequences: brain systems that encode the causal effects of actions. 2008 , 28, 6750-5	190
1002	Reward-related processing in the human brain: developmental considerations. 2008 , 20, 1191-211	97
1001	The Cognitive Neuroscience of Motivation and Learning. 2008 , 26, 593-620	62
1000	NEUROECONOMICS AND THE ECONOMIC SCIENCES. 2008 , 24, 345-368	37
999	The role of the striatum in aversive learning and aversive prediction errors. 2008 , 363, 3787-800	215
998	Understanding the neural computations of arbitrary visuomotor learning through fMRI and associative learning theory. 2008 , 18, 1485-95	59
997	The control of instrumental action following outcome devaluation in young children aged between 1 and 4 years. 2008 , 137, 39-51	57
996	A limited role for mediodorsal thalamus in devaluation tasks. 2008 , 122, 659-76	22
995	Neural dynamics underlying impaired autonomic and conditioned responses following amygdala and orbitofrontal lesions. 2008 , 122, 1100-25	26
994	Affective and cognitive effects of global deletion of alpha3-containing gamma-aminobutyric acid-A receptors. 2008 , 19, 582-96	20
993	High on habits. 2008 , 2, 208-17	33
992	Reward processing in the human brain. 2009 , 165-184	7
991	Multiple Forms of Value Learning and the Function of Dopamine. 2009 , 367-387	21
990	Overlapping prediction errors in dorsal striatum during instrumental learning with juice and money reward in the human brain. 2009 , 102, 3384-91	87
989	The nucleus accumbens: a switchboard for goal-directed behaviors. 2009 , 4, e5062	82

988	Covert Expectation-of-Reward in Rat Ventral Striatum at Decision Points. 2009 , 3, 1	153
987	Altruistic learning. 2009 , 3, 23	7
986	Evidence of action sequence chunking in goal-directed instrumental conditioning and its dependence on the dorsomedial prefrontal cortex. 2009 , 29, 8280-7	83
985	A role for medial prefrontal dopaminergic innervation in instrumental conditioning. 2009 , 29, 6599-606	69
984	Goal-Directed Behavior Theories. 2009 , 943-949	2
983	From Attention to Goal-Directed Behavior. 2009 ,	3
982	Distinct opioid circuits determine the palatability and the desirability of rewarding events. 2009 , 106, 12512-7	136
981	Balancing risk and reward: a rat model of risky decision making. 2009 , 34, 2208-17	114
980	Hierarchically organized behavior and its neural foundations: a reinforcement learning perspective. 2009 , 113, 262-280	356
979	A Bayesian formulation of behavioral control. 2009 , 113, 314-328	93
978	Associative theories of goal-directed behaviour: a case for animal-human translational models. 2009 , 73, 463-76	302
977	Thinking as the control of imagination: a conceptual framework for goal-directed systems. 2009 , 73, 559-77	126
976	Implications of the multiple-vulnerabilities theory of addiction for craving and relapse. 2009 , 104, 1940-1	8
975	Differential representation of Pavlovian-instrumental transfer by prefrontal cortex subregions and striatum. 2009 , 29, 1461-76	34
974	A specific role for posterior dorsolateral striatum in human habit learning. 2009 , 29, 2225-32	522
973	Transient role of the rat prelimbic cortex in goal-directed behaviour. 2009 , 30, 464-71	83
972	Reinforcement learning in the brain. 2009 , 53, 139-154	368
971	Viral vector approaches to modify gene expression in the brain. 2009 , 185, 1-14	35

970	Neural Basis of Fear Conditioning. 2009 ,	1
969	Dynamic encoding of responses and outcomes by neurons in medial prefrontal cortex. 2009 , 29, 7526-39	60
968	Parallel and interactive learning processes within the basal ganglia: relevance for the understanding of addiction. 2009 , 199, 89-102	408
967	Reward expectation alters learning and memory: the impact of the amygdala on appetitive-driven behaviors. 2009 , 198, 1-12	43
966	The integrative function of the basal ganglia in instrumental conditioning. 2009 , 199, 43-52	254
965	Stimulus-response and response-outcome learning mechanisms in the striatum. 2009 , 199, 129-40	40
964	A common role of insula in feelings, empathy and uncertainty. 2009 , 13, 334-40	942
963	The neurobiology of decision: consensus and controversy. 2009 , 63, 733-45	628
962	Disruption of endogenous opioid activity during instrumental learning enhances habit acquisition. 2009 , 163, 770-80	37
961	Dopamine receptors in the learning, memory and drug reward circuitry. 2009 , 20, 403-10	70
960	Chronic stress causes frontostriatal reorganization and affects decision-making. 2009 , 325, 621-5	610
959	Cortico-striatal Interactions during Learning, Memory Processing, and Decision Making. 2009 , 29, 12831-8	159
958	Goal directedness and decision making in infants. 2009 , 45, 809-19	29
957	Resolution of conflict between goal-directed actions: outcome encoding and neural control processes. 2009 , 35, 382-93	12
956	The rat prelimbic cortex mediates inhibitory response control but not the consolidation of instrumental learning. 2009 , 123, 875-85	29
955	Trait impulsivity predicts escalation of sucrose seeking and hypersensitivity to sucrose-associated stimuli. 2009 , 123, 794-803	55
954	Interactions between the prefrontal cortex and amygdala during delay discounting and reversal. 2009 , 123, 1185-96	98
953	Operant conditioning of primate prefrontal neurons. 2010 , 103, 1843-55	17

952	Choice and contingency in the development of behavioral autonomy during instrumental conditioning. 2010 , 36, 334-42	58
951	TRoPICALS: a computational embodied neuroscience model of compatibility effects. 2010 , 117, 1188-228	103
950	What, if anything, can monkeys tell us about human amnesia when they can't say anything at all?. 2010 , 48, 2385-405	19
949	Food seeking in spite of harmful consequences is under prefrontal cortical noradrenergic control. 2010 , 11, 15	35
948	Computational models of cognitive control. 2010 , 20, 257-61	69
947	Neural computations associated with goal-directed choice. 2010 , 20, 262-70	409
946	Role of the medial prefrontal cortex in coping and resilience. 2010 , 1355, 52-60	188
945	Pavlovian to instrumental transfer: a neurobehavioural perspective. 2010 , 34, 1277-95	214
944	Individual differences in prefrontal cortex function and the transition from drug use to drug dependence. 2010 , 35, 232-47	230
943	Model-based approaches to neuroimaging: combining reinforcement learning theory with fMRI data. 2010 , 1, 501-510	63
942	10-Month-Olds Visually Anticipate an Outcome Contingent on Their Own Action. 2010 , 15, 337-361	16
941	Goal-directed and habitual control in the basal ganglia: implications for Parkinson's disease. 2010 , 11, 760-72	680
940	Posterior dorsomedial striatum is critical for both selective instrumental and Pavlovian reward learning. 2010 , 31, 1312-21	101
939	Dissociable regulation of instrumental action within mouse prefrontal cortex. 2010 , 32, 1726-34	89
938	Expectancies in decision making, reinforcement learning, and ventral striatum. 2010 , 4, 6	43
937	Appetitive operant conditioning in mice: heritability and dissociability of training stages. 2010 , 4, 171	14
936	Instrumental uncertainty as a determinant of behavior under interval schedules of reinforcement. 2010 , 4,	63
935	Endocannabinoid Signaling in the Striatum. 2010 , 167-186	4

934	Drug Addiction. 2010 , 571-592	4
933	Dissociable roles of the medial prefrontal cortex and nucleus accumbens core in goal-directed actions for differential reward magnitude. 2010 , 20, 2884-99	30
932	Ventromedial and orbital prefrontal neurons differentially encode internally and externally driven motivational values in monkeys. 2010 , 30, 8591-601	149
931	Prefrontal cortical contribution to risk-based decision making. 2010 , 20, 1816-28	143
930	Integrated cannabinoid CB1 receptor transmission within the amygdala-prefrontal cortical pathway modulates neuronal plasticity and emotional memory encoding. 2010 , 20, 1486-96	59
929	The roles of the amygdala in the affective regulation of body, brain, and behaviour. 2010 , 22, 215-245	48
928	Human and rodent homologies in action control: corticostriatal determinants of goal-directed and habitual action. 2010 , 35, 48-69	1139
927	Economic choices can be made using only stimulus values. 2010 , 107, 15005-10	105
926	Appetitive and aversive goal values are encoded in the medial orbitofrontal cortex at the time of decision making. 2010 , 30, 10799-808	256
925	Shift from goal-directed to habitual cocaine seeking after prolonged experience in rats. 2010 , 30, 15457-63	206
924	Acquisition and performance of goal-directed instrumental actions depends on ERK signaling in distinct regions of dorsal striatum in rats. 2010 , 30, 2951-9	85
923	Disconnection of the entorhinal cortex and dorsomedial striatum impairs the sensitivity to instrumental contingency degradation. 2010 , 35, 1788-96	21
922	The role of dopamine in the prelimbic cortex and the dorsomedial striatum in instrumental conditioning. 2010 , 20, 873-83	63
921	Lesions of the prelimbic prefrontal cortex prevent response conflict produced by action-outcome associations. 2010 , 63, 417-24	14
920	Gray matter deficits and resting-state abnormalities in abstinent heroin-dependent individuals. 2010 , 482, 101-5	81
919	The role of contextual conditioning in the effect of reinforcer devaluation on instrumental performance by rats. 2010 , 83, 276-81	16
918	The uncertainty processing theory of motivation. 2010 , 208, 291-310	44
917	Separable learning systems in the macaque brain and the role of orbitofrontal cortex in contingent learning. 2010 , 65, 927-39	285

916	Triple dissociation of information processing in dorsal striatum, ventral striatum, and hippocampus on a learned spatial decision task. 2010 , 67, 25-32		162
915	Dopamine agonists increase perseverative instrumental responses but do not restore habit formation in a rat model of Parkinsonism. 2010 , 168, 477-86		21
914	Neural mechanisms of observational learning. 2010 , 107, 14431-6		213
913	Opponency revisited: competition and cooperation between dopamine and serotonin. 2011 , 36, 74-97		318
912	Neurobiology of economic choice: a good-based model. 2011 , 34, 333-59		394
911	Contributions of ERK signaling in the striatum to instrumental learning and performance. 2011 , 218, 240-7		70
910	Stress-induced modulation of instrumental behavior: from goal-directed to habitual control of action. 2011 , 219, 321-8		159
909	Molecular substrates of action control in cortico-striatal circuits. 2011 , 95, 1-13		76
908	Natural rewards, neuroplasticity, and non-drug addictions. <i>Neuropharmacology</i> , 2011 , 61, 1109-22	5.5	222
907	The role of dopamine in the dorsomedial striatum in place and response learning. 2011 , 172, 212-8		19
906	Chronic stress modulates neural and cardiovascular responses during reversal learning. 2011 , 193, 193-204		23
905	Slow phasic changes in nucleus accumbens dopamine release during fixed ratio acquisition: a microdialysis study. 2011 , 196, 178-88		31
904	Inactivation of the infralimbic prefrontal cortex in rats reduces the influence of inappropriate habitual responding in a response-conflict task. 2011 , 199, 205-12		29
903	Towards mouse models of perseveration: a heritable component in extinction of operant behavior in fourteen standard and recombinant inbred mouse lines. 2011 , 96, 280-7		10
902	Animal models of neuropsychiatric disorders. 2011 , 7, 39-61		110
901	Toward an executive without a homunculus: computational models of the prefrontal cortex/basal ganglia system. 239-263		1
900	Distinct Changes in CREB Phosphorylation in Frontal Cortex and Striatum During Contingent and Non-Contingent Performance of a Visual Attention Task. 2011 , 5, 65		5
899	Reward-related behavioral paradigms for addiction research in the mouse: performance of common inbred strains. 2011 , 6, e15536		38

898	Interaction between dysfunctional connectivity at rest and heroin cues-induced brain responses in male abstinent heroin-dependent individuals. 2011 , 6, e23098	32
897	Striatal Dopamine and Glutamate in Action. 2011 , 203-226	
896	The value of foresight: how prospection affects decision-making. 2011 , 5, 79	46
895	The prefrontal cortex and hybrid learning during iterative competitive games. 2011 , 1239, 100-8	11
894	The orbitofrontal cortex, predicted value, and choice. 2011 , 1239, 43-50	60
893	Contributions of the ventromedial prefrontal cortex to goal-directed action selection. 2011 , 1239, 118-29	155
892	A reinforcement learning approach to instrumental contingency degradation in rats. 2011 , 105, 36-44	7
891	Stress increases behavioral resistance to extinction. 2011 , 36, 1287-93	23
890	Effects of sensitization on the detection of an instrumental contingency. 2011 , 100, 48-58	8
889	Helplessness: a systematic translational review of theory and evidence for its relevance to understanding and treating depression. 2011 , 132, 242-67	126
888	A selectionist account of de novo action learning. 2011 , 21, 579-86	49
887	Prefrontal cortex and drug abuse vulnerability: translation to prevention and treatment interventions. 2011 , 65, 124-49	120
886	Probabilistic reinforcement learning in adults with autism spectrum disorders. 2011 , 4, 109-20	52
885	Transitive inference in adults with autism spectrum disorders. 2011 , 11, 437-49	16
884	Habitual and goal-directed factors in (everyday) object handling. 2011 , 213, 371-82	50
883	Experimental medicine in drug addiction: towards behavioral, cognitive and neurobiological biomarkers. 2011 , 25, 1235-55	25
882	Microstructure abnormalities in adolescents with internet addiction disorder. 2011 , 6, e20708	236
881	Preventing the stress-induced shift from goal-directed to habit action with a βadrenergic antagonist. 2011 , 31, 17317-25	69

880	Neural correlates of instrumental contingency learning: differential effects of action-reward conjunction and disjunction. 2011 , 31, 2474-80	83
879	Human dorsal striatal activity during choice discriminates reinforcement learning behavior from the gambler's fallacy. 2011 , 31, 6296-304	28
878	Multiple interpretations of cocaine-seeking behavior after prolonged self-administration training. 2011 , 31, 3935-6	3
877	Neural correlates of forward planning in a spatial decision task in humans. 2011 , 31, 5526-39	133
876	Micro-opioid receptor activation in the basolateral amygdala mediates the learning of increases but not decreases in the incentive value of a food reward. 2011 , 31, 1591-9	50
875	Habitual versus goal-directed action control in Parkinson disease. 2011 , 23, 1218-29	88
874	Dopamine modulates reward expectancy during performance of a slot machine task in rats: evidence for a 'near-miss' effect. 2011 , 36, 913-25	73
873	Impaired formation of stimulus-response, but not action-outcome, associations in rats with methamphetamine-induced neurotoxicity. 2011 , 36, 2441-51	30
872	Anything you can do, you can do better: neural substrates of incentive-based performance enhancement. 2012 , 10, e1001272	8
871	Dopamine receptor blockade attenuates the general incentive motivational effects of noncontingently delivered rewards and reward-paired cues without affecting their ability to bias action selection. 2012 , 37, 508-19	38
870	Amygdala central nucleus interacts with dorsolateral striatum to regulate the acquisition of habits. 2012 , 32, 1073-81	121
869	Conditioned response evoked by nicotine conditioned stimulus preferentially induces c-Fos expression in medial regions of caudate-putamen. 2012 , 37, 876-84	13
868	Low prefrontal PSA-NCAM confers risk for alcoholism-related behavior. 2012 , 15, 1356-8	45
867	Irrational choice under uncertainty correlates with lower striatal D(2/3) receptor binding in rats. 2012 , 32, 15450-7	67
866	Δ and Δopioid-related processes in the accumbens core and shell differentially mediate the influence of reward-guided and stimulus-guided decisions on choice. 2012 , 32, 1875-83	63
865	Dissociable brain systems mediate vicarious learning of stimulus-response and action-outcome contingencies. 2012 , 32, 9878-86	20
864	Learning to cope with stress: psychobiological mechanisms of stress resilience. 2012 , 23, 659-72	34
863	The Interaction Engine—A Common Pragmatic Competence Across Linguistic and Nonlinguistic Interactions. 2012 , 4, 105-123	47

862	Corticostriatal plasticity is necessary for learning intentional neuroprosthetic skills. 2012 , 483, 331-5	252
861	Stress effects on memory: an update and integration. 2012 , 36, 1740-9	459
860	The persistence of maladaptive memory: addiction, drug memories and anti-relapse treatments. 2012 , 36, 1119-39	159
859	Functional roles of neurotransmitters and neuromodulators in the dorsal striatum. 2012 , 20, 21-8	50
858	Rethinking the emotional brain. 2012 , 73, 653-76	997
857	Neural mechanisms underlying paradoxical performance for monetary incentives are driven by loss aversion. 2012 , 74, 582-94	80
856	Activation and role of the medial prefrontal cortex (mPFC) in extinction of ethanol-induced associative learning in mice. 2012 , 97, 37-46	17
855	Neural systems analysis of decision making during goal-directed navigation. 2012 , 96, 96-135	56
854	Obsessive-compulsive disorder: beyond segregated cortico-striatal pathways. 2012 , 16, 43-51	527
853	Dissociable roles of the medial prefrontal cortex, the anterior cingulate cortex, and the hippocampus in behavioural flexibility revealed by serial reversal of three-choice discrimination in rats. 2012 , 227, 81-90	28
852	Operant-based instrumental learning for analysis of genetically modified models of Huntington's disease. 2012 , 88, 261-75	11
851	Intentional binding and the sense of agency: a review. 2012 , 21, 546-61	283
850	Goal-directed decision making as probabilistic inference: a computational framework and potential neural correlates. 2012 , 119, 120-54	128
849	Changes in nucleus accumbens and neostriatal c-Fos and DARPP-32 immunoreactivity during different stages of food-reinforced instrumental training. 2012 , 35, 1354-67	26
848	Simultaneous glucocorticoid and noradrenergic activity disrupts the neural basis of goal-directed action in the human brain. 2012 , 32, 10146-55	136
847	Evaluation of an A(1-40)-induced cognitive deficit in rat using a reward-directed instrumental learning task. 2012 , 234, 323-33	12
846	Enhanced dorsolateral striatal activity in drug use: the role of outcome in stimulus-response associations. 2012 , 235, 136-42	10
845	Contributions of the striatum to learning, motivation, and performance: an associative account. 2012 , 16, 467-75	205

844	Integrating cortico-limbic-basal ganglia architectures for learning model-based and model-free navigation strategies. 2012 , 6, 79	49
843	Depressive-like behavior in adolescents after maternal separation: sex differences, controllability, and GABA. 2012 , 34, 210-7	67
842	Reward cues in space: commonalities and differences in neural coding by hippocampal and ventral striatal ensembles. 2012 , 32, 12444-59	32
841	Computational Neuroscience of Drug Addiction. 2012 ,	4
840	Reasoning, learning, and creativity: frontal lobe function and human decision-making. 2012 , 10, e1001293	246
839	Quantifying individual variation in the propensity to attribute incentive salience to reward cues. 2012 , 7, e38987	178
838	Environmental enrichment alters nicotine-mediated locomotor sensitization and phosphorylation of DARPP-32 and CREB in rat prefrontal cortex. 2012 , 7, e44149	18
837	The hippocampus and exploration: dynamically evolving behavior and neural representations. 2012 , 6, 216	30
836	Aversive pavlovian responses affect human instrumental motor performance. 2012 , 6, 134	17
835	Neural basis of reinforcement learning and decision making. 2012 , 35, 287-308	277
834	Effect of fenfluramine on reinstatement of food seeking in female and male rats: implications for the predictive validity of the reinstatement model. 2012 , 221, 341-53	33
833	Modularity of mind and the role of incentive motivation in representing novelty. 2012 , 15, 443-59	2
832	Striatal dopamine depletion in rats produces variable effects on contingency detection: task-related influences. 2012 , 35, 486-95	6
831	Action effect anticipation: neurophysiological basis and functional consequences. 2012 , 36, 943-59	144
830	Dissociating hippocampal and striatal contributions to sequential prediction learning. 2012 , 35, 1011-23	86
829	Perceived helplessness is associated with individual differences in the central motor output system. 2012 , 35, 1481-7	36
828	Different dorsal striatum circuits mediate action discrimination and action generalization. 2012 , 35, 1105-14	37
827	Beyond simple reinforcement learning: the computational neurobiology of reward-learning and valuation. 2012 , 35, 987-90	26

826	The role of dopamine in the accumbens core in the expression of Pavlovian-conditioned responses. 2012 , 36, 2521-32	203
825	Chronic scopolamine-injection-induced cognitive deficit on reward-directed instrumental learning in rat is associated with CREB signaling activity in the cerebral cortex and dorsal hippocampus. 2013 , 230, 245-60	22
824	Variation in Emotion and Cognition Among Fishes. 2013 , 26, 7-23	39
823	A dual operator view of habitual behavior reflecting cortical and striatal dynamics. 2013 , 79, 361-74	197
822	Molecular and cellular mechanisms of dopamine-mediated behavioral plasticity in the striatum. 2013 , 105, 63-80	45
821	Resolution of outcome-induced response conflict by humans after extended training. 2013 , 77, 780-93	11
820	Distinct basal ganglia circuits controlling behaviors guided by flexible and stable values. 2013 , 79, 1001-10	120
819	Delta opioid receptors in brain function and diseases. 2013 , 140, 112-20	95
818	Intrinsically Motivated Learning in Natural and Artificial Systems. 2013 ,	69
817	Goals and habits in the brain. 2013 , 80, 312-25	577
816	Regulation of dietary choice by the decision-making circuitry. 2013 , 16, 1717-24	142
815	Theories and computational models of affordance and mirror systems: an integrative review. 2013 , 37, 491-521	138
814	Motor control, habits, complex motor stereotypies, and Tourette syndrome. 2013 , 1304, 22-31	58
813	Online evaluation of novel choices by simultaneous representation of multiple memories. 2013 , 16, 1492-8	175
812	The effect of early-life stress on memory systems supporting instrumental behavior. 2013 , 23, 1025-34	12
811	Associative learning mechanisms underpinning the transition from recreational drug use to addiction. 2013 , 1282, 12-24	132
810	Avoidance-based human Pavlovian-to-instrumental transfer. 2013 , 38, 3740-8	47
809	Stress and the engagement of multiple memory systems: integration of animal and human studies. 2013 , 23, 1035-43	66

808	Mice infer probabilistic models for timing. 2013 , 110, 17154-9	16
807	Segregated encoding of reward-identity and stimulus-reward associations in human orbitofrontal cortex. 2013 , 33, 3202-11	96
806	Intrinsically motivated action-outcome learning and goal-based action recall: a system-level bio-constrained computational model. 2013 , 41, 168-87	66
805	Why skill matters. 2013 , 17, 434-41	54
804	An architecture for observational learning and decision making based on internal models. 2013 , 5, 52-63	2
803	Differential effects of amygdala, orbital prefrontal cortex, and prelimbic cortex lesions on goal-directed behavior in rhesus macaques. 2013 , 33, 3380-9	71
802	Choice coding in frontal cortex during stimulus-guided or action-guided decision-making. 2013 , 33, 1864-71	66
801	Action simulation in the human brain: Twelve questions. 2013 , 31, 270-290	75
800	Adjunctive behaviors are operants. 2013 , 41, 1-24	42
799	Decision making: from neuroscience to psychiatry. 2013 , 78, 233-48	98
798	Habit and nonhabit systems for unconscious and conscious behavior: implications for multitasking. 2013 , 25, 273-83	13
797	Using optogenetics to study habits. 2013 , 1511, 102-14	20
796	The thalamostriatal pathway and cholinergic control of goal-directed action: interlacing new with existing learning in the striatum. 2013 , 79, 153-66	184
795	Model-based and model-free mechanisms of human motor learning. 2013 , 782, 1-21	133
794	Category-dependent and category-independent goal-value codes in human ventromedial prefrontal cortex. 2013 , 16, 479-85	138
793	A spiking neuron model of the cortico-basal ganglia circuits for goal-directed and habitual action learning. 2013 , 41, 212-24	36
792	Stress and multiple memory systems: from 'thinking' to 'doing'. 2013 , 17, 60-8	227
791	Neural correlates of the divergence of instrumental probability distributions. 2013 , 33, 12519-27	24

790	Differential expression of Arc in the mesocorticolimbic system is involved in drug and natural rewarding behavior in rats. 2013 , 34, 1013-24	5
789	Whisker movements reveal spatial attention: a unified computational model of active sensing control in the rat. 2013 , 9, e1003236	38
788	Situationally appropriate behavior: translating situations into appetitive behavior modes. 2013 , 24, 577-606	4
787	Erasing the engram: the unlearning of procedural skills. 2013 , 142, 710-41	19
786	Reward value-contingent changes of visual responses in the primate caudate tail associated with a visuomotor skill. 2013 , 33, 11227-38	87
785	The Influence of Major Life Events on Economic Attitudes in a World of Gene-Environment Interplay. 2013 , 57, 987-1007	16
784	The orbitofrontal cortex regulates outcome-based decision-making via the lateral striatum. 2013 , 38, 2382-8	66
783	Striatum-dependent habits are insensitive to both increases and decreases in reinforcer value in mice. 2013 , 37, 1012-21	29
782	Dorsomedial and dorsolateral striatum exhibit distinct phasic neuronal activity during alcohol self-administration in rats. 2013 , 38, 2637-48	32
781	Feature extraction and unsupervised classification of neural population reward signals for reinforcement based BMI. 2013 , 2013, 5250-3	5
780	Cytoskeletal determinants of stimulus-response habits. 2013 , 33, 11811-6	33
779	Acute stressor effects on goal-directed action in rats. 2013 , 20, 700-9	19
778	Latest Developments in LiveZ-Score Training: Symptom Check List, Phase Reset, and LoretaZ-Score Biofeedback. 2013 , 17, 69-87	29
777	Behavioral and neuroimaging evidence for overreliance on habit learning in alcohol-dependent patients. 2013 , 3, e337	200
776	Investigations of the Neurobiological Bases of Inter-Temporal Choice Behaviour. 2013 , 14, 215-239	5
775	Context and time in causal learning: contingency and mood dependent effects. 2013 , 8, e64063	13
774	The mixed instrumental controller: using value of information to combine habitual choice and mental simulation. 2013 , 4, 92	97
773	Anticipation and the control of voluntary action. 2013 , 4, 341	2

772	Validation and extension of the reward-mountain model. 2013 , 7, 125	13
771	The nucleus accumbens as a nexus between values and goals in goal-directed behavior: a review and a new hypothesis. 2013 , 7, 135	83
770	The role of zebrafish (<i>Danio rerio</i>) in dissecting the genetics and neural circuits of executive function. 2013 , 7, 63	77
769	The drive to strive: goal generation based on current needs. 2013 , 7, 112	28
768	Bidirectional modulation of infralimbic dopamine D1 and D2 receptor activity regulates flexible reward seeking. 2013 , 7, 126	42
767	The role of the anterior, mediodorsal, and parafascicular thalamus in instrumental conditioning. 2013 , 7, 51	65
766	Toward a common theory for learning from reward, affect, and motivation: the SIMON framework. 2013 , 7, 59	8
765	Impulse Control Disorders in Parkinson's Disease: Crossroads between Neurology, Psychiatry and Neuroscience. 2013 , 27, 547-557	12
764	The Reliability and Validity of the Korean Version of Apathy Evaluation Scale and its Application in Patients with Schizophrenia. 2013 , 16, 80	8
763	Role of the plasticity-associated transcription factor zif268 in the early phase of instrumental learning. 2014 , 9, e81868	15
762	Striatal direct and indirect pathways control decision-making behavior. 2014 , 5, 1301	57
761	Does temporal discounting explain unhealthy behavior? A systematic review and reinforcement learning perspective. 2014 , 8, 76	141
760	A potential role for the paraventricular nucleus of the thalamus in mediating individual variation in Pavlovian conditioned responses. 2014 , 8, 79	52
759	Altered motivation masks appetitive learning potential of obese mice. 2014 , 8, 377	7
758	Devaluation and sequential decisions: linking goal-directed and model-based behavior. 2014 , 8, 587	49
757	Modeling habits as self-sustaining patterns of sensorimotor behavior. 2014 , 8, 590	28
756	Neonatal lesions of orbital frontal areas 11/13 in monkeys alter goal-directed behavior but spare fear conditioning and safety signal learning. 2014 , 8, 37	8
755	Comprensión y tratamiento del juego patológico: aportaciones desde la Neurociencia del Aprendizaje. 2014 , 25, 157-166	2

754	Dopamine dependency for acquisition and performance of Pavlovian conditioned response. 2014 , 111, 2764-9	38
753	Behavioral and neural substrates of habit formation in rats intravenously self-administering nicotine. 2014 , 39, 2584-93	43
752	Differential effects of systemic cholinergic receptor blockade on Pavlovian incentive motivation and goal-directed action selection. 2014 , 39, 1490-7	12
751	The contribution of medial prefrontal cortical regions to conditioned inhibition. 2014 , 128, 644-53	18
750	A Computational Account of Borderline Personality Disorder: Impaired Predictive Learning about Self and Others Through Bodily Simulation. 2014 , 5, 111	13
749	Cafeteria diet impairs expression of sensory-specific satiety and stimulus-outcome learning. 2014 , 5, 852	35
748	Bursts and heavy tails in temporal and sequential dynamics of foraging decisions. 2014 , 10, e1003759	9
747	Interval Timing, Dopamine, and Motivation. 2014 , 2, 379-410	30
746	Control over a stressor involves the posterior dorsal striatum and the act/outcome circuit. 2014 , 40, 2352-8	26
745	On Persistent Demand Shortages: A Behavioural Approach. 2014 , 65, 42-69	14
744	Epigenetic and pharmacological regulation of 5HT3 receptors controls compulsive ethanol seeking in mice. 2014 , 39, 999-1008	30
743	A unifying model of the role of the infralimbic cortex in extinction and habits. 2014 , 21, 441-8	50
742	Animal models of obsessive-compulsive spectrum disorders. 2014 , 19, 28-49	49
741	Impact of Alcohol Abuse and Dependence on the Structure and Function of the Prefrontal Cortex. 2014 , 291-320	1
740	The role of mirror neurons in language acquisition and evolution. 2014 , 37, 192-3	
739	Deciphering mirror neurons: rational decision versus associative learning. 2014 , 37, 206-7	1
738	Reward in the mirror neuron system, social context, and the implications on psychopathology. 2014 , 37, 196-7	1
737	Authors' response: mirror neurons: tests and testability. 2014 , 37, 221-41	8

736	Understanding action with the motor system. 2014 , 37, 199-200	3
735	The origin and function of mirror neurons: the missing link. 2014 , 37, 209-10	2
734	Relating the "mirrorness" of mirror neurons to their origins. 2014 , 37, 207-8	1
733	The emergence of mirror-like response properties from domain-general principles in vision and audition. 2014 , 37, 219	
732	Experiential effects on mirror systems and social learning: implications for social intelligence. 2014 , 37, 217-8	47
731	Understanding the role of mirror neurons in action understanding will require more than a domain-general account. 2014 , 37, 211	
730	Testing key predictions of the associative account of mirror neurons in humans using multivariate pattern analysis. 2014 , 37, 213-5	4
729	More than associations: an ideomotor perspective on mirror neurons. 2014 , 37, 195-6	6
728	A mass assembly of associative mechanisms: a dynamical systems account of natural social interaction. 2014 , 37, 198	
727	The insufficiency of associative learning for explaining development: three challenges to the associative account. 2014 , 37, 193-4	1
726	Associative and sensorimotor learning for parenting involves mirror neurons under the influence of oxytocin. 2014 , 37, 203-4	1
725	Hebbian Learning is about contingency, not contiguity, and explains the emergence of predictive mirror neurons. 2014 , 37, 205-6	10
724	Vocal coordination and vocal imitation: a role for mirror neurons?. 2014 , 37, 211-2	0
723	Neonatal imitation and an epigenetic account of mirror neuron development. 2014 , 37, 220	3
722	Motor-visual neurons and action recognition in social interactions. 2014 , 37, 197-8	1
721	Mirror mechanism and dedicated circuits are the scaffold for mirroring processes. 2014 , 37, 199	5
720	Evolution after mirror neurons: tapping the shared manifold through secondary adaptation. 2014 , 37, 200-1	
719	Mirror representations innate versus determined by experience: a viewpoint from learning theory. 2014 , 37, 201-2	

718	The alluring but misleading analogy between mirror neurons and the motor theory of speech. 2014 , 37, 204-5	
717	A developmental perspective on action and social cognition. 2014 , 37, 208-9	2
716	Reconciling genetic evolution and the associative learning account of mirror neurons through data-acquisition mechanisms. 2014 , 37, 210-1	2
715	Associative learning alone is insufficient for the evolution and maintenance of the human mirror neuron system. 2014 , 37, 212-3	4
714	The mirror system in human and nonhuman primates. 2014 , 37, 215-6	1
713	Contagious behavior: an alternative approach to mirror-like phenomena. 2014 , 37, 216-7	6
712	Cortico-Basal Ganglia Networks and the Neural Substrates of Actions. 2014 , 29-47	6
711	Associative learning is necessary but not sufficient for mirror neuron development. 2014 , 37, 194-5	1
710	Higher-level processes in the formation and application of associations during action understanding. 2014 , 37, 202-3	3
709	Model-based and model-free decisions in alcohol dependence. 2014 , 70, 122-31	116
708	Investigating habits: strategies, technologies and models. 2014 , 8, 39	57
707	Mirror neurons: from origin to function. 2014 , 37, 177-92	334
706	Confounding the origin and function of mirror neurons. 2014 , 37, 218-9	6
705	Neural computations underlying arbitration between model-based and model-free learning. 2014 , 81, 687-99	340
704	Persistent impairments in hippocampal function following a brief series of photoperiod shifts in rats. 2014 , 17, 127-41	21
703	Orbitofrontal cortex as a cognitive map of task space. 2014 , 81, 267-279	479
702	Dorsal and ventral streams: the distinct role of striatal subregions in the acquisition and performance of goal-directed actions. 2014 , 108, 104-18	113
701	Habit formation: implications for alcoholism research. 2014 , 48, 327-35	32

700	Computational psychiatry. 2014 , 84, 638-54	217
699	Early-life cocaine interferes with BDNF-mediated behavioral plasticity. 2014 , 21, 253-7	22
698	The algorithmic anatomy of model-based evaluation. 2014 , 369,	103
697	The why, what, where, when and how of goal-directed choice: neuronal and computational principles. 2014 , 369,	78
696	Region-specific impairments in striatal synaptic transmission and impaired instrumental learning in a mouse model of Angelman syndrome. 2014 , 39, 1018-1025	16
695	Bayesian modeling of flexible cognitive control. 2014 , 46 Pt 1, 30-43	50
694	Taking action in the face of threat: neural synchronization predicts adaptive coping. 2014 , 34, 14733-8	36
693	Measuring Affective-Cognitive Experience and Predicting Market Success. 2014 , 5, 173-186	14
692	Big behavioral data: psychology, ethology and the foundations of neuroscience. 2014 , 17, 1455-62	167
691	Adolescent brain maturation and smoking: what we know and where we're headed. 2014 , 45, 323-42	89
690	Anterior cingulate cortex instigates adaptive switches in choice by integrating immediate and delayed components of value in ventromedial prefrontal cortex. 2014 , 34, 3340-9	24
689	Internally generated sequences in learning and executing goal-directed behavior. 2014 , 18, 647-57	166
688	Habit learning and memory in mammals: behavioral and neural characteristics. 2014 , 114, 198-208	38
687	Reconsolidation of a well-learned instrumental memory. 2014 , 21, 468-77	40
686	Adenosine receptor control of cognition in normal and disease. 2014 , 119, 257-307	88
685	Orquestic regulation of neurotransmitters on reward-seeking behavior. 2014 , 7, 29	15
684	Habitual alcohol seeking: modeling the transition from casual drinking to addiction. 2014 , 47, 281-94	59
683	The self-administration of rapidly delivered cocaine promotes increased motivation to take the drug: contributions of prior levels of operant responding and cocaine intake. 2014 , 231, 4241-52	15

682	Development of goal-directed action selection guided by intrinsic motivations: an experiment with children. 2014 , 232, 2167-77	19
681	Multiple Systems for Value Learning. 2014 , 393-410	28
680	Ventral medial prefrontal cortex inactivation impairs impulse control but does not affect delay-discounting in rats. 2014 , 264, 230-9	38
679	The problem with value. 2014 , 43, 259-68	80
678	Neurons in the ventral striatum exhibit cell-type-specific representations of outcome during learning. 2014 , 82, 1145-56	63
677	Effects of dopamine D1 receptor blockade in the prelimbic prefrontal cortex or lateral dorsal striatum on frontostriatal function in Wistar and Spontaneously Hypertensive Rats. 2014 , 268, 229-38	9
676	Increased behavioral output but intact goal-directed and habitual responding for food reward following early-life social deprivation in rats. 2014 , 271, 94-105	4
675	Transition from 'model-based' to 'model-free' behavioral control in addiction: Involvement of the orbitofrontal cortex and dorsolateral striatum. <i>Neuropharmacology</i> , 2014 , 76 Pt B, 407-15	5-5 55
674	The Aristotelian conception of habit and its contribution to human neuroscience. 2014 , 8, 883	32
673	Translational studies of goal-directed action as a framework for classifying deficits across psychiatric disorders. 2014 , 8, 101	71
672	Translatable and Back-Translatable Measurement of Impulsivity and Compulsivity: Convergent and Divergent Processes. 2016 , 28, 53-91	31
671	Action-outcome relationships are represented differently by medial prefrontal and orbitofrontal cortex neurons during action execution. 2015 , 114, 3374-85	24
670	Right external globus pallidus changes are associated with altered causal awareness in youth with depression. 2015 , 5, e653	4
669	Communication Yearbook 39. 2015 ,	
668	Attention is necessary for subliminal instrumental conditioning. 2015 , 5, 12920	11
667	Using Optogenetics to Dissect the Neural Circuits Underlying OCD and Related Disorders. 2015 , 2, 297-311	8
666	Adolescent-onset GABAA α silencing regulates reward-related decision making. 2015 , 42, 2114-2121	15
665	Lesions of the paraventricular nucleus of the thalamus differentially affect sign- and goal-tracking conditioned responses. 2015 , 42, 2478-88	42

664	Integration of reward signalling and appetite regulating peptide systems in the control of food-cue responses. 2015 , 172, 5225-38	31
663	Condition interference in rats performing a choice task with switched variable- and fixed-reward conditions. 2015 , 9, 27	4
662	The prelimbic cortex uses higher-order cues to modulate both the acquisition and expression of conditioned fear. 2014 , 8, 235	27
661	Neuroimaging studies of the striatum in cognition Part I: healthy individuals. 2015 , 9, 140	35
660	A Framework for Understanding the Emerging Role of Corticolimbic-Ventral Striatal Networks in OCD-Associated Repetitive Behaviors. 2015 , 9, 171	45
659	Model-Based Reasoning in Humans Becomes Automatic with Training. 2015 , 11, e1004463	39
658	Simple Plans or Sophisticated Habits? State, Transition and Learning Interactions in the Two-Step Task. 2015 , 11, e1004648	61
657	Dissociable functions of reward inference in the lateral prefrontal cortex and the striatum. 2015 , 6, 995	13
656	Rewards modulate saccade latency but not exogenous spatial attention. 2015 , 6, 1080	15
655	A model-based markovian context-dependent reinforcement learning approach for neurobiologically plausible transfer of experience. 2015 , 12, 119-129	6
654	Tong Luo Jiu Nao ameliorates A β -40-induced cognitive impairment on adaptive behavior learning by modulating ERK/CaMKII/CREB signaling in the hippocampus. 2015 , 15, 55	7
653	Animal Neuropsychology. 2015 , 133-181	
652	The prelimbic cortex directs attention toward predictive cues during fear learning. 2015 , 22, 289-93	23
651	What are goals? And if so, how many?. 2015 ,	8
650	Multiple Systems for the Motivational Control of Behavior and Associated Neural Substrates in Humans. 2016 , 27, 291-312	18
649	Medial Orbitofrontal Cortex Mediates Outcome Retrieval in Partially Observable Task Situations. 2015 , 88, 1268-1280	111
648	The Neural Foundations of Reaction and Action in Aversive Motivation. 2016 , 27, 171-95	20
647	Active Inference, homeostatic regulation and adaptive behavioural control. 2015 , 134, 17-35	342

646	Editorial overview: Neuroeconomics. 2015 , 5, v-viii	1
645	. 2015 ,	5
644	Motivational Processes Underlying Substance Abuse Disorder. 2016 , 27, 473-506	19
643	Translational Assessment of Reward and Motivational Deficits in Psychiatric Disorders. 2016 , 28, 231-62	62
642	The neurobiology of thalamic amnesia: Contributions of medial thalamus and prefrontal cortex to delayed conditional discrimination. 2015 , 54, 161-74	21
641	GABA _A -mediated plasticity in the orbitofrontal cortex regulates context-dependent action selection. 2015 , 40, 1027-36	18
640	The interaction of acute and chronic stress impairs model-based behavioral control. 2015 , 53, 268-80	66
639	Differential roles of medial prefrontal subregions in the regulation of drug seeking. 2015 , 1628, 130-46	132
638	Arbitration between controlled and impulsive choices. 2015 , 109, 206-16	9
637	The striatum multiplexes contextual and kinematic information to constrain motor habits execution. 2015 , 18, 453-60	96
636	Behavioral control blunts reactions to contemporaneous and future adverse events: medial prefrontal cortex plasticity and a corticostriatal network. 2015 , 1, 12-22	87
635	Imbalance in habitual versus goal directed neural systems during symptom provocation in obsessive-compulsive disorder. 2015 , 138, 798-811	58
634	Ventral striatal dopamine reflects behavioral and neural signatures of model-based control during sequential decision making. 2015 , 112, 1595-600	160
633	Corticostriatal control of goal-directed action is impaired in schizophrenia. 2015 , 77, 187-95	116
632	Nicotinic alteration of decision-making. <i>Neuropharmacology</i> , 2015 , 96, 244-54	5.5 24
631	Neural mechanisms regulating different forms of risk-related decision-making: Insights from animal models. 2015 , 58, 147-67	92
630	Contextual control of instrumental actions and habits. 2015 , 41, 69-80	81
629	The Computational Complexity of Valuation and Motivational Forces in Decision-Making Processes. 2016 , 27, 313-33	11

628	Slave to habit? Obesity is associated with decreased behavioural sensitivity to reward devaluation. 2015 , 87, 175-83	79
627	Limits of ideomotor action-outcome acquisition. 2015 , 1626, 45-53	9
626	The role of supplementary eye field in goal-directed behavior. 2015 , 109, 118-28	15
625	An Introduction to Neuroscientific Methods: Single-cell Recordings. 2015 , 113-137	
624	Neuronal Reward and Decision Signals: From Theories to Data. 2015 , 95, 853-951	545
623	Neuroimaging Studies of Reinforcement-Learning. 2015 , 375-380	
622	Distinct miRNA expression in dorsal striatal subregions is associated with risk for addiction in rats. 2015 , 5, e503	24
621	Distinct Circuits Underlie the Effects of 5-HT1B Receptors on Aggression and Impulsivity. 2015 , 86, 813-26	63
620	Model-based learning protects against forming habits. 2015 , 15, 523-36	175
619	Reinforcement learning models and their neural correlates: An activation likelihood estimation meta-analysis. 2015 , 15, 435-59	141
618	Characterizing the associative content of brain structures involved in habitual and goal-directed actions in humans: a multivariate fMRI study. 2015 , 35, 3764-71	54
617	An Introduction to Model-Based Cognitive Neuroscience. 2015 ,	27
616	Addiction as Maladaptive Learning, with a Focus on Habit Learning. 2015 , 1-28	
615	When locomotion is used to interact with the environment: investigation of the link between emotions and the twofold goal-directed locomotion in humans. 2015 , 233, 2913-24	6
614	Effects of shifts in food deprivation on consummatory successive negative contrast. 2015 , 52, 11-21	12
613	Avoidant decision-making in social anxiety disorder: A laboratory task linked to in vivo anxiety and treatment outcome. 2015 , 73, 96-103	25
612	Mechanisms of Action and Persistent Neuroplasticity by Drugs of Abuse. 2015 , 67, 872-1004	93
611	Habitual control of goal selection in humans. 2015 , 112, 13817-22	88

610	Exploration-exploitation: A cognitive dilemma still unresolved. 2015 , 6, 219-21	2
609	Free energy minimization and information gain: The devil is in the details. 2015 , 6, 216-8	4
608	What is epistemic value in free energy models of learning and acting? A bounded rationality perspective. 2015 , 6, 215-6	2
607	Differentiating neural systems mediating the acquisition vs. expression of goal-directed and habitual behavioral control. 2015 , 41, 1358-71	36
606	The striatum: where skills and habits meet. 2015 , 7, a021691	218
605	The Cognitive Architecture of Spatial Navigation: Hippocampal and Striatal Contributions. 2015 , 88, 64-77	111
604	Individual differences in learning predict the return of fear. 2015 , 43, 243-50	29
603	A new computational account of cognitive control over reinforcement-based decision-making: Modeling of a probabilistic learning task. 2015 , 71, 112-23	6
602	Active inference and epistemic value. 2015 , 6, 187-214	350
601	Lateral prefrontal model-based signatures are reduced in healthy individuals with high trait impulsivity. 2015 , 5, e659	45
600	Corticostriatal circuitry and habitual ethanol seeking. 2015 , 49, 817-24	49
599	Dopamine Neurons Encoding Long-Term Memory of Object Value for Habitual Behavior. 2015 , 163, 1165-1175	83
598	Thalamocortical integration of instrumental learning and performance and their disintegration in addiction. 2015 , 1628, 104-16	26
597	The structure of reinforcement-learning mechanisms in the human brain. 2015 , 1, 94-100	55
596	The prelimbic cortex uses contextual cues to modulate responding towards predictive stimuli during fear renewal. 2015 , 118, 20-9	28
595	Functional heterogeneity of the limbic thalamus: From hippocampal to cortical functions. 2015 , 54, 120-30	45
594	Memory and decision making. 2015 , 117, 1-3	17
593	Mediodorsal thalamus hypofunction impairs flexible goal-directed behavior. 2015 , 77, 445-53	106

592	Corticolimbic catecholamines in stress: a computational model of the appraisal of controllability. 2015 , 220, 1339-53	20
591	Disorders of compulsivity: a common bias towards learning habits. 2015 , 20, 345-52	382
590	Moderate alcohol exposure during early brain development increases stimulus-response habits in adulthood. 2016 , 21, 49-60	23
589	. 2016 ,	6
588	Risk Factors for Addiction and Their Association with Model-Based Behavioral Control. 2016 , 10, 26	17
587	Goal-Directed Behavior and Instrumental Devaluation: A Neural System-Level Computational Model. 2016 , 10, 181	20
586	Adolescent Maturation Transitions in the Prefrontal Cortex and Dopamine Signaling as a Risk Factor for the Development of Obesity and High Fat/High Sugar Diet Induced Cognitive Deficits. 2016 , 10, 189	50
585	Slips of Action and Sequential Decisions: A Cross-Validation Study of Tasks Assessing Habitual and Goal-Directed Action Control. 2016 , 10, 234	17
584	A Computational Analysis of Aberrant Delay Discounting in Psychiatric Disorders. 2015 , 6, 1948	17
583	A Unified Theoretical Framework for Cognitive Sequencing. 2016 , 7, 1821	10
582	A Closer Look at the Effects of Repeated Cocaine Exposure on Adaptive Decision-Making under Conditions That Promote Goal-Directed Control. 2016 , 7, 44	22
581	Changes in the Influence of Alcohol-Paired Stimuli on Alcohol Seeking across Extended Training. 2016 , 7, 169	22
580	Neuronal Nicotinic Receptors Are Crucial for Tuning of E/I Balance in Prelimbic Cortex and for Decision-Making Processes. 2016 , 7, 171	12
579	Reduced goal-directed action control in autism spectrum disorder. 2016 , 9, 1285-1293	25
578	Habitual Alcohol Seeking: Neural Bases and Possible Relations to Alcohol Use Disorders. 2016 , 40, 1380-9	58
577	Preventative treatment in an animal model of ADHD: Behavioral and biochemical effects of methylphenidate and its interactions with ovarian hormones in female rats. 2016 , 26, 1496-1506	7
576	Neurobiology of food choices-between energy homeostasis, reward system, and neuroeconomics. 2016 , 22,	1
575	Control feedback as the motivational force behind habitual behavior. 2016 , 229, 49-68	6

574	Normal and addictive desires. 2016 , 99-115	2
573	Palpating the elephant. 2016 , 227-244	2
572	Translational Research on Habit and Alcohol. 2016 , 3, 37-49	23
571	Effects of obesogenic diets on learning and habitual responding. 2016 , 9, 84-90	17
570	Effects of early life stress on amygdala and striatal development. 2016 , 19, 233-47	80
569	Dopamine and the Adolescent Brain: Do Errors in Prediction Make the Difference?. 2016 , 79, 870-1	
568	Habit formation coincides with shifts in reinforcement representations in the sensorimotor striatum. 2016 , 115, 1487-98	26
567	Aging-Related Dysfunction of Striatal Cholinergic Interneurons Produces Conflict in Action Selection. 2016 , 90, 362-73	41
566	Striatopallidal Neuron NMDA Receptors Control Synaptic Connectivity, Locomotor, and Goal-Directed Behaviors. 2016 , 36, 4976-92	18
565	Going and stopping: Dichotomies in behavioral control by the prefrontal cortex. 2016 , 19, 656-664	118
564	Impaired causal awareness and associated cortical-basal ganglia structural changes in youth psychiatric disorders. 2016 , 12, 285-92	3
563	Habit Formation and the Striatum. 2018 , 37, 275-295	18
562	Environmental enrichment may protect against neural and behavioural damage caused by withdrawal from chronic alcohol intake. 2016 , 55, 15-27	7
561	Appetitive Pavlovian-instrumental Transfer: A review. 2016 , 71, 829-848	164
560	Active inference and learning. 2016 , 68, 862-879	243
559	Visual Stimulus Detection Correlates with the Consistency of Temporal Sequences within Stereotyped Events of V1 Neuronal Population Activity. 2016 , 36, 8624-40	11
558	The Psychological and Physiological Mechanisms of Habit Formation. 2016 , 409-441	1
557	Consolidation of Goal-Directed Action Depends on MAPK/ERK Signaling in Rodent Prelimbic Cortex. 2016 , 36, 11974-11986	22

556	Toluene inhalation in adolescent rats reduces flexible behaviour in adulthood and alters glutamatergic and GABAergic signalling. 2016 , 139, 806-822	18
555	Learned helplessness at fifty: Insights from neuroscience. 2016 , 123, 349-67	262
554	The agranular and granular insula differentially contribute to gambling-like behavior on a rat slot machine task: effects of inactivation and local infusion of a dopamine D4 agonist on reward expectancy. 2016 , 233, 3135-47	19
553	Lateral, not medial, prefrontal cortex contributes to punishment and aversive instrumental learning. 2016 , 23, 607-617	18
552	The Cognitive Science Approach to Learning and Memory. 2016 ,	0
551	A time course analysis of satiety-induced instrumental outcome devaluation. 2016 , 44, 347-355	10
550	Rats bred for helplessness exhibit positive reinforcement learning deficits which are not alleviated by an antidepressant dose of the MAO-B inhibitor deprenyl. 2016 , 329, 83-92	4
549	Role of the Perigenual Anterior Cingulate and Orbitofrontal Cortex in Contingency Learning in the Marmoset. 2016 , 26, 3273-84	32
548	Active Inference, epistemic value, and vicarious trial and error. 2016 , 23, 322-38	36
547	Dissociable effects of anterior and mediodorsal thalamic lesions on spatial goal-directed behavior. 2016 , 221, 79-89	21
546	Prefrontal executive function and adaptive behavior in complex environments. 2016 , 37, 1-6	83
545	Transcranial magnetic stimulation of dorsolateral prefrontal cortex reduces cocaine use: A pilot study. 2016 , 26, 37-44	192
544	Dopaminergic impact on local and global cortical circuit processing during learning. 2016 , 299, 32-41	11
543	Neuronal activity in primate prefrontal cortex related to goal-directed behavior during auditory working memory tasks. 2016 , 1640, 314-27	1
542	Neurobiology of food choices Between energy homeostasis, reward system, and neuroeconomics. 2016 , 7, 13-22	4
541	Vicarious trial and error. 2016 , 17, 147-59	206
540	Medial prefrontal cortex involvement in the expression of extinction and ABA renewal of instrumental behavior for a food reinforcer. 2016 , 128, 33-9	23
539	Expanding the role of striatal cholinergic interneurons and the midbrain dopamine system in appetitive instrumental conditioning. 2016 , 115, 240-54	9

538	Reduced Affective Biasing of Instrumental Action With tDCS Over the Prefrontal Cortex. 2016 , 9, 380-387	5
537	Measuring wanting and liking from animals to humans: A systematic review. 2016 , 63, 124-42	125
536	Acquisition of specific response-outcome associations requires NMDA receptor activation in the basolateral amygdala but not in the insular cortex. 2016 , 128, 40-5	9
535	Human Choice Strategy Varies with Anatomical Projections from Ventromedial Prefrontal Cortex to Medial Striatum. 2016 , 36, 2857-67	22
534	Prospective and Pavlovian mechanisms in aversive behaviour. 2016 , 146, 415-25	15
533	Behavioral Interactions, Markets, and Economic Dynamics. 2016 ,	
532	Examining How Adding a Booster to a Behavioral Nutrition Intervention Prompts Parents to Pack More Vegetables and Whole Grains in Their Preschool Children's Sack Lunches. 2016 , 42, 9-17	8
531	Arbitration between Action Strategies in Obsessive-Compulsive Disorder. 2016 , 22, 188-98	32
530	Inactivation of the orbitofrontal cortex reduces irrational choice on a rodent Betting Task. 2017 , 345, 38-48	12
529	The Evolution of Retribution: Intuitions Undermined. 2017 , 98, 193-218	9
528	From avoidance to approach: The influence of threat-of-shock on reward-based decision making. 2017 , 96, 47-56	32
527	Inactivation of the Prelimbic Cortex Attenuates Context-Dependent Operant Responding. 2017 , 37, 2317-2324	21
526	Computational Models of Cognitive Control. 2017 , 125-142	2
525	Thalamic Control of Dorsomedial Striatum Regulates Internal State to Guide Goal-Directed Action Selection. 2017 , 37, 3721-3733	25
524	Integration of Two Skeptical Emotion Theories: Dimensional Appraisal Theory and Russell's Psychological Construction Theory. 2017 , 28, 1-19	27
523	Identity-Specific Reward Representations in Orbitofrontal Cortex Are Modulated by Selective Devaluation. 2017 , 37, 2627-2638	72
522	Why Hunger is not a Desire. 2017 , 8, 617-635	2
521	Intermittent feeding alters sensitivity to changes in reward value. 2017 , 113, 1-6	9

520	Peripheral nerve injury impairs the ability to maintain behavioural flexibility following acute stress in the rat. 2017 , 328, 123-129	6
519	Neurobiology of Autism Spectrum Disorders. 2017 , 29-93	1
518	Model-Based Control in Dimensional Psychiatry. 2017 , 82, 391-400	50
517	The many facets of motor learning and their relevance for Parkinson's disease. 2017 , 128, 1127-1141	67
516	Early life stress and later peer distress on depressive behavior in adolescent female rats: Effects of a novel intervention on GABA and D2 receptors. 2017 , 330, 37-45	22
515	Rat mPFC and M2 Play a Waiting Game (at Different Timescales). 2017 , 94, 700-702	
514	Optogenetics Research in Behavioral Neuroscience: Insights into the Brain Basis of Reward Learning and Goal-directed Behavior. 276-291	0
513	Selective impairment of goal-directed decision-making following lesions to the human ventromedial prefrontal cortex. 2017 , 140, 1743-1756	70
512	Habitual nicotine-seeking in rats following limited training. 2017 , 234, 2619-2629	13
511	Control of Behaviour by Competing Learning Systems. 2017 , 190-206	2
510	Effects of psychosocial stress on the goal-directed and habit memory systems during learning and later execution. 2017 , 77, 275-283	20
509	Preclinical models and neurocircuitry of gambling and impulsive behavior. 2017 , 13, 99-105	3
508	Basolateral amygdala supports the maintenance of value and effortful choice of a preferred option. 2017 , 45, 388-397	14
507	(Reinforcement?) Learning to forage optimally. 2017 , 46, 162-169	18
506	The anterior insula bidirectionally modulates cost-benefit decision-making on a rodent gambling task. 2017 , 46, 2620-2628	14
505	The successor representation in human reinforcement learning. 2017 , 1, 680-692	153
504	Imaginative Reinforcement Learning: Computational Principles and Neural Mechanisms. 2017 , 29, 2103-2113	13
503	Neural determinants of human goal-directed vs. habitual action control and their relation to trait motivation. 2017 , 7, 6002	9

502	The decision neuroscience perspective on suicidal behavior: evidence and hypotheses. 2017 , 30, 7-14	43
501	Basolateral amygdala and stress-induced hyperexcitability affect motivated behaviors and addiction. 2017 , 7, e1194	94
500	The Power of Goal-Directed Processes in the Causation of Emotional and Other Actions. 2017 , 9, 310-318	65
499	Inhibiting Rho kinase promotes goal-directed decision making and blocks habitual responding for cocaine. 2017 , 8, 1861	23
498	Orbitofrontal Cortex: A Neural Circuit for Economic Decisions. 2017 , 96, 736-754	128
497	Towards a Unitary Approach to Human Action Control. 2017 , 21, 940-949	125
496	Volition and Action in the Human Brain: Processes, Pathologies, and Reasons. 2017 , 37, 10842-10847	30
495	A food-predictive cue attributed with incentive salience engages subcortical afferents and efferents of the paraventricular nucleus of the thalamus. 2017 , 340, 135-152	33
494	Effects of Ginsenoside Rg1 on Learning and Memory in a Reward-directed Instrumental Conditioning Task in Chronic Restraint Stressed Rats. 2017 , 31, 81-89	15
493	Cognitive inflexibility in Obsessive-Compulsive Disorder. 2017 , 345, 243-255	96
492	The infralimbic and prelimbic cortices contribute to the inhibitory control of cocaine-seeking behavior during a discriminative stimulus task in rats. 2017 , 22, 1719-1730	18
491	Learning, Reward, and Decision Making. 2017 , 68, 73-100	207
490	Maternal immune activation alters sensitivity to action-outcome contingency in adult rat offspring. 2017 , 63, 81-87	7
489	Chronic administration of the dopamine D agonist ropinirole invigorates performance of a rodent slot machine task, potentially indicative of less distractible or compulsive-like gambling behaviour. 2017 , 234, 137-153	19
488	A hippocampo-cerebellar centred network for the learning and execution of sequence-based navigation. 2017 , 7, 17812	35
487	. 2017 ,	24
486	Reinforcement Learning and Strategic Reasoning During Social Decision-Making. 2017 , 225-231	2
485	Reinforcement Learning and Causal Models. 2017 ,	6

484	Triggering Avoidance: Dissociable Influences of Aversive Pavlovian Conditioned Stimuli on Human Instrumental Behavior. 2017 , 11, 63	16
483	Lever Insertion as a Salient Stimulus Promoting Insensitivity to Outcome Devaluation. 2017 , 11, 23	20
482	Who Has Done It? Exploring Gaze Agency in Obsessive-Compulsive Checkers. 2017 , 11, 39	4
481	Genesis and Maintenance of Attentional Biases: The Role of the Locus Coeruleus-Noradrenaline System. 2017 , 2017, 6817349	31
480	Regulation of actions and habits by ventral hippocampal trkB and adolescent corticosteroid exposure. 2017 , 15, e2003000	25
479	Cognitive Dimension of Operant Learning. 2017 , 85-110	2
478	Understanding the balance between goal-directed and habitual behavioral control. 2018 , 20, 161-168	11
477	Morphological and functional evidence of increased excitatory signaling in the prelimbic cortex during ethanol withdrawal. <i>Neuropharmacology</i> , 2018 , 133, 470-480	5.5 29
476	Impairments in action-outcome learning in schizophrenia. 2018 , 8, 54	13
475	Proprioceptive stimuli and habit formation: Interresponse time mediated behavior in CD-1 mice. 2018 , 150, 29-35	2
474	An incremental off-policy search in a model-free Markov decision process using a single sample path. 2018 , 107, 969-1011	0
473	Towards a better understanding of the cannabinoid-related orphan receptors GPR3, GPR6, and GPR12. 2018 , 50, 74-93	24
472	Animal emotion: Descriptive and prescriptive definitions and their implications for a comparative perspective. 2018 , 205, 202-209	38
471	Evidence of structure and persistence in motivational attraction to serial Pavlovian cues. 2018 , 25, 78-89	14
470	Prefrontal Corticostriatal Disconnection Blocks the Acquisition of Goal-Directed Action. 2018 , 38, 1311-1322	51
469	Lateral preoptic and ventral pallidal roles in locomotion and other movements. 2018 , 223, 2907-2924	15
468	Behavioral Neuroscience of Learning and Memory. 2018 ,	5
467	Surviving threats: neural circuit and computational implications of a new taxonomy of defensive behaviour. 2018 , 19, 269-282	133

466	Behavioral and neurobiological mechanisms of punishment: implications for psychiatric disorders. 2018 , 43, 1639-1650	47
465	An empirical solution to the puzzle of weakness of will. 2018 , 195, 5175-5195	2
464	Parallel basal ganglia circuits for decision making. 2018 , 125, 515-529	26
463	When and Where Learning is Taking Place: Multisynaptic Changes in Strength During Different Behaviors Related to the Acquisition of an Operant Conditioning Task by Behaving Rats. 2018 , 28, 1011-1023	5
462	Primate Ventromedial Prefrontal Cortex Neurons Continuously Encode the Willingness to Engage in Reward-Directed Behavior. 2018 , 28, 73-89	10
461	Insular and Ventrolateral Orbitofrontal Cortices Differentially Contribute to Goal-Directed Behavior in Rodents. 2018 , 28, 2313-2325	47
460	Try and try again: Post-error boost of an implicit measure of agency. 2018 , 71, 1584-1595	16
459	Defining the place of habit in substance use disorders. 2018 , 87, 22-32	37
458	Model-based predictions for dopamine. 2018 , 49, 1-7	70
457	Mapping Compulsivity in the DSM-5 Obsessive Compulsive and Related Disorders: Cognitive Domains, Neural Circuitry, and Treatment. 2018 , 21, 42-58	107
456	Inter-individual differences in decision-making, flexible and goal-directed behaviors: novel insights within the prefronto-striatal networks. 2018 , 223, 897-912	6
455	Behavioral and neural mechanisms underlying habitual and compulsive drug seeking. 2018 , 87, 11-21	42
454	Compulsivity-related neurocognitive performance deficits in gambling disorder: A systematic review and meta-analysis. 2018 , 84, 204-217	58
453	Temporal specificity in Pavlovian-to-instrumental transfer. 2018 , 25, 8-20	3
452	Corticosterone impairs flexible adjustment of spatial navigation in an associative place-reward learning task. 2018 , 29, 351-364	4
451	Consciousness, Representation, Action: The Importance of Being Goal-Directed. 2018 , 22, 137-153	17
450	The Mediodorsal Thalamus: An Essential Partner of the Prefrontal Cortex for Cognition. 2018 , 83, 648-656	104
449	Regulation of habit formation in the dorsal striatum. 2018 , 20, 67-74	33

448	Punishment of alcohol-reinforced responding in alcohol preferring P rats reveals a bimodal population: Implications for models of compulsive drug seeking. 2018 , 87, 68-77	23
447	Social Rewards: From Basic Social Building Blocks to Complex Social Behavior. 2018 , 13, 700-717	33
446	Inferring action-dependent outcome representations depends on anterior but not posterior medial orbitofrontal cortex. 2018 , 155, 463-473	23
445	Know Your Body Through Intrinsic Goals. 2018 , 12, 30	12
444	Control of habitual instrumental actions by anticipation of postingestive sensations. 2018 , 155, 486-497	
443	Making Sense of Rodent Models of Anhedonia. 2018 , 21, 1049-1065	70
442	Dopaminergic Modulation of Goal-Directed Behavior in a Rodent Model of Attention-Deficit/Hyperactivity Disorder. 2018 , 12, 45	13
441	Discretion for behavioral selection affects development of habit formation after extended training in rats. 2018 , 157, 291-300	3
440	Editorial overview: Survival behaviors and circuits. 2018 , 24, 168-171	9
439	Let it go: central neural control of urination. 2018 , 21, 1499-1501	1
438	Volitional social interaction prevents drug addiction in rat models. 2018 , 21, 1520-1529	140
437	Innate visual preferences and behavioral flexibility in. 2018 , 221,	6
436	Permanently online and permanently connected: Development and validation of the Online Vigilance Scale. 2018 , 13, e0205384	37
435	Are we of two minds?. 2018 , 21, 1497-1499	22
434	Instrumental Divergence and Goal-Directed Choice. 2018 , 27-48	2
433	Cortical Determinants of Goal-Directed Behavior. 2018 , 179-197	3
432	Does the Dopaminergic Error Signal Act Like a Cached-Value Prediction Error?. 2018 , 243-258	
431	Drug Addiction: Augmented Habit Learning or Failure of Goal-Directed Control?. 2018 , 367-386	3

430	Goal-Directed Deficits in Schizophrenia. 2018 , 387-406	0
429	The Motivation of Action and the Origins of Reward. 2018 , 429-455	1
428	The application of computational models to social neuroscience: promises and pitfalls. 2018 , 13, 637-647	28
427	Orbital frontal cortex updates state-induced value change for decision-making. 2018 , 7,	29
426	Thalamocortical and corticothalamic pathways differentially contribute to goal-directed behaviors in the rat. 2018 , 7,	38
425	The Bilateral Prefronto-striatal Pathway Is Necessary for Learning New Goal-Directed Actions. 2018 , 28, 2218-2229.e7	42
424	Reward Learning over Weeks Versus Minutes Increases the Neural Representation of Value in the Human Brain. 2018 , 38, 7649-7666	23
423	Pharmacological Blockade of Adenosine A but Not A Receptors Enhances Goal-Directed Valuation in Satiety-Based Instrumental Behavior. 2018 , 9, 393	8
422	Junk Food Exposure Disrupts Selection of Food-Seeking Actions in Rats. 2018 , 9, 350	11
421	The Role of Habits in Anorexia Nervosa: Where We Are and Where to Go From Here?. 2018 , 20, 61	20
420	Contributions of medial prefrontal cortex to decision making involving risk of punishment. <i>Neuropharmacology</i> , 2018 , 139, 205-216	5.5 28
419	A new framework for conceptualizing symptoms in frontotemporal dementia: from animal models to the clinic. 2018 , 141, 2245-2254	8
418	Dissociable roles of the nucleus accumbens D1 and D2 receptors in regulating cue-elicited approach-avoidance conflict decision-making. 2018 , 235, 2233-2244	6
417	Beyond simple tests of value: measuring addiction as a heterogeneous disease of computation-specific valuation processes. 2018 , 25, 501-512	7
416	The 100 Most Cited Papers Concerning the Insular Cortex of the Brain: A Bibliometric Analysis. 2018 , 12, 337	4
415	Reciprocal amygdala-prefrontal interactions in learning. 2018 , 52, 149-155	16
414	From learning to action: the integration of dorsal striatal input and output pathways in instrumental conditioning. 2019 , 49, 658-671	33
413	Dorsal Striatal Circuits for Habits, Compulsions and Addictions. 2019 , 13, 28	37

4 ¹²	Indicators and Criteria of Consciousness in Animals and Intelligent Machines: An Inside-Out Approach. 2019 , 13, 25	17
4 ¹¹	Reward reevaluation biases hippocampal replay content away from the preferred outcome. 2019 , 22, 1450-1459	35
4 ¹⁰	Dystonia and dopamine: From phenomenology to pathophysiology. 2019 , 182, 101678	24
4 ⁰⁹	Aberrant habit formation in the Sapap3-knockout mouse model of obsessive-compulsive disorder. 2019 , 9, 12061	15
4 ⁰⁸	Controversies Surrounding the Pathophysiology of Tics. 2019 , 34, 851-862	14
4 ⁰⁷	Impulsivity and compulsivity are differentially associated with automaticity and routine on the Creature of Habit Scale. 2019 , 150, 109493	16
4 ⁰⁶	Translational approach to apathy-like behavior in mice: From the practical point of view. 2019 , 73, 685-689	2
4 ⁰⁵	Learning. 2019 , 135-164	1
4 ⁰⁴	Development of behavioural automaticity by extended Pavlovian training in an insect. 2019 , 286, 20182132	3
4 ⁰³	Altered monoamine levels in the dorsal striatum of the rat are associated with alterations in behavioural selection and motivation following peripheral nerve injury and acute stress. 2019 , 50, 2786-2800	4
4 ⁰²	Lesions of the Patch Compartment of Dorsolateral Striatum Disrupt Stimulus-Response Learning. 2019 , 415, 161-172	8
4 ⁰¹	A Novel Model for Arbitration Between Planning and Habitual Control Systems. 2019 , 13, 52	2
4 ⁰⁰	Early life stress and the propensity to develop addictive behaviors. 2019 , 78, 156-169	14
399	Learning from Action: Reconsidering Movement Signaling in Midbrain Dopamine Neuron Activity. 2019 , 104, 63-77	38
398	Computational models of motivated frontal function. 2019 , 163, 317-332	1
397	The Meaning of Behavior: Discriminating Reflex and Volition in the Brain. 2019 , 104, 47-62	48
396	Striatal responsiveness to reward under threat-of-shock and working memory load: A preliminary study. 2019 , 9, e01397	7
395	Connecting Model-Based and Model-Free Control With Emotion Modulation in Learning Systems. 2019 , 1-15	5

394	The Bed Nucleus of the Stria Terminalis, Homeostatic Satiety, and Compulsions: What Can We Learn From Polydipsia?. 2019 , 13, 170	3
393	Planning at decision time and in the background during spatial navigation. 2019 , 29, 69-76	16
392	Mental imagery in animals: Learning, memory, and decision-making in the face of missing information. 2019 , 47, 193-216	4
391	Caching mechanisms for habit formation in Active Inference. 2019 , 359, 298-314	10
390	Sign- and goal-tracking rats show differences in various executive functions: Authors. 2019 , 371, 111979	2
389	Operant Learning in Invertebrates. 2019 ,	1
388	Neural circuits in goal-directed and habitual behavior: Implications for circuit dysfunction in obsessive-compulsive disorder. 2019 , 129, 104464	11
387	Ghrelin signalling within the rat nucleus accumbens and skilled reach foraging. 2019 , 106, 183-194	8
386	Dopaminergic Vulnerability in Parkinson Disease: The Cost of Humans' Habitual Performance. 2019 , 42, 375-383	13
385	Reinforcement Learning, Fast and Slow. 2019 , 23, 408-422	171
384	Neurostimulation Reveals Context-Dependent Arbitration Between Model-Based and Model-Free Reinforcement Learning. 2019 , 29, 4850-4862	11
383	Motivating operations and stimulus control. 2019 , 112, 1-9	21
382	Reinforcement learning in artificial and biological systems. 2019 , 1, 133-143	88
381	Hippocampal Contributions to Model-Based Planning and Spatial Memory. 2019 , 102, 683-693.e4	70
380	Inflexible habitual decision-making during choice between cocaine and a nondrug alternative. 2019 , 9, 109	13
379	Boredom-Driven Curious Learning by Homeo-Heterostatic Value Gradients. 2018 , 12, 88	2
378	Acute alcohol and cognition: Remembering what it causes us to forget. 2019 , 79, 105-125	28
377	Compulsivity in Alcohol Use Disorder and Obsessive Compulsive Disorder: Implications for Neuromodulation. 2019 , 13, 70	11

376	A Reward-Based Framework of Perceived Control. 2019 , 13, 65		33
375	Hierarchical Action Control: Adaptive Collaboration Between Actions and Habits. 2019 , 10, 2735		22
374	Model-Based and Model-Free Social Cognition: Investigating the Role of Habit in Social Attitude Formation and Choice. 2019 , 10, 2592		8
373	Reduced Medial Prefrontal Control of Palatable Food Consumption Is Associated With Binge Eating Proneness in Female Rats. 2019 , 13, 252		6
372	Task complexity interacts with state-space uncertainty in the arbitration between model-based and model-free learning. 2019 , 10, 5738		14
371	Nicotine enhances responding for conditioned reinforcement via $\alpha 4$ nicotinic acetylcholine receptors in the ventral tegmental area, but not the nucleus accumbens or the prefrontal cortex. <i>Neuropharmacology</i> , 2019 , 148, 68-76	5.5	2
370	Action-Outcome Knowledge Dissociates From Behavior in Obsessive-Compulsive Disorder Following Contingency Degradation. 2019 , 4, 200-209		22
369	Cognitive Neuroscience of Eating Disorders. 2019 , 42, 75-91		25
368	Habit and physical activity: Theoretical advances, practical implications, and agenda for future research. 2019 , 42, 118-129		128
367	Same fear responses, less avoidance: Rewards competing with aversive outcomes do not buffer fear acquisition, but attenuate avoidance to accelerate subsequent fear extinction. 2019 , 112, 1-11		22
366	Stress as a context: Stress causes relapse of inhibited food seeking if it has been associated with prior food seeking. 2019 , 132, 131-138		13
365	Medial prefrontal cortex neuropeptide Y modulates binge-like ethanol consumption in C57BL/6J mice. 2019 , 44, 1132-1140		13
364	Risky decision-making is associated with impulsive action and sensitivity to first-time nicotine exposure. 2019 , 359, 579-588		17
363	Translational tests involving non-reward: methodological considerations. 2019 , 236, 449-461		8
362	The Fyn kinase inhibitor, AZD0530, suppresses mouse alcohol self-administration and seeking. 2019 , 24, 1227-1234		8
361	Activity of Prefrontal Neurons Predict Future Choices during Gambling. 2019 , 101, 152-164.e7		15
360	Habit-like attention. 2019 , 29, 65-70		10
359	An Integrated Model of Action Selection: Distinct Modes of Cortical Control of Striatal Decision Making. 2019 , 70, 53-76		42

358	Impaired awareness of action-outcome contingency and causality during healthy ageing and following ventromedial prefrontal cortex lesions. 2019 , 128, 282-289	14
357	Pre-training inactivation of basolateral amygdala and mediodorsal thalamus, but not orbitofrontal cortex or prelimbic cortex, impairs devaluation in a multiple-response/multiple-reinforcer cued operant task. 2020 , 378, 112159	3
356	Fractionating the all-or-nothing definition of goal-directed and habitual decision-making. 2020 , 98, 998-1006	9
355	Striatopallidal Pathway Distinctly Modulates Goal-Directed Valuation and Acquisition of Instrumental Behavior via Striatopallidal Output Projections. 2020 , 30, 1366-1381	2
354	Learning, memory and consolidation mechanisms for behavioral control in hierarchically organized cortico-basal ganglia systems. 2020 , 30, 73-98	22
353	Reinforcement learning in social interaction: The distinguishing role of trait inference. 2020 , 88, 103948	13
352	Pain Unstuck: The Role of Action and Motivation. 2020 , 36, 143-149	8
351	Learning to lose control: A process-based account of behavioral addiction. 2020 , 108, 771-780	20
350	Involvement of the rodent prelimbic and medial orbitofrontal cortices in goal-directed action: A brief review. 2020 , 98, 1020-1030	15
349	Perturbations in the Activity of Cholinergic Interneurons in the Dorsomedial Striatum Impairs the Update of Actions to an Instrumental Contingency Change. 2020 , 439, 287-300	1
348	Neural mechanisms of persistent avoidance in OCD: A novel avoidance devaluation study. 2020 , 28, 102404	3
347	Targeted Stimulation of an Orbitofrontal Network Disrupts Decisions Based on Inferred, Not Experienced Outcomes. 2020 , 40, 8726-8733	9
346	Rapid approach-avoidance responses to emotional displays reflect value-based decisions: Neural evidence from an EEG study. 2020 , 222, 117253	4
345	Dimensions of Animal Consciousness. 2020 , 24, 789-801	38
344	Central oxytocin signaling inhibits food reward-motivated behaviors and VTA dopamine responses to food-predictive cues in male rats. 2020 , 126, 104855	7
343	References. 2020 , 199-253	
342	Deep Reinforcement Learning and Its Neuroscientific Implications. 2020 , 107, 603-616	37
341	Sustaining temporal attention prevents habit expression during operant learning in rats. 2020 , 10, 10303	

340	Reward-predictive cues elicit excessive reward seeking in adolescent rats. 2020 , 45, 100838	3
339	Prefrontal regulation of behavioural control: Evidence from learning theory and translational approaches in rodents. 2020 , 118, 27-41	4
338	Functional networks activated by controllable and uncontrollable stress in male and female rats. 2020 , 13, 100233	3
337	Abnormal reinforcement learning in a mice model of autism induced by prenatal exposure to valproic acid. 2020 , 395, 112836	3
336	Selective Deficits in Contingency-Driven Ethanol Seeking Following Chronic Ethanol Exposure in Male Mice. 2020 , 44, 1896-1905	4
335	The Cerebellum on Cocaine. 2020 , 14, 586574	6
334	Parallel model-based and model-free reinforcement learning for card sorting performance. 2020 , 10, 15464	5
333	Beyond dichotomies in reinforcement learning. 2020 , 21, 576-586	25
332	Dopamine D2 receptor signaling on iMSNs is required for initiation and vigor of learned actions. 2020 , 45, 2087-2097	6
331	A computational model of language functions in flexible goal-directed behaviour. 2020 , 10, 21623	4
330	Does Neuroscience Have Normative Implications?. 2020 ,	
329	Sentience and the Origins of Consciousness: From Cartesian Duality to Markovian Monism. 2020 , 22,	52
328	Prefrontal Cortex Representation of Learning of Punishment Probability During Reward-Motivated Actions. 2020 , 40, 5063-5077	8
327	Role of psychopathic personality traits on the micro-structure of free-operant responding: impacts on goal-directed but not stimulus-drive responses in extinction. 2020 , 163, 110055	1
326	Habitual Behavior Is Goal-Driven. 2020 , 15, 1256-1271	25
325	Pubertal stress decreases sexual motivation and supresses the relation between cerebral theta rhythms and testosterone levels in adult male rats. 2020 , 1745, 146937	0
324	Brain Network Underlying Executive Functions in Gambling and Alcohol Use Disorders: An Activation Likelihood Estimation Meta-Analysis of fMRI Studies. 2020 , 10,	11
323	Habitual Preference for the Nondrug Reward in a Drug Choice Setting. 2020 , 14, 78	5

322	Subcortical Dopamine and Cognition in Schizophrenia: Looking Beyond Psychosis in Preclinical Models. 2020 , 14, 542	12
321	A Mobile Phone App for the Generation and Characterization of Motor Habits. 2019 , 10, 2850	1
320	A Neuro-computational Account of Arbitration between Choice Imitation and Goal Emulation during Human Observational Learning. 2020 , 106, 687-699.e7	29
319	Human free-operant performance varies with a concurrent task: Probability learning without a task, and schedule-consistent with a task. 2020 , 48, 254-273	3
318	The neurochemical substrates of habitual and goal-directed control. 2020 , 10, 84	8
317	Intact corticostriatal control of goal-directed action in Alcohol Use Disorder: a Pavlovian-to-instrumental transfer and outcome-devaluation study. 2020 , 10, 4949	7
316	How Sequential Interactive Processing Within Frontostriatal Loops Supports a Continuum of Habitual to Controlled Processing. 2020 , 11, 380	3
315	Factors Influencing Manipulation of a Familiar Object in Patients With Limb Apraxia After Stroke. 2019 , 13, 465	2
314	The neurobehavioral mechanisms of motivational control in attention-deficit/hyperactivity disorder. 2020 , 127, 191-207	2
313	A-learning: A new formulation of associative learning theory. 2020 , 27, 1166-1194	4
312	Effects on goal directed behavior and habit in two animal models of Parkinson's disease. 2020 , 169, 107190	1
311	Striatopallidal adenosine A receptors in the nucleus accumbens confer motivational control of goal-directed behavior. <i>Neuropharmacology</i> , 2020 , 168, 108010	5.5 2
310	Avoidance and its bi-directional relationship with conditioned fear: Mechanisms, moderators, and clinical implications. 2020 , 126, 103550	36
309	Complementary Control over Habits and Behavioral Vigor by Phasic Activity in the Dorsolateral Striatum. 2020 , 40, 2139-2153	6
308	Targeted Stimulation of Human Orbitofrontal Networks Disrupts Outcome-Guided Behavior. 2020 , 30, 490-498.e4	26
307	Evidence for a dissociation between causal beliefs and instrumental actions. 2020 , 73, 495-503	3
306	Local D2- to D1-neuron transmodulation updates goal-directed learning in the striatum. 2020 , 367, 549-555	23
305	Unraveling the Mysteries of Motivation. 2020 , 24, 425-434	7

304	Dorsomedial prefrontal cortex and hippocampus represent strategic context even while simultaneously changing representation throughout a task session. 2020 , 171, 107215	7
303	Dimensions of sucrose solutions in the successive negative contrast effect. 2020 , 69, 101615	2
302	Discovery of hierarchical representations for efficient planning. 2020 , 16, e1007594	15
301	The two-step task, avoidance, and OCD. 2020 , 98, 1007-1019	4
300	Goal-oriented and habitual decisions: Neural signatures of model-based and model-free learning. 2020 , 215, 116834	16
299	Cognitive Models Are Distinguished by Content, Not Format. 2021 , 88, 83-102	2
298	Is Synchronic Self-Control Possible?. 2021 , 12, 397-424	1
297	The Anterior Cingulate Cortex Predicts Future States to Mediate Model-Based Action Selection. 2021 , 109, 149-163.e7	17
296	Adaptive behaviour under conflict: Deconstructing extinction, reversal, and active avoidance learning. 2021 , 120, 526-536	3
295	Mitogen-activated protein kinase (MAPK) signalling corresponds with distinct behavioural profiles in a rat model of maternal immune activation. 2021 , 396, 112876	4
294	Multi-step planning in the brain. 2021 , 38, 29-39	8
293	Feeding the addiction: Narrowing of goals to habits. 2021 , 42, 110-114	1
292	The thalamus integrates the macrosystems of the brain to facilitate complex, adaptive brain network dynamics. 2021 , 199, 101951	28
291	What is dopamine doing in model-based reinforcement learning?. 2021 , 38, 74-82	5
290	A Circuit-Based Information Approach to Substance Abuse Research. 2021 , 44, 122-135	9
289	Habit, choice, and addiction. 2021 , 46, 689-698	12
288	Instrumental and Pavlovian Mechanisms in Alcohol Use Disorder. 2021 , 8, 156-180	2
287	Nicotine Pretreatment Increases Sensitivity to Reward Devaluation in Extinction. 2021 , 71, 143-148	

286	Activation of glucagon-like peptide-1 receptors and skilled reach foraging. 2021 , 26, e12953	2
285	Whole brain dynamics during optogenetic self-stimulation of the medial prefrontal cortex in mice. 2021 , 4, 66	3
284	Neuropsychiatric effects of subthalamic deep brain stimulation. 2021 , 180, 417-431	2
283	β-Synuclein Selectively Impairs Motor Sequence Learning and Value Sensitivity: Reversal by the Adenosine A2A Receptor Antagonists. 2021 ,	0
282	Balancing costs and benefits in primates: ecological and palaeoanthropological views. 2021 , 376, 20190667	3
281	Controlling one's world: identification of sub-regions of primate PFC underlying goal-directed behavior.	0
280	Recent Developments in the Habit Hypothesis of OCD and Compulsive Disorders. 2021 , 49, 147-167	1
279	Medial prefrontal cortex encoding of stress and anxiety. 2021 , 158, 29-55	4
278	Lipopolysaccharide does not alter behavioral response to successive negative contrast in mice. 2021 , 238, 691-697	1
277	Stress diminishes outcome but enhances response representations during instrumental learning.	1
276	Interaction between decision-making and interoceptive representations of bodily arousal in frontal cortex.	0
275	Using model-based neuroimaging to adjudicate structured and continuous representational accounts in same-different categorization and beyond. 2021 , 37, 103-108	0
274	The effects of fatty acid amide hydrolase inhibition and monoacylglycerol lipase inhibition on habit formation in mice. 2021 ,	1
273	Spatially restricted inhibition of cholinergic interneurons in the dorsolateral striatum encourages behavioral exploration. 2021 , 53, 2567-2579	0
272	Chronic Stress Prevents Cortico-Accumbens Cue Encoding and Alters Conditioned Approach. 2021 , 41, 2428-2436	0
271	Distinct foraging strategies generated by single-action behavioural flexibility.	1
270	Addiction history moderates the effect of prefrontal 10-Hz transcranial alternating current stimulation on habitual action selection. 2021 , 125, 768-780	2
269	Parafascicular Thalamic and Orbitofrontal Cortical Inputs to Striatum Represent States for Goal-Directed Action Selection. 2021 , 15, 655029	1

268	A bidirectional corticoamygdala circuit for the encoding and retrieval of detailed reward memories.	
267	Neural Mechanisms of Observational Learning: A Neural Working Model. 2020 , 14, 609312	1
266	Unveiling the neural correlates of habit in the dorsal striatum.	1
265	Excitatory synaptogenesis in the anterior cingulate cortex is required for effort/reward evaluation.	
264	Neural Correlates of Hand-Object Congruency Effects during Action Planning. 2021 , 33, 1487-1503	0
263	How usefulness shapes neural representations during goal-directed behavior. 2021 , 7,	3
262	Central Thalamic-Medial Prefrontal Control of Adaptive Responding in the Rat: Many Players in the Chamber. 2021 , 15, 642204	1
261	Primate ventral striatum maintains neural representations of the value of previously rewarded objects for habitual seeking. 2021 , 12, 2100	2
260	Economic choice between remifentanil and food in squirrel monkeys. 2021 ,	2
259	To be specific: The role of orbitofrontal cortex in signaling reward identity. 2021 , 135, 210-217	2
258	The medial orbitofrontal cortex - basolateral amygdala circuit regulates the influence of reward cues on adaptive behavior and choice.	0
257	Selective Devaluation Affects the Processing of Preferred Rewards. 2021 , 21, 1010-1025	5
256	Organization of Afferents along the Anterior-posterior and Medial-lateral Axes of the Rat Orbitofrontal Cortex. 2021 , 460, 53-68	9
255	Advances in understanding meso-cortico-limbic-striatal systems mediating risky reward seeking. 2021 , 157, 1547-1571	4
254	Rigid reduced successor representation as a potential mechanism for addiction. 2021 , 53, 3768-3790	2
253	Prelimbic prefrontal cortical encoding of reward predictive cues. 2021 , 75, e22202	0
252	Mice are not automatons; subjective experience in premotor circuits guides behavior.	0
251	Expediting discovery in Neural Architecture Search by Combining Learning with Planning. 2021 ,	

250	Striatal Astrocytes Shape Behavioral Flexibility via Regulation of the Glutamate Transporter EAAT2. 2021 , 89, 1045-1057	5
249	A bidirectional corticoamygdala circuit for the encoding and retrieval of detailed reward memories. 2021 , 10,	6
248	Revisiting positive affect and reward influences on cognitive control. 2021 , 39, 27-33	6
247	Cell adhesion factors during adolescence support amygdalo-cortical connections and flexible action later in life.	
246	The effects of the dopamine D2/3 agonist quinpirole on incentive value and palatability-based choice in a rodent model of attention-deficit/hyperactivity disorder. 2021 , 238, 3143-3153	
245	The Medial Orbitofrontal Cortex-Basolateral Amygdala Circuit Regulates the Influence of Reward Cues on Adaptive Behavior and Choice. 2021 , 41, 7267-7277	4
244	Impaired Learning From Negative Feedback in Stimulant Use Disorder: Dopaminergic Modulation. 2021 , 24, 867-878	1
243	Fluoxetine Potentiates Oral Methylphenidate-Induced Gene Regulation in the Rat Striatum. 2021 , 58, 4856-4870	0
242	Reward-specific satiety affects subjective value signals in orbitofrontal cortex during multicomponent economic choice. 2021 , 118,	2
241	Secondary rewards acquire enhanced incentive motivation via increasing anticipatory activity of the lateral orbitofrontal cortex. 2021 , 226, 2339-2355	0
240	Outcome-selective reinstatement is partially context-dependent, and associated with c-Fos activation in the posterior dorsomedial striatum.	
239	Consolidating the Circuit Model for Addiction. 2021 , 44, 173-195	8
238	Problematic eating as an issue of habitual control. 2021 , 110, 110294	0
237	Foraging with the frontal cortex: A cross-species evaluation of reward-guided behavior. 2022 , 47, 134-146	4
236	Interaction between decision-making and interoceptive representations of bodily arousal in frontal cortex. 2021 , 118,	3
235	Dorsolateral Striatal Task-initiation Bursts Represent Past Experiences More than Future Action Plans. 2021 , 41, 8051-8064	1
234	Prefrontal cortex and depression. 2022 , 47, 225-246	10
233	Computational models of adaptive behavior and prefrontal cortex. 2022 , 47, 58-71	3

232	Controlling one's world: Identification of sub-regions of primate PFC underlying goal-directed behavior. 2021 , 109, 2485-2498.e5	7
231	Prefrontal cortex neural compensation during an operant devaluation task.	
230	Metabotropic group II glutamate receptors mediate cue-triggered increases in incentive motivation for reward.	
229	Coherent theta activity in the medial and orbital frontal cortices encodes reward value. 2021 , 10,	2
228	The effects of spatial stability and cue type on spatial learning: Implications for theories of parallel memory systems. 2021 , 214, 104802	2
227	Inactivation of posterior but not anterior dorsomedial caudate-putamen impedes learning with self-administered nicotine stimulus in male rats. 2021 , 413, 113438	
226	Extended operant training increases infralimbic and prelimbic cortex Fos regardless of fear conditioning experience. 2021 , 414, 113476	0
225	The Physiological Control of Eating: Signals, Neurons, and Networks. 2021 ,	8
224	Pharmacologically induced N-methyl-D-aspartate receptor hypofunction impairs goal-directed food seeking in rats. 2021 ,	1
223	The dorsomedial striatum: an optimal cellular environment for encoding and updating goal-directed learning. 2021 , 41, 38-44	1
222	Value-free reinforcement learning: policy optimization as a minimal model of operant behavior. 2021 , 41, 114-121	1
221	The contextual regulation of goal-directed actions. 2021 , 41, 57-62	2
220	Clueless about cues: the impact of reward-paired cues on decision making under uncertainty. 2021 , 41, 167-174	0
219	Internal manipulation of perceptual representations in human flexible cognition: A computational model. 2021 , 143, 572-594	1
218	When the front fails, the rear wins. Cerebellar correlates of prefrontal dysfunction in cocaine-induced memory in male rats. 2022 , 112, 110429	0
217	Prefrontal Solution to the Bias-Variance Tradeoff During Reinforcement Learning.	
216	Neural Mechanisms of Human Decision-Making. 2021 , 21, 35-57	0
215	Neuroimaging, Adolescence, and Risky Behavior. 2011 , 101-122	4

214	Dual-System Learning Models and Drugs of Abuse. 2012 , 145-161	7
213	Modeling Decision-Making Systems in Addiction. 2012 , 163-187	4
212	Encyclopedia of Computational Neuroscience. 2014 , 1-17	2
211	A Psychological Perspective on Money. 2014 , 3-19	2
210	The Role of the Dorsal Striatum in Instrumental Conditioning. 2011 , 55-69	5
209	Design of a Control Architecture for Habit Learning in Robots. 2014 , 249-260	10
208	Collective Agency and Cooperation in Natural and Artificial Systems. 2015 , 3-24	11
207	Animal Anticipation: A Perspective. 2017 , 1-13	1
206	Cognitive and Stimulus-Response Habit Functions of the Neo-(Dorsal) Striatum. 2016 , 413-456	2
205	Action Discovery and Intrinsic Motivation: A Biologically Constrained Formalisation. 2013 , 151-181	9
204	The Hierarchical Organisation of Cortical and Basal-Ganglia Systems: A Computationally-Informed Review and Integrated Hypothesis. 2013 , 237-270	11
203	Restoring Purpose in Behavior. 2013 , 319-347	15
202	The Cognitive Control of Goal-Directed Action: How Predictive Learning Affects Choice. 2016 , 27-33	1
201	Neuronal connections of the central amygdalar nucleus with refeeding-activated brain areas in rats. 2018 , 223, 391-414	10
200	Values and Actions in Aversion. 2009 , 175-191	22
199	Prediction and control of operant behavior: What you see is not all there is. 2019 , 19, 202-212	3
198	Habits without values. 2019 , 126, 292-311	74
197	Stimulus control of actions and habits: A role for reinforcer predictability and attention in the development of habitual behavior. 2018 , 44, 370-384	23

196	Context and renewal of habits and goal-directed actions after extinction. 2020 , 46, 408-421	7
195	The role of feedback contingency in perceptual category learning. 2016 , 42, 1731-1746	10
194	Habits without Values.	6
193	The successor representation in human reinforcement learning.	9
192	Anterior cingulate cortex represents action-state predictions and causally mediates model-based reinforcement learning in a two-step decision task.	9
191	The algorithmic neuroanatomy of action-outcome learning.	2
190	Reward learning over weeks versus minutes increases the neural representation of value in the human brain.	2
189	Amygdala-cortical control of striatal plasticity drives the acquisition of goal-directed action.	0
188	Organisation of afferents along the anterior-posterior and medial-lateral axes of the rat orbitofrontal cortex.	1
187	Serotonin neurons modulate learning rate through uncertainty.	5
186	Wanting to like: Motivation influences behavioral and neural responses to social feedback.	3
185	Discovery of Hierarchical Representations for Efficient Planning.	4
184	Humans can navigate complex graph structures acquired during latent learning.	2
183	A theory of actions and habits: The interaction of rate correlation and contiguity systems in free-operant behavior.	5
182	Reduction of contextual control of conditioned responses by extended Pavlovian training in an insect. 2021 , 28, 17-23	1
181	The Arbitrary Mapping of Sensory Inputs to Voluntary and Involuntary Movement. 2004 ,	4
180	What Can Different Brains Do with Reward?. 2011 , 81-116	6
179	Reward Predictions and Computations. 2011 , 311-327	1

178	What Can Different Brains Do with Reward?. 2011 , 61-96	9
177	HD mouse models reveal clear deficits in learning to perform a simple instrumental response. 2011 , 3, RRN1282	6
176	CACNA1C gene regulates behavioral strategies in operant rule learning. 2017 , 15, e2000936	10
175	A generative spiking neural-network model of goal-directed behaviour and one-step planning. 2020 , 16, e1007579	4
174	Policy adjustment in a dynamic economic game. 2006 , 1, e103	46
173	The role of the rat medial prefrontal cortex in adapting to changes in instrumental contingency. 2012 , 7, e33302	13
172	Dynamic changes in single unit activity and oscillations in a thalamocortical circuit during rapid instrumental learning. 2012 , 7, e50578	15
171	Repeated cocaine exposure facilitates the expression of incentive motivation and induces habitual control in rats. 2013 , 8, e61355	82
170	Impairments in goal-directed actions predict treatment response to cognitive-behavioral therapy in social anxiety disorder. 2014 , 9, e94778	38
169	Dual reward prediction components yield Pavlovian sign- and goal-tracking. 2014 , 9, e108142	8
168	Prefrontal Neurons Encode Actions and Outcomes in Conjunction with Spatial Location in Rats Performing a Dynamic Delayed Non-Match to Position Task. 2016 , 11, e0149019	9
167	Personality and predisposition to form habit behaviours during instrumental conditioning in horses (<i>Equus caballus</i>). 2017 , 12, e0171010	5
166	Caudal Nucleus Accumbens Core Is Critical in the Regulation of Cue-Elicited Approach-Avoidance Decisions. 2017 , 4,	21
165	Basolateral Amygdala to Orbitofrontal Cortex Projections Enable Cue-Triggered Reward Expectations. 2017 , 37, 8374-8384	99
164	Sleep Deprivation Promotes Habitual Control over Goal-Directed Control: Behavioral and Neuroimaging Evidence. 2017 , 37, 11979-11992	17
163	Nominal Wage Adjustment, Demand Shortage And Economic Policy.	2
162	The Pathophysiology of Tics; An Evolving Story. 2020 , 15, 92-123	2
161	Habit formation. 2016 , 18, 33-43	66

160	Context, emotion, and the strategic pursuit of goals: interactions among multiple brain systems controlling motivated behavior. 2012 , 6, 50	109
159	The Cognitive Drivers of Compulsive Eating Behavior. 2018 , 12, 338	24
158	Video Game Addiction and Emotional States: Possible Confusion Between Pleasure and Happiness?. 2019 , 10, 2894	8
157	Neuroeconomics, decision-making and rationality. 2011 , 13-32	1
156	A Primer on Reinforcement Learning in the Brain. 2011 , 111-144	10
155	Basolateral Amygdala Inactivation Reduces Sexual Motivation in Male Rats during Performance of a T-Maze Task with a Sexual Reward. 2014 , 04, 223-233	2
154	Z-Score EEG Biofeedback: Past, Present, and Future. 2019 , 47, 89-103	2
153	Mouse V1 population correlates of visual detection rely on heterogeneity within neuronal response patterns. 2015 , 4, e10163	26
152	Mesolimbic dopamine projections mediate cue-motivated reward seeking but not reward retrieval in rats. 2019 , 8,	22
151	Punishment insensitivity emerges from impaired contingency detection, not aversion insensitivity or reward dominance. 2019 , 8,	8
150	Striatal direct and indirect pathway neurons differentially control the encoding and updating of goal-directed learning. 2020 , 9,	10
149	Distinct temporal difference error signals in dopamine axons in three regions of the striatum in a decision-making task. 2020 , 9,	12
148	Inhibition of vascular adhesion protein 1 protects dopamine neurons from the effects of acute inflammation and restores habit learning in the striatum. 2021 , 18, 233	1
147	The learning of prospective and retrospective cognitive maps within neural circuits. 2021 , 109, 3552-3575	2
146	Striatal topographical organization: Bridging the gap between molecules, connectivity and behavior. 2021 , 65,	0
145	New functions of the rodent prelimbic and infralimbic cortex in instrumental behavior. 2021 , 185, 107533	1
144	Brain Systems Mediating Reward. 2004 , 445-470	
143	Cognitive Processes. 2004 , 422-435	

- 142 Dopaminergic and Serotonergic Modulation of Two Distinct Forms of Flexible Cognitive Control: Attentional Set-Shifting and Reversal Learning. **2007**, 283-312
- 141 Animal Neuropsychology. **2008**, 125-170
- 140 Subliminal Motivation of the Human Brain. **2011**, 175-190
- 139 Diet as an Analgesic Modality. **2011**, 33-66
- 138 Simulation and Anticipation as Tools for Coordinating with the Future. **2013**, 117-125
- 137 Computational and Robotic Models of the Hierarchical Organization of Behavior: An Overview. **2013**, 1-10
- 136 Intoxicants and Compulsive Behaviour: A Neuroscientific Perspective. **2013**, 210-231
- 135 On Persistent Demand Shortages: A Behavioural Approach. **2016**, 191-226
- 134 The Basal Ganglia Contribution to Controlled and Automatic Processing. **2016**, 243-259
- 133 Targeting Mechanisms of Typical Indications of Acupuncture. **2018**, 61-89 1
- 132 A Double Error Dynamic Asymptote Model of Associative Learning.
- 131 Action-outcome knowledge dissociates from behavior in obsessive-compulsive disorder following contingency degradation. 1
- 130 Neural mechanisms underlying dynamic changes of active maternal behavior in rodents. **2018**, 26, 1417
- 129 Innate visual preferences and behavioral flexibility in *Drosophila*. 2
- 128 Mesolimbic dopamine projections mediate cue-motivated reward seeking but not reward retrieval.
- 127 Two Sides of the Same Coin: The Hippocampus as a Common Neural Substrate for Model-Based Planning and Spatial Memory.
- 126 Reward revaluation biases hippocampal replay content away from the preferred outcome. 1
- 125 Task complexity interacts with state-space uncertainty in the arbitration process between model-based and model-free reinforcement-learning at both behavioral and neural levels. 1

- 124 A data-driven approach to the automated mapping of functional brain topographies across species.
- 123 The dorsolateral striatum regulates habits by way of performance vigor when actions are initiated.
- 122 Animal Anticipation: A Perspective. **2019**, 235-247 2
- 121 Targeted stimulation of human orbitofrontal networks disrupts outcome-guided behavior.
- 120 D1 and D2 systems converge in the striatum to update goal-directed learning. 1
- 119 Neuro-computational account of arbitration between imitation and emulation during human observational learning.
- 118 A spiking neural-network model of goal-directed behaviour. 1
- 117 Awareness in Fish. **2020**, 185-210 1
- 116 Targeted stimulation of an orbitofrontal network disrupts decisions based on inferred, not experienced outcomes. 1
- 115 Central oxytocin signaling inhibits food reward-motivated behaviors and VTA dopamine responses to food-predictive cues in male rats.
- 114 Inactivation of posterior but not anterior dorsomedial caudate-putamen impedes learning with self-administered nicotine stimulus.
- 113 Distinct temporal difference error signals in dopamine axons in three regions of the striatum in a decision-making task. 2
- 112 New directions in modelling dysregulated reward seeking for food and drugs. **2021**, 132, 1037-1037 1
- 111 Prefrontal solution to the bias-variance tradeoff during reinforcement learning.
- 110 Does positive feeling lead to more impulsiveness? - Implication of previous rewarded experience on location-dependent motoric impulsivity. **2021**, 64, 218-224
- 109 Plasticity of the glutamate transporter EAAT2 on striatal astrocytes regulates flexibility in behavior.
- 108 Punishment insensitivity emerges from impaired contingency detection, not aversion insensitivity or reward dominance. 0
- 107 Repetitive Transcranial Magnetic Stimulation in Addiction. **2020**, 135-160

- 106 The Reactive Roots of Retribution: Normative Implications of the Neuroscience of Punishment. **2020**, 111-136 1
- 105 Reduced Neuronal Value Signals in Monkey Orbitofrontal Cortex during Relative Reward-Specific Satiety of Two-Component Choice Options.
- 104 Striatal direct and indirect pathway neurons differentially control the encoding and updating of goal-directed learning.
- 103 Dorsal striatum coding for the timely execution of action sequences.
- 102 Effective Connectivity during an Avoidance-Based Pavlovian-to-Instrumental Transfer Task. **2021**, 11, 0
- 101 Reward-specific satiety affects subjective value signals in orbitofrontal cortex during multi-component economic choice.
- 100 From Goals to Habits |A View from the Network. **2009**, 165-185
- 99 Neural correlates of hand-object congruency effects during action planning.
- 98 Optogenetic interrogation of the role of striatal patches in habit formation and inhibition of striatal dopamine.
- 97 Reduced Successor Representation Potentially Interferes with Cessation of Habitual Reward-Seeking.
- 96 Coherent theta activity in the medial and orbital frontal cortices encodes reward value.
- 95 Explicit knowledge of task structure is the primary determinant of human model-based action. 0
- 94 Goal-directed decision making in prefrontal cortex: A computational framework. **2009**, 21, 169-176 13
- 93 Dorsolateral striatal lesions impair navigation based on landmark-goal vectors but facilitate spatial learning based on a "cognitive map". **2015**, 22, 179-91 7
- 92 Dorsolateral striatal lesions impair navigation based on landmark-goal vectors but facilitate spatial learning based on a "cognitive map" **2015**, 22, 179-191 21
- 91 Outcome-selective reinstatement is predominantly context-independent, and associated with c-Fos activation in the posterior dorsomedial striatum. **2021**, 187, 107556 0
- 90 Stress deceleration theory |Chronic adolescent stress exposure results in decelerated neurobehavioral maturation.
- 89 Brain substrates for automatic retrieval of value memory in the primate basal ganglia. **2021**, 14, 168 0

88	Evolution and neural representation of mammalian cooperative behavior. 2021 , 37, 110029	0
87	CRF-receptor1 modulation of the dopamine projection to prelimbic cortex facilitates cognitive flexibility after acute and chronic stress.. 2022 , 16, 100424	0
86	Group value learned through interactions with members: A reinforcement learning account. 2022 , 99, 104267	0
85	Planning in the brain.. 2022 ,	3
84	Putting the "mental" back in "mental disorders": a perspective from research on fear and anxiety.. 2022 ,	7
83	Striatal dopamine encodes the relationship between actions and reward.	0
82	Pathologies of precision: A Bayesian account of goals, habits, and episodic foresight in addiction.. 2022 , 158, 105843	0
81	Animal models of action control and cognitive dysfunction in Parkinson's disease.. 2022 , 269, 227-255	
80	Serotonin neurons modulate learning rate through uncertainty.. 2021 ,	4
79	The rodent medial prefrontal cortex and associated circuits in orchestrating adaptive behavior under variable demands.. 2022 , 104569	1
78	Striatal dopamine signals are region specific and temporally stable across action-sequence habit formation.. 2022 ,	4
77	Prefrontal solution to the bias-variance tradeoff during reinforcement learning.. 2021 , 37, 110185	
76	Hippocampal Subfields in Mild Cognitive Impairment: Associations with Objective and Informant-Report of Memory Function.. 2022 ,	0
75	Learning of probabilistic punishment as a model of anxiety produces changes in action but not punishment encoding in the dmPFC and VTA.	
74	The neural bases of action-outcome learning in humans.. 2022 ,	1
73	Cortico-striatal control over adaptive goal-directed responding elicited by cues signaling sucrose reward or punishment.. 2022 ,	0
72	Indicators and criteria of consciousness: ethical implications for the care of behaviourally unresponsive patients.. 2022 , 23, 30	0
71	Metabotropic group II glutamate receptors mediate cue-triggered increases in reward-seeking behaviour.. 2022 , 1	

70	Goal-directed recruitment of Pavlovian biases through selective visual attention.	0
69	Effects of Chronic Alcohol Exposure on Motivation-Based Value Updating.. 2022 ,	
68	Avoidance of learnt fear: Models, potential mechanisms, and future directions.. 2022 , 151, 104056	2
67	Cyclic estrogen and progesterone during instrumental acquisition contributes to habit formation in female rats.. 2022 , 142, 105172	0
66	Humans can navigate complex graph structures acquired during latent learning.. 2022 , 225, 105103	0
65	Spatial learning correlates with decreased hippocampal activity in the goal-directed behavior of pigeons. 2021 , 2021, 558-561	
64	Quantifying the instrumental and noninstrumental underpinnings of Pavlovian responding with the Price equation.. 2021 , 1	0
63	Dopamine enhances model-free credit assignment through boosting of retrospective model-based inference. 2021 , 10,	1
62	Dopamine, behavior, and addiction. 2021 , 28, 83	1
61	Determining the effects of training duration on the behavioral expression of habitual control in humans: a multilaboratory investigation.. 2022 , 29, 16-28	1
60	Image_1.tiff. 2019 ,	
59	Table_1.DOCX. 2019 ,	
58	Table_2.DOCX. 2019 ,	
57	Table_3.DOCX. 2019 ,	
56	Table_4.DOCX. 2019 ,	
55	Data_Sheet_1.PDF. 2019 ,	
54	Table_1.DOCX. 2020 ,	
53	Table_1.docx. 2017 ,	

52 Table_1.docx. 2019,

51 The motivational control of human action, its neural bases and functional impact in OCD.

50 Fast and slow contributions to decision-making in corticostriatal circuits.. 2022,

1

49 Attentional economics links value-modulated attentional capture and decision-making.

1

48 Explicit knowledge of task structure is a primary determinant of human model-based action.. 2022,

0

47 Neurocircuit dynamics of arbitration between decision-making strategies across obsessive-compulsive and related disorders. 2022, 103073

0

46 How to pin a compulsive behavior down: A systematic review and conceptual synthesis of compulsivity-sensitive items in measures of behavioral addiction. 2022, 107410

2

45 Basal Ganglia: Habit Formation. 2022, 395-410

44 Neural correlates of changing food choices while bypassing values.

0

43 Alterations of Dopamine Receptors and the Adaptive Changes of L-Type Calcium Channel Subtypes Regulate Cocaine-Seeking Habit in Tree Shrew. 2022, 12, 984

42 The utility of goods or actions? A neurophilosophical assessment of a recent neuroeconomic controversy. 1-22

41 Where Actions Meet Outcomes: Medial Prefrontal Cortex, Central Thalamus, and the Basal Ganglia. 16,

0

40 Stress diminishes outcome but enhances response representations during instrumental learning. 11,

0

39 Intersubjectivity as an antidote to stress: Using dyadic active inference model of intersubjectivity to predict the efficacy of parenting interventions in reducing stress through the lens of dependent origination in Buddhist Madhyamaka philosophy. 13,

0

38 Goal-directed action is transiently impaired in an hAPP-J20 mouse model of Alzheimer's disease, and in aging male mice regardless of genotype.

37 Orbitofrontal cortex populations are differentially recruited to support actions.

36 Cognitive effects of thalamostriatal degeneration are ameliorated by normalizing striatal cholinergic activity.

35 Learning and the Evolution of Conscious Agents.

1

- 34 Une défense de l'hédonisme axiologique. **2022**, 61, 325-346 ○
- 33 The role of dorsomedial striatum adenosine 2A receptors in the loss of goal-directed behaviour. ○
- 32 Learning of probabilistic punishment as a model of anxiety produces changes in action but not punisher encoding in the dmPFC and VTA. 11, ○
- 31 Amygdala-cortical collaboration in reward learning and decision making. 11, 1 ○
- 30 Restoring functional D2- to D1-neuron correspondence enables goal-directed action control in long-lived striatal circuits. ○
- 29 Orbitofrontal cortex populations are differentially recruited to support actions. **2022**, ○
- 28 Preserved motility after neonatal dopaminergic lesion relates to hyperexcitability of direct pathway medium spiny neurons. JN-RM-1992-21 ○
- 27 α^* nicotinic acetylcholine receptor subtypes mediate nicotine-induced enhancement of Pavlovian conditioned responding to an alcohol cue. 16, ○
- 26 CRF receptor type 1 modulates the nigrostriatal dopamine projection and facilitates cognitive flexibility after acute and chronic stress. ○
- 25 Translational models of addiction phenotypes to advance addiction pharmacotherapy. ○
- 24 Dorsal striatum coding for the timely execution of action sequences. 11, ○
- 23 The motivational determinants of human action, their neural bases and functional impact in adolescents with OCD. **2022**, ○
- 22 Long-term effects of THC exposure on reward learning and motivated behavior in adolescent and adult male rats. ○
- 21 Alcohol and Cannabinoid Binges and Daily Exposure to Nicotine in Adolescent/Young Adult Rats induce Sex-Dependent Long-Term Learning and Motivation Alterations. ○
- 20 Discriminating goal-directed and habitual cocaine seeking in rats using a novel outcome devaluation procedure. **2022**, 29, 447-457 ○
- 19 Dopaminergic Control of Actions and Habits. **2023**, 327-340 ○
- 18 Lack of action monitoring as a prerequisite for habitual and chunked behavior: Behavioral and neural correlates. **2022**, 105818 ○
- 17 Modality-specific and modality-general representations of reward value in frontal cortex. ○

- 16 How tufted capuchin monkeys (*Cebus apella*) rank monkey chow in relation to other foods. **2005**, 14, 215-222 1
- 15 Temporal context and latent state inference in the hippocampal splitter signal. 12, 0
- 14 Goal-directed action is transiently impaired in a hAPP-J20 mouse model of Alzheimer's disease. **ENEURO.0363-22.2023**
- 13 Prefrontal cortex neurons in adult rats exposed to early life stress fail to appropriately signal the consequences of motivated actions. **2023**, 263, 114107 0
- 12 On the Role of Theory and Modeling in Neuroscience. **2023**, 43, 1074-1088 0
- 11 Theory-driven computational models of drug addiction in humans: Fruitful or futile?. **2023**, 5, 100066 0
- 10 Alcohol and cannabinoid binges and daily exposure to nicotine in adolescent/young adult rats induce sex-dependent long-term appetitive instrumental learning impairment. 17, 0
- 9 Imp21 knockdown increases stimulus-driven instrumental behaviour but does not alter goal-directed learning or neuron density in cortico-striatal circuits in a mouse model of Tourette syndrome and autism spectrum disorder. 0
- 8 Cocaine and habit training cause dendritic spine rearrangement in the prelimbic cortex. **2023**, 26, 106240 0
- 7 Sensitivity to outcome devaluation in operant tasks is better predicted by food restriction level than reinforcement training schedule in mice. 0
- 6 A novel hypothalamic-midbrain circuit for model-based learning. 0
- 5 Natural Behaviour Is Not Enough: Farm Animal Welfare Needs Modern Answers to Tinbergen's Four Questions. **2023**, 13, 988 0
- 4 Long-term effects of THC exposure on reward learning and motivated behavior in adolescent and adult male rats. **2023**, 240, 1151-1167 0
- 3 Serotonin and Dopamine Show Different Response Profiles to Acute Stress in the Nucleus Accumbens and Medial Prefrontal Cortex of Rats with Neuropathic Pain. 0
- 2 Pathways to the persistence of drug use despite its adverse consequences. 0
- 1 Betting on Non-Invasive Brain Stimulation to Treat Gambling Disorder: A Systematic Review and Meta-Analysis. **2023**, 13, 698 0