List of Drugs in Development for Neurodegenerative Diseases

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Neurodegenerative diseases are an increasingly important issue in our society. There are, however, still many obstacles on the way to finding methods for cure. This table is intended to give an overview over neurodegenerative drugs that are currently in research and development in order to give the reader an idea about the complexity of drug discovery in this field. This table is intended as a pointer to drugs and it is recommended to obtain additional information from the internet to check for newest developments.

	Highest dev. status	Company	Drug	Indication	Mode of action	Drug effect
1	Discovery	University of South Florida	(-)-epigallocatechin-3-gallate	Neurodegenerative disease	IL synthesis modulator; Protein kinase C modulator; TACE modulator	Cell cycle inhibitor
2	Discovery	Fujimoto Seiyaku Co Ltd	(R)-(-)-BPAP	Neurodegenerative disease	Neurotransmitter modulator	Neuroprotectant
3	**Phase 1 Clinical	GlaxoSmithKline plc	644784	Pain; Schizophrenia	Cyclooxygenase 2 inhibitor	Antipsychotic; Analgesic
4	**Phase 1 Clinical	GlaxoSmithKline plc	742457	Alzheimers disease; Schizophrenia	5-HT 6 antagonist	Antipsychotic
5	**Phase 1 Clinical	GlaxoSmithKline plc	773812	Schizophrenia	5-HT antagonist; Dopamine modulator	Antipsychotic
6	**Phase 2 Clinical	Aventis Pharmaceuticals Inc	100907	Schizoaffective disorder; Anxiety disorder; Psychosis; Schizophrenia; Sleep disorder; Major depressive disorder	5-HT 2a antagonist	Antipsychotic
7	*Discontinued (Phase 2 Clinical)	Carlbiotech Ltd	106362-32-7	HIV associated dementia; Neurodegenerative disease	peptide -T	Nootropic agent

* Changes made from last issue; ** newly added drug.

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8	Discontinued	AstraZeneca plc	128298-28-2; Remacemide	Chorea Huntington, Cerebrovascular ischemia,	NMDA receptor antagonist	Neuroprotectant
9	*Launched (Phase 3 Clinical)	Cardinal Health Inc	14611-51-9; Selegiline; Zydys	Parkinsons disease; Cerebrovascular ischemia	MAO B inhibitor	DA enhancer
10	Discovery	National Institutes of Health	4-Cl-kynurenine	Neurodegenerative disease	NMDA receptor antagonist	Neuroprotectant
11	**Discovery	4SC AG	4SC, BK channel blockers	Incontinence; Asthma; Central nervous system disease	Ion channel modulator; Anti-inflammatory	Neuroprotectant
12	**Discovery	Sigma-Tau Ind Farm Riunite SpA	5-HT2/dopamine D3 antagonists, Sigma-Tau	Psychosis; Schizophrenia	Dopamine D3 antagonist; 5-HT 2 antagonist	Antipsychotic
13	**Discovery	Merck Sharp & Dohme Ltd	5-HT 2a antagonists, Merck & Co	Schizophrenia	5-HT 2a antagonist	Antipsychotic
14	**Discovery	NPS Allelix Corp	5-HT6 antagonists, Allelix	Psychiatric disorder; Schizophrenia	5-HT 6 antagonist	Antipsychotic
15	**Discovery	SmithKline Beecham Pharmaceuticals	5-HT 6 receptor antagonists, GlaxoSmithKline	Schizophrenia; Cognitive disorder; Major depressive disorder	5-HT 6 antagonist	
16	**Clinical	Novartis AG	7B12	Spinal cord injury	NOGO antibody	Inhibition of exonal growth inhibitor
17	**Phase 1 Clinical	University of Pennsylvania	99mTc-Trodat-1, GE Healthcare	Parkinsons disease; Brain disease	SPECT contrast agent; Dopamine modulator	
18	Research Tool	Abbott Laboratories	A-134974	Epilepsy; Neurodegenerative disease	Adenosine kinase inhibitor	Anticonvulsant agent
19	Discovery	Abbott Laboratories	A-366833; A-35380	Alzheimers disease; Pain; Neurodegenerative disease; Nicotine use disorder; Anxiety disorder; Schizophrenia	Nicotinic ACh agonist, Neuronal nAChR ligand	Nootropic agent; Anxiolytic; Antipsychotic; Analgesic
20	Discontinued	Abbott Laboratories	A-72055	Neurodegenerative Disease	Muscarinic ACh agonist,	Nootropic agent
21	**Phase 1 Clinical	Ferrer Internacional SA	abaperidone	Schizophrenia	Dopamine D3 antagonist; Dopamine D2 antagonist; Antipsychotic; 5-HT 2a antagonist	Antipsychotic
22	**Phase 2 Clinical	Abbott Laboratories	ABT-089	Alzheimers disease; Schizophrenia; Attention deficit hyperactivity disorder	Nicotinic ACh modulator	Antipsychotic; Cognition enhancer
23	Discontinued	American Biogenetic Sciences Inc	ABS-205	Neurodegenerative disease; Cognitive disorder	Cell adhesion molecule modulator; Neuronal growth factor	Neuroprotectant

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24	Discovery	ACADIA Pharmaceuticals Inc	AC-184897	Neurodegenerative disease; Carcinoma	Nuclear receptor agonists	Anticancer; Neuroprotectant
25	Discovery	ACADIA Pharmaceuticals Inc	AC-90222	Alzheimers Disease	Muscarinic M1 agonist	Nootropic agent
26	Discontinued	Cocensys Inc, Novartis	ACEA-1021	Epilepsy; Head trauma; Pain	NMDA,/ Glycine antagonist	Neuroprotectant, Anticonvulsant
27	**Discovery	Synaptica Ltd	AChE peptide fragment (neurodegenerative disease), Synaptica	Alzheimers disease; Motor neurone disease; Parkinsons disease	Acetylcholinesterase modulator	Antiparkinsonian; Neuroprotectant
28	**Phase 1 Clinical	ACADIA Pharmaceuticals Inc	ACP-103	Psychosis; Schizophrenia	5-HT 2c receptor modulator; 5-HT 2a receptor modulator; 5-HT 2a antagonist	Antipsychotic
29	Phase 1 Clinical	Annovis Inc	ACPC, Annovis	Cerebrovascular ischemia; Neurological disease; Major depressive disorder	NMDA receptor partial agonist Antidepressant	Neuroprotectant
30	**Discovery	Prescient NeuroPharma Inc	ACPD analogs, IGT	Epilepsy; Anxiety disorder; Cerebrovascular ischemia; Head injury	Metabotropic glutamate receptor 1 agonist; Metabotropic glutamate receptor 2 agonist	Neuroprotectant; Anxiolytic; Anticonvulsant agent
31	*Discontinued (Discovery)	National Institutes of Health	ADCI	Neurodegenerative disease	NMDA and sodium channel antagonist	Neuroprotectant; Anticonvulsant agent
32	**Discovery	ActinoDrug Pharmaceuticals GmBH	AD-GL0002	Parkinsons disease; Cancer; Cirrhosis	IL-6 synthesis inhibitor; Transcription factor inhibitor	Anticancer; Antiparkinsonian
33	Discovery	Aegera Therapeutics Inc	AEG-3482 series	Multiple sclerosis; Cerebrovascular ischemia; Cancer	Antiapoptotic	Neuroprotectant
34	**Discovery	Aeolus Pharmaceuticals Inc	AEOL-10150	Mucositis; Motor neurone disease; Cerebrovascular ischemia	Catalytic antioxidant	Neuroprotectant
35	**Discovery	Genentech Inc	agonist trkC monoclonal antibody, Genentech	Neuropathy	Protein tyrosine kinase modulator	Neuroprotectant
36	Discovery	AGY Therapeutics	AGY-110	Alzheimers disease; Schizophrenia, Major depressive disorder	Unclassified enzyme inhibitor	Nootropic agent
37	Discovery	AGY Therapeutics	AGY-207	Cerebrovascular ischemia	Unclassified enzyme inhibitor	Neuroprotectant
38	No Development Reported	Cortex/Alkermes	AK-275; Vasolex	Cerebral infarction; Ischemia	Calpain inhibitor	Neuroprotectant; Vasoprotectant
39	Phase 2 Clinical	VUFB	Alaptid	Alzheimers disease	Melanotropin-inhibiting factor (MIF)-1 analog	Nootropic agent

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40	No Development Reported	NPS Allelix Corp	ALE-0540	Nervous system injury; Pain; Neurodegenerative disease	NGF antagonist	Neuroprotectant; Analgesic
41	**Discovery	Memory Pharmaceuticals Corp	alpha-7 partial agonists, Memory	Alzheimers disease; Schizophrenia; Central nervous system disease	Nicotinic ACh modulator	Nootropic agent
42	**Discovery	University of Queensland	alpha-conotoxins, University of Queensland	Neurological disease	Nicotinic ACh antagonist	Muscle relaxant
43	**Discovery	Isis Pharmaceuticals Inc	ALS antisense therapeutics, Isis	Motor neurone disease	Superoxide dismutase inhibitor; Antisense oligonucleotide inhibitor	Neuroprotectant
44	**Phase 3 Clincial	Harvard University/ Boston Life Sciences Inc	Altropane	Parkinsons disease; Attention deficit hyperactivity disorder	Dopamine transporter ligand, ¹²³ I labelled	Diagnostic/Imaging agent
45	**Discovery	University of Georgetown	Alzheimers disease therapeutic, Georgetown/ Samaritan	Spinal cord injury; Alzheimers disease; Neurodegenerative disease; Parkinsons disease; Dementia	CNS modulator	Neuroprotectant; Antiparkinsonian
46	**Discovery	Pharmexa A/S	Alzheimers vaccine (AutoVac), Pharmexa/ Lundbeck	Alzheimers disease	Vaccine; Target not disclosed	Neuroprotectant
47	Discovery	AMRAD Corp Ltd	AM-36	Cerebrovascular ischemia; Alzheimers disease, Spinal chord injury	Sodium channel blocker	Neuroprotectant; Antioxidant agent
48	Discovery	Annovis Inc	AMPA antagonists, Annovis	Epilepsy; Neurodegenerative disease; Schizophrenia; Cerebrovascular ischemia	AMPA receptor antagonist	Neuroprotectant; Antipsychotic; Anticonvulsant agent
49	**Discovery	Eli Lilly & Co	AMPA modulators, Lilly/NPS	Cognitive disorder	AMPA receptor modulator	Cognition enhancer
50	**Discovery	NV Organon	AMPA modulators, Organon	Alzheimers disease; Schizophrenia; Cognitive disorder	AMPA receptor modulator	Antipsychotic
51	**Discovery	Eisai Co Ltd	AMPA receptor antagonists (Multiple sclerosis), Eisai	Multiple sclerosis	AMPA receptor antagonist	Neuroprotectant
52	**Discovery	Yamanouchi Pharmaceutical Co Ltd	AMPA receptor antagonists, Yamanouchi	Central nervous system disease	AMPA receptor antagonist	Neuroprotectant
53	Discovery	University of California; Cortex; NV Organon; Servier	AMPAKINES	Dementia; Schizophrenia; Alzheimers disease	AMPA receptor modulator	Neuroprotectant; Antidepressant, Antipsychotic

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54	Phase 1 Clinical	Axonyx Inc / Serono	Amyloid-inhibiting peptides	Alzheimers disease; Neurodegenerative disease	Beta amyloid generation inhibitor	Anti-amyloidogenic
55	Discontinued	Elan Pharmaceuticals Inc	AN-1792	Alzheimers disease	Synthetic beta amyloid; Vaccine	beta amyloid vaccine agonist
56	**Discovery	Fournier Pharma	anatibant	Allergic rhinitis; Asthma; Cerebrovascular ischemia; Head injury	Anti-inflammatory; Bradykinin B2 antagonist	Neuroprotectant
57	Discovery	Paracelsian Inc	Andrographolide	Neurodegenerative disease	Herbal product	Neuroprotectant; Anti-inflammatory
58	Phase 3 Clinical	Apollo Biopharmaceutics Inc / Wyeth	APBPI-124 / estrogen-like compounds	Alzheimers disease; Neurodegenerative disease; Parkinsons disease; Cerebrovascular ischemia	Estrogen modulator	Neuroprotectant; Antiparkinsonian
59	**Phase 2 Clinical	Britannia Pharmaceuticals Ltd	apomorphine (nasal; ED), Britannia	Erectile dysfunction; Parkinsons disease	Dopamine agonist	Antiparkinsonian; Apomorphine modulator
60	**Discovery	Merck Sharp & Dohme Ltd	apopain inhibitors, Merck Sharp	Neurodegenerative disease	Cysteine protease inhibitor	Apoptosis inhibitor
61	No Development Reported	ImmunoGen Inc	apoptosin	Neurodegenerative disease		Apoptosis modulator
62	No Development Reported	Oregon Health Sciences University	Aptiganel	Neurodegenerative disease; Parkinsons disease; Cerebrovascular disease; Cerebrovascular ischemia; Brain injury	NMDA receptor antagonist, Ionotropic glutamate receptor antagonist	Neuroprotectant; Antiparkinsonian
63	Discovery	Arena Pharmaceuticals Inc	AR-139525	Neurodegenerative disease; Parkinsons disease	Unspecified GPCR antagonist	Neuroprotectant; Antiparkinsonian
64	Discontinued	Fisons plc	AR-15896; lanicemine	Cerebral infarction; Ischemia	NMDA receptor antagonist	Neuroprotectant
65	Discovery	AstraZeneca plc	AR-A-008055	Neurotoxicity, drug-induced; Neurodegenerative disease	GABA A agonist	Neuroprotectant
66	*Launched (Phase 3 Clinical)	Eisai/Pfizer Inc	Aricept (Donepezil) vs. a-Tocopherol	Neurodegenerative disease; Alzheimers disease	Acetylcholinesterase inhibitor	Neuroprotectant; Cognition enhancer
67	Research Tool	AstraZeneca plc	AR-R-17779	Alzheimers disease; Neurodegenerative disease; Anxiety disorder	ACh agonist	Nootropic agent; Anxiolytic
68	No Development Reported	AstraZeneca plc	AR-R18565	Ischemia	Calcium channel blocker	Vasodilatory agent

	Highest dev. status	Company	Drug	Indication	Mode of action	Drug effect
69	No Development Reported	Array BioPharma Inc	ARRY-142886	Neurodegenerative disease	Protein kinase inhibitor; Mek protein kinase inhibitor	Neuroprotectant
70	Discovery	AlphaRx Inc	ARX-2000; -2001; -2002; AlphaRx	Inflammation; Neurodegenerative disease; Immune deficiency	Immunomodulators	Immunostimulant
71	**Phase 3 Clinical	NV Organon	asenapine	Psychosis; Schizophrenia	Dopamine D1 antagonist; Dopamine D2 antagonist; 5-HT 2a antagonist	Antipsychotic
72	Discovery	Serono SA	AS-600292; AS-004509; AS-601245	Chronic obstructive pulmonary disease; Inflammation; Inflammatory bowel disease; Multiple sclerosis; Neurodegenerative disease; Rheumatoid arthritis; Asthma; Central nervous system disease; Ischemia	Jun N terminal kinase modulator; Jun N terminal kinase-2 inhibitor; Jun N terminal kinase-3a inhibitor	Vasoprotectant; Anti-inflammatory
73	**Discovery	Avigen Inc	AV-201	Parkinsons disease	Dopamine synthesis modulator; Adeno-associated virus based gene therapy	Antiparkinsonian
74	**Phase 3 Clinical	Center for Neurologic Study	AVP-923	Neuropathic pain; Pain; Mood disorder; Cough	NMDA receptor antagonist	Antitussive; Analgesic; Neuroprotectant
75	**Discovery	Childrens Hospital of Boston	Axogenesis Factor 1, Boston Life Sciences	Spinal cord injury; Glaucoma; Motor neurone disease; Neurodegenerative disease; Cerebrovascular ischemia	NGF agonist	Neuroprotectant
76	No Development Reported	Regeneron Pharmaceuticals Inc	Axokine	Huntingtons chorea; Motor neurone disease; Neurodegenerative disease	CNTF agonist	Metabolic modulator
77	**Discovery	Acorda Therapeutics Inc	axonal guidance proteins, Acorda	Spinal cord injury; Parkinsons disease	Cell adhesion molecule modulator; Antiparkinsonian	Neuroprotectant
78	No Development Reported	Asahi Kasei Corp	AZ-36041	Alzheimers disease; Neurodegenerative disease	Reduction of amyloid beta	Neuroprotectant
79	*Discovery	AstraZeneca plc	AZD-0328	Alzheimers disease; Cognitive disorder	5-HT 3 agonist; Nicotinic ACh agonist	Nootropic agent; Anxiolytic
80	Discovery	BioAxone Therapeutique Inc	BA-1016	Neurodegenerative disease; Cerebrovascular ischemia; Cancer	Rho kinase inhibitor	Anticancer; Neuroprotectant

	Highest dev. status	Company	Drug	Indication	Mode of action	Drug effect
81	**Phase 1 Clinical	Bayer AG	BAY-38-7271	Pain; Cerebrovascular ischemia; Brain injury	Cannabinoid agonist	Neuroprotectant
82	No Development Reported	Bayer AG	BAY-X-9227	Neurodegenerative disease	Potassium channel activator	Neuroprotectant
83	No Development Reported	Russian Academy Medical Science	BD-1054	Alzheimers disease; Neurodegenerative disease		Nootropic agent
84	**Discovery	Toyama Chemical Co Ltd	benzothiophene derivatives (Alzheimers disease), Toyama	Alzheimers disease	benzothiophene derivatives	Neuroprotectant; Nootropic agent
85	**Phase 1 Clinical	Purdue Neuroscience Corp	besonprodil	Epilepsy; Pain; Parkinsons disease; Cerebrovascular ischemia	NMDA receptor antagonist	Analgesic; Antiparkinsonian; Anticonvulsant agent
86	Discontinued	Sankyo Co Ltd	BGC-20-1178	Neurodegenerative disease	Beta amyloid modulator	Nootropic agent
87	**Phase 1 Clinical	BIAL Group	BIA-3-202	Parkinsons disease	COMT inhibitor	Antiparkinsonian
88	**Phase 3 Clinical	Solvay SA	bifeprunox	Parkinsons disease; Psychosis; Schizophrenia	Dopamine D2 agonist; 5-HT 1a agonist	Antiparkinsonian
89	**Phase 2 Clinical	Boehringer Ingelheim Corp	BIII-890-CL	Pain; Cerebrovascular ischemia	Sodium channel blocker	Neuroprotectant
90	Discontinued	Boehringer Ingelheim Corp	BIMU-8	Neurodegenerative disease	5-HT4 agonist	Nootropic agent
91	Discovery	Boston Life Sciences Inc	BLS-602; BLS-605	Neurodegenerative disease; Parkinsons disease	DA transporter inhibitor	Neuroprotectant; Antiparkinsonian
92	**Phase 3 Clinical	Dainippon Pharmaceutical Co Ltd	blonanserin	Psychosis; Schizophrenia	5-HT 2 antagonist; Dopamine D2 antagonist	Antipsychotic
93	Discontinued	Bristol-Myers Squibb Co	BMS-181100	Schizophrenia, Psychosis	Sigma opioid antagonist, 5-HT 1a agonist	Antipsychotic
94	Discontinued	Bristol-Myers Squibb Co	Brasofensine	Parkinsons disease	Dopamine uptake inhibitor	Antiparkinsonian
95	No Development Reported	Pharm-Eco Laboratories Inc	Breflate	Neurodegenerative disease	Brefeldin A prodrug	Nootropic agent
96	Discovery	National Institutes of Health	BTG-A derivatives	Neurodegenerative disease	Nicotinic ACh modulator; Muscarinic ACh modulator	Nootropic agent
97	**Discovery	Knoll Ltd	BTS-72664	Epilepsy; Migraine; Cerebrovascular ischemia		Neuroprotectant; Analgesic; Anticonvulsant agent
98	**Discovery	Biovitrum AB	BVT-2989	Central nervous system disease		Neuroprotectant

	Highest dev. status	Company	Drug	Indication	Mode of action	Drug effect
99	**Discovery	OXIS International Inc	BXT-51072	Chronic obstructive pulmonary disease; Inflammatory bowel disease; Asthma; Restenosis; Ulcerative colitis; Cerebrovascular ischemia; Respiratory distress syndrome	Glutathione modulator	Neuroprotectant; Vasoprotectant
100	**Discovery	BioCryst Pharmaceuticals Inc	C1s inhibitors, 3-Dimensional Pharmaceuticals/ BioCryst	Inflammation; Myocardial infarction; Systemic lupus erythematosus; Autoimmune disease; Cerebrovascular ischemia; Respiratory distress syndrome	Anti-inflammatory; Serine protease inhibitor; Complement cascade inhibitor	Neuroprotectant; Cardioprotectant; Vasoprotectant
101	No Development Reported	Roche	C60 fullerenes	Neurodegenerative disease; Cerebrovascular ischemia; Head injury	Free radical scavenger	Neuroprotectant
102	**Discovery	Senju Pharmaceutical Co Ltd	calpain inhibitors, Senju Pharmaceutical	Nervous system injury; Muscular dystrophy; Neurodegenerative disease; Cataract; Cerebrovascular ischemia	Calpain inhibitor	Neuroprotectant
103	**Discovery	Genentech Inc	cardiotrophin-1	Glaucoma; Huntingtons chorea; Motor neurone disease; Uveitis; Cardiovascular disease	Cytokine, growth factor for myocytes	Growth factor
104	No Development Reported	Aventis	CAS-493; Aloracetam	Alzheimers disease		Nootropic agent
105	**Discovery	Sunesis Pharmaceuticals Inc	caspase inhibitors, Sunesis	Inflammation; Neurodegenerative disease; Cardiovascular disease	Caspase inhibitor; Antiapoptotic	Nootropic agent; Anti-inflammatory; Cardiovascular agent
106	**Discovery	Yamanouchi Pharmaceutical Co Ltd	caspase-3 inhibitors, Yamanouchi	Alzheimers disease; Liver disease; Myocardial infarction; Parkinsons disease; Cerebrovascular ischemia	Caspase inhibitor; Antiapoptotic	Neuroprotectant; Cardioprotectant; Antiparkinsonian
107	**Discovery	Cognitive Pharmaceuticals Ltd	CDD-0304	Alzheimers disease; Schizophrenia	Muscarinic M1 agonist	Nootropic agent
108	**Discovery	Novo Nordisk A/S	CEE-03-310	Alcoholism; Schizophrenia; Sleep disorder; Drug dependence	Dopamine D1 antagonist	Antipsychotic

	Highest dev. status	Company	Drug	Indication	Mode of action	Drug effect
109	**Discovery	Novo Nordisk A/S	CEE-03-320	Schizophrenia; Sleep disorder; Tardive dyskinesia; Drug dependence	Dopamine D1 antagonist	Antipsychotic
110	*Launched (Phase 3 Clinical)	Pfizer/Pharmacia; NIA; GD Searle & Co	Celecoxib	Alzheimers disease	Cox-2 antagonist	Neuroprotectant; Anti-inflammatory
111	**Phase 2 Clinical	Titan Pharmaceuticals Inc	cell therapy (dopamine producers; Parkinsons), Titan/Schering AG	Parkinsons disease	Dopamine agonist	Anticancer; Neuroprotectant; Antiparkinsonian
112	Phase 3 Clinical	Cephalon	CEP-1347	Parkinsons Disease	MAP kinase inhibitor	Neuroprotectant
113	Discovery	Cephalon Inc	CEP-3122	Alzheimers disease; Neurodegenerative disease; Cerebrovascular ischemia	Calpain inhibitor	Neuroprotectant
114	Discovery	Cephalon Inc	CEP-4143	Neurodegenerative disease	Calpain inhibitor	Neuroprotectant
115	Discontinued	LEO Pharma A/S	CEP-4186	Alzheimers disease; Acute myelogenous leukemia; Neurodegenerative disease; Carcinoma	Vitamin D3 agonist	Anticancer; Neuroprotectant
116	Discontinued	Cephalon Inc	CEP-751	Neurodegenerative disease; Prostate tumor	NGF antagonist; Protein tyrosine kinase inhibitor	Anticancer
117	Discontinued	Stem Cells Inc	CERE-20	Parkinsons disease	Growth factor agonist; Adeno-associated virus based gene therapy	Antiparkinsonian
118	**Discovery	University of Washington	CERE-120	Parkinsons disease; Neurological disease	Growth factor agonist; Adeno-associated virus based gene therapy; Ret tyrosine kinase receptor stimulator	Antiparkinsonian
119	**Discovery	The Salk Institute for Biological Studies	CERE-130	Motor neurone disease	Insulin-like growth factor agonist; Adeno-associated virus based gene therapy	Neuroprotectant
120	Discontinued	Novartis AG	CGP-35348	Epilepsy; Neurodegenerative disease	GABA B antagonist	Anticonvulsant agent
121	Phase 1 Clinical	Chiesi Farmaceutici SpA	CHF-2060	Neurodegenerative disease; Cognitive disorder; Senile dementia	Acetylcholinesterase inhibitor	Neuroprotectant; Cognition enhancer
122	**Phase 1 Clinical	Chiesi Farmaceutici SpA	CHF-3381	Epilepsy; Pain; Parkinsons disease; Cerebrovascular ischemia	MAO A inhibitor; MAO B inhibitor; NMDA receptor antagonist	Neuroprotectant; Analgesic; Antiparkinsonian; Anticonvulsant agent

	Highest dev. status	Company	Drug	Indication	Mode of action	Drug effect
123	**Research Tool	University of Oregon	cinnamide-based NMDA antagonists, CoCensys	Ischemia; Neurological disease; Injury; Head injury	NMDA receptor antagonist	Neuroprotectant
124	**Discovery	INSERM	ciproxifan	Epilepsy; Alzheimers disease; Dementia	Histamine H3 antagonist	Anticonvulsant agent
125	**No Development Reported	Chong Kun Dang Pharmaceutical Corp	CKD-705	Hypertension; Anxiety disorder; Parkinsons disease	Dopamine beta hydroxylase inhibitor; 5-HT release inhibitor	Antihypertensive; Anxiolytic; Antiparkinsonian
126	Discovery	Cogent Neuroscience Inc	CNIC-568	Neurodegenerative disease; Cerebrovascular ischemia	Unspecified vector based gene therapy	Neuroprotectant
127	Discontinued	CeNeS Pharmaceuticals Inc	CNS-1044	Neurodegenerative disease; Cerebrovascular ischemia	NMDA receptor antagonist	Neuroprotectant
128	No Development Reported	CeNeS Pharmaceuticals Inc	CNS-2103	Neurodegenerative disease	Calcium channel blocker	Neuroprotectant
129	No Development Reported	CeNeS Pharmaceuticals Inc	CNS-5065	Neurodegenerative disease	NMDA receptor antagonist	Neuroprotectant
130	Discontinued	Ryan Pharmaceuticals Inc	Coenzyme Q10;	Cerebrovascular ischemia	Apoptosis inhibitor	Neuroprotectant
131	**Clinical	ReGen Therapeutics plc	Colostrinin	Alzheimers disease	Amyloid protein deposition inhibitor; Proline rich peptide from colostorinin	Immunomodulator; Antioxidant agent
132	No Development Reported	Pfizer Inc	CP-132484	Neurodegenerative disease	5-HT 2 agonist	Neuroprotectant
133	No Development Reported	Pfizer Inc	CP-283097	Neurodegenerative disease	NMDA receptor antagonist	Neuroprotectant
134	**Discovery	Pfizer Inc	CP-465022	Epilepsy; Parkinsons disease; Ischemia	AMPA receptor antagonist	Antiparkinsonian; Anticonvulsant agent
135	*No Development Reported (Discovery)	Questcor Pharmaceuticals Inc	CPC-304	Neurodegenerative disease; Alzheimers disease; Cerebrovascular ischemia	Calcium channel blocker	Neuroprotectant
136	Phase 2 Clinical	Cortex Pharmaceuticals Inc	CX-516	Cognitive disorder; Alzheimers disease	Ampa receptor modulator	Neuroprotectant
137	Phase 1 Clinical	NIMH	Cyclophosphamide	Alzheimers disease; Neurodegenerative disease	Immunomodulator; Alkylating agent	Neuroprotectant; Anti-inflammatory
138	Discovery	Maas Biolab LLC	Cyclosporin A	Alzheimer disease; Parkinsons disease; ALS; Huntingtons disease	Immunomodulator; Calcineurin inhibitor	Neuroprotectant; Anti-inflammatory
139	Discontinued	Servier	Dabelotine	Alzheimers disease; Dementia	Adrenoceptor agonist; Vasopressin agonist	Nootropic agent

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140	**Discovery	DarPharma Inc	DAR-201	Parkinsons disease; Schizophrenia; Attention deficit hyperactivity disorder	Dopamine D1 agonist	Antipsychotic; Antiparkinsonian
141	Research Tool	Suntory Ltd	DCG-IV	Neurodegenerative disease	Glutamate receptor agonist at mGlu-R group II receptors; Antagonist at mGlu-R group III receptors	Neuroprotectant
142	Discovery	DiverDrugsSL	DD-20207	Alzheimers disease; Parkinsons disease	NMDA receptor modulator	Analgesic, Antiparkinsonian
143	Discovery	Memorial Sloan-Kettering Cancer Center	Dehydroascorbic acid	Alzheimers disease; Neurodegenerative disease; Parkinsons disease; Cerebrovascular ischemia	Antioxidant agent	Neuroprotectant; Anti-inflammatory
144	**Phase 1 Clinical	NPS Pharmaceuticals Inc	delucemine, NPS 1506	Cerebrovascular ischemia; Major depressive disorder	NMDA open channel blocker	Neuroprotectant; Antidepressant
145	Discontinued	Hebrew University	dexanabinol	Cognitive disorder, Brain injury	NMDA receptor antagonist; TNF- α inhibitor; Free radical scavenger	Neuroprotectant
146	Phase 1 Clinical	Pierre Fabre SA / Reckitt & Colman plc	Dexefaroxan	Alzheimers disease	Imidazoline receptor antagonist, Alpha 2 adrenoceptor antagonist	Neuroprotectant
147	**Phase 2 Clinical	Purdue Research Foundation	dihydropyridine	Parkinsons disease; Schizophrenia	Dopamine D1 agonist	Antiparkinsonian
148	Discovery	Schering AG	Dihydroquinolines	Neurodegenerative disease	NO synthesis inhibitor	Neuroprotectant
149	No Development Reported	SIR International	Diperdipine	Neurodegenerative disease; Cerebral infarction; Cerebrovascular disease; Cerebrovascular ischemia	Calcium channel blocker	Antihypertensive
150	Research Tool	Merck & Co Inc	dizocilpine	Epilepsy; Neurodegenerative disease; Cognitive disorder	NMDA channel blocker	Anticonvulsant agent
151	Discontinued	Bristol-Myers Squibb Co	DMP-543	Alzheimers disease	Potassium channel blocker	Neuroprotectant
152	**Discovery	Novasite Pharmaceuticals Inc	dopamine D1 receptor agonists (schizophrenia), Novasite	Parkinsons disease; Schizophrenia	Dopamine D1 agonist	Antiparkinsonian
153	**Discovery	SmithKline Beecham plc	dopamine D3 antagonists, GlaxoSmithKline	Psychosis; Schizophrenia; Cocaine addiction	Dopamine D3 antagonist	Antipsychotic

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154	**Discovery	Memory Pharmaceuticals Corp	dopamine D5 receptor modulators, Memory	Parkinsons disease	Dopamine D5 receptor modulator	Antiparkinsonian
155	**Discovery	Organix Inc	dopamine transporter ligand, Organix	Parkinsons disease; Schizophrenia; Cocaine addiction	Dopamine transporter inhibitor	Antipsychotic; Antiparkinsonian
156	Discovery	D-Pharm Ltd	DP-103	Nervous system inflammation		Anti-inflammatory
157	Discovery	D-Pharm Ltd	DP-109	Neurodegenerative disease	Chelating agent; Apoptosis modulator	Neuroprotectant
158	*Phase 2 Clinical (Discovery)	D-Pharm Ltd	DP-b99	Cerebrovascular ischemia, Epilepsy	Chelating agent, Calcium metabolism modulator	Neuroprotectant, Anticonvulsant agent
159	Discontinued	Mitsubishi-Tokyo Pharmaceuticals Inc	DPP-225	Alzheimers disease	5-HT antagonist	Neuroprotectant
160	**Discovery	Meiji Seika Kaisha Ltd	DR-2313	Cerebrovascular ischemia	PARP inhibitor	Neuroprotectant
161	**Phase 1 Clinical	Daiichi Seiyaku Co Ltd	DY-9760e	Cerebrovascular ischemia; Neurological disease	Calmodulin antagonist	Neuroprotectant; Protectant
162	Discovery	Korea Research Institute of Bioscience and Biotechnology	Dykellic acid	Immune disorder; Neurodegenerative disease; Cancer	MMP-5 inhibitor	Anticancer; Anti-apoptotic
163	**Phase 2 Clinical	Eisai Co Ltd	E-2007	Epilepsy; Multiple sclerosis; Parkinsons disease	AMPA receptor antagonist; Anticonvulsant agent	Neuroprotectant
164	**Phase 1 Clinical	Eisai Co Ltd	E-2051	Cerebrovascular ischemia	Calcium channel blocker	Neuroprotectant
165	Phase 1 Clinical	Eisai Co Ltd	E-2101	Neurodegenerative disease; Muscle hypertonia	5-HT 2 antagonist; 5-HT 1a antagonist	Centrally-acting muscle relaxant
166	**Discovery	Wyeth Research	E-selectin inhibitors, Wyeth	Reperfusion injury; Inflammation; Psoriasis; Rheumatoid arthritis; Cerebrovascular ischemia	E-Selectin antagonist	Neuroprotectant; Vasoprotectant; Anti-inflammatory
167	Discontinued	BTG International Ltd; Novartis	EAA-494; Midafotel	Epilepsy; Neurodegenerative disease; Cerebrovascular ischemia; Head injury	NMDA receptor antagonist	Neuroprotectant
168	Discovery	Wyeth Research	EAB-318	Epilepsy; Neurodegenerative disease; Cerebrovascular ischemia	NMDA receptor antagonist	Neuroprotectant; Anticonvulsant agent
169	**Discovery	NsGene A/S	ECT-AD	Alzheimers disease; Neurological disease	NGF agonist	Neuroprotectant; Growth factor
170	**Discovery	NsGene A/S	ECT-PD	Parkinsons disease	Neuronal growth factor receptor agonist	Neuroprotectant; Growth factor

	Highest dev. status	Company	Drug	Indication	Mode of action	Drug effect
171	Discontinued	Mitsubishi-Tokyo Pharmaceuticals Inc	edaravone	Cerebrovascular ischemia	Free radical scavenger	Neuroprotectant
172	Discovery	Universidad Complutense de Madrid	EF-7412	Neurodegenerative disease; Anxiety disorder; Depression	5HT-1A antagonist	Antidepressant; Anxiolytic
173	No Development Reported	EGIS Gyogyszergyar RT	EGIS-7444	Alzheimers disease; Neurodegenerative disease	NMDA receptor antagonist	Neuroprotectant
174	**Phase 3 Clinical	ExonHit Therapeutics SA	EHT-201, Pentoxifyllin	Motor neurone disease; Central nervous system disease	Vasodilator	Neuroprotectant
175	Phase 1 Clinical	ExonHit Therapeutics SA	EHT-202, FK-506	Neurodegenerative disease	T-cell inhibitor	Neuroprotectant
176	Discontinued	Synthelabo	Eliprodil	Motor neurone disease; Neurodegenerative disease; Cerebrovascular disease; Cerebrovascular ischemia; Head injury	NMDA receptor antagonist	Neuroprotectant
177	Discontinued	Knoll GmbH	emopamil	Migraine; Neurodegenerative disease; Cerebrovascular ischemia	5-HT 2 antagonist; 5-HT antagonist; Calcium channel blocker	Neuroprotectant; Vasodilatory agent
178	Discovery	University of Tennessee Memphis	EP-475	Neurodegenerative disease	Calpain inhibitor	Neuroprotectant
179	*Launched (Phase 2 Clinical)	ASAC Pharmaceutical International AIE	EQA-00; Anapsos, Polypodium extract	Multiple sclerosis	Immunomodulator	Immunomodulator, Nootropica agent
180	*Launched (Phase 3 Clinical)	ASAC Pharmaceutical International AIE	EQA-00; Anapsos	Alzheimers disease	Immunomodulator	Immunomodulator, Nootropica agent
181	No Development Reported	Kyowa Hakko Kogyo Co Ltd	ES-242-1	Neurodegenerative disease	NMDA receptor antagonist	Neuroprotectant
182	Phase 3 Clinical	NIA (National Institute of Aging)	Estrogen or Estrogen/ Progesterone	Alzheimer's Disease	Immunomodulator; Hormone	Neuroprotectant; Anti-inflammatory
183	**Discovery	MitoKor	estrogen analogs (ischemia), MitoKor	Myocardial infarction; Cerebrovascular ischemia	Estrogen modulator; Hormone	Neuroprotectant; Cardiovascular agent
184	No Development Reported	GD Searle & Co	ethanoanthracene derivatives	Neurodegenerative disease	Sigma opioid antagonist	Neuroprotectant
185	No Development Reported	Centre de Recherche Pierre Fabre	F-10981	Alzheimers disease; Neurodegenerative disease; Parkinsons disease	Alpha 2 adrenoceptor antagonist	Antiparkinsonian

	Highest dev. status	Company	Drug	Indication	Mode of action	Drug effect
186	Discovery	Tokyo Metropolitan Institute	F-2-CCG-I	Epilepsy; Neurodegenerative disease; Head injury	Metabotropic glutamate receptor modulator	Anticonvulsant agent
187	No Development Reported	Pharmacia & Upjohn Inc	FCE-29484A	Neurodegenerative disease; Parkinsons disease; Epilepsy		Antiparkinsonian; Anticonvulsant agent
188	No Development Reported	Pharmacia & Upjohn Inc	FCE-29642A	Neurodegenerative disease; Parkinsons disease; Epilepsy		Antiparkinsonian; Anticonvulsant agent
189	No Development Reported	Amgen Inc	FGF-9; rhuFGF-16	Multiple Sclerosis; Neurodegenerative disease	FGF-9 agonist; FGF-16 agonist	Neuroprotectant
190	No Development Reported	Amgen Inc	fibroblast growth factor, ersofermin	Multiple sclerosis; Neurodegenerative disease; Cerebrovascular ischemia	FGF-2 agonist	Neuroprotectant
191	**Phase 2 Clinical	Juvantia Pharma Ltd	fipamezole	Parkinsons disease	Alpha 2 adrenoceptor antagonist	Antiparkinsonian
192	**Discovery	Kosan Biosciences Inc	FK-520 analogs, Kosan	Neurological disease	NGF agonist	Immuno-suppressant
193	**Phase 2 Clinical	Fujisawa Pharmaceutical Co Ltd	FK-960	Alzheimers disease; Cognitive disorder	5-HT agonist	Nootropic agent
194	**Discovery	Pfizer Inc	FKBP inhibitors, Pfizer	Alzheimers disease; Neurodegenerative disease; Parkinsons disease; Peripheral neuropathy	Immunomodulator	Anti-inflammatory
195	**Phase 3 Clinical	Bristol-Myers Squibb Co	flindokalner	Cerebrovascular ischemia	Potassium channel activator	Neuroprotectant
196	**Phase 1 Clinical	Harvard University	Fluoratec	Parkinsons disease; Attention deficit hyperactivity disorder; Neurological disease	Dopamine uptake modulator	Antiparkinsonian
197	No Development Reported	Kirin Brewery Co Ltd	Formobactin	Neurodegenerative disease; Cerebrovascular ischemia	Free radical scavenger	Neuroprotectant
198	No Development Reported	Fisons plc	FPL-16283	Neurodegenerative disease	NMDA receptor antagonist	Neuroprotectant
199	**Discovery	Fujisawa Pharmaceutical Co Ltd	FR-210575	Cerebrovascular ischemia	Free radical scavenger	Neuroprotectant
200	*Discovery (No Development Reported)	Neurochem Inc	GAG mimetics	Alzheimers disease	Amyloid protein deposition inhibitor	Neuroprotectant
201	Discovery	Synaptica Ltd/ Sanochemia Pharmazeutika AG	Galantamine derivatives	Alzheimers disease	Acetylcholinesterase inhibitor	Nootropic agent; cognition enhancer

	Highest dev. status	Company	Drug	Indication	Mode of action	Drug effect
202	No Development Reported	GlaxoSmithKline plc	galdansetron	Neurodegenerative disease	5-HT 3 antagonist	Neuroprotectant
203	**Discovery	Elan Pharmaceuticals Inc	gamma-secretase inhibitors, Elan/Lilly	Alzheimers disease	Beta amyloid synthesis inhibitor; Gamma-secretase inhibitor; Aspartic protease inhibitor	Neuroprotectant
204	Phase 2 Clinical	Chiesi Farmaceutici SpA	ganstigmine	Alzheimers disease; Neurodegenerative disease; Cognitive disorder	Acetylcholinesterase inhibitor	Neuroprotectant
205	Discontinued	GlaxoSmithKline plc	gavestinel	Neurodegenerative disease; Cerebrovascular ischemia	Glycine antagonist	Neuroprotectant
206	Discovery	Genentech Inc	GDNF	Neurodegenerative disease; Parkinsons disease	Unspecific growth factor agonist	Antiparkinsonian
207	Phase 2 Clinical	Amgen Inc	GDNF; Liatermine	Motor neurone disease; Neurodegenerative disease; Parkinsons disease	Growth factor	Antiparkinsonian
208	**Discovery	Oxford BioMedica plc	gene therapy (ALS), Oxford BioMedica	Motor neurone disease	Viral vector based gene therapy	Neuroprotectant
209	**Discovery	Oxford BioMedica plc	gene therapy (Parkinsons disease), Oxford BioMedica	Parkinsons disease	Tyrosine hydroxylase modulator; Dopamine synthesis stimulant; Retrovirus based gene therapy	Antiparkinsonian; Dopamine modulator
210	Discovery	CeNeS Pharmaceuticals Inc, Acorda	GGF-2	Multiple sclerosis, Myasthenia gravis	NGF agonist, Growth factor	Neuroprotectant
211	Phase 2 Clinical	ViatriaVIATRIS GmbH	GKE-841; retigabine	Epilepsy	GABA A agonist; Potassium channel activator	Anticonvulsant agent
212	No Development Reported	Allelix Neuroscience Inc	Glialines, Throphix	Alzheimers disease; Huntingtons chorea; Parkinsons disease	Cell therapy; Glial neurotrophic factors	Neuroprotectant; Antiparkinsonian
213	**Discovery	Glaxo Wellcome SpA	glycine antagonists, GlaxoSmithKline	Epilepsy; Pain; Schizophrenia; Cerebrovascular ischemia; Head injury	Glycine antagonist; NMDA receptor antagonist; Anticonvulsant agent	Neuroprotectant; Antipsychotic; Analgesic;
214	**Discovery	Eli Lilly & Co	glycine transporter inhibitors, Lilly	Schizophrenia	Glycine transport inhibitor	Antipsychotic
215	**Discovery	Allelix Neuroscience Inc	GlyT-1 inhibitors, NPS/Janssen	Schizophrenia; Dementia	Glycine modulator	Antipsychotic

	Highest dev. status	Company	Drug	Indication	Mode of action	Drug effect
216	*Clinical (Enrollment)	NINDS (National Institute of Neurological Disorders and Stroke)	GM-1 ganglioside	Neurodegenerative disease	Unclear mechanism	Neuroprotectant
217	Phase 2 Clinical	Fidia Farmaceutici	GM-1 ganglioside	Parkinsons disease	Unclear mechanism	Neuroprotectant
218	**Discovery	Parke-Davis & Co	GMC-1111	Parkinsons disease; Schizophrenia	Dopamine D2 agonist	Antiparkinsonian
219	No Development Reported	SICOR Inc	GP-14683	Epilepsy; Angina; Neurodegenerative disease	ARA-100 prodrug	Vasodilatory agent; Anticonvulsant agent
220	Discontinued	Guilford Pharmaceuticals Inc	GPI-1337	Neurodegenerative disease; Parkinsons disease	Neuroimmunophilin ligand	Neuroprotectant; Antiparkinsonian; Anti-inflammatory
221	*Phase 2 clinical (Discontinued)	Guilford Pharmaceuticals Inc, Symphony Neuro Development Co	GPI-1485	Parkinsons disease	Neuroimmunophilin	Antiparkinsonian; Anti-inflammatory
222	Research Tool	GlaxoSmithKline plc	GR-73632	Neurodegenerative disease	NK1 agonist	Neuroprotectant
223	Discontinued	GlaxoSmithKline plc	GR-89696	Neurodegenerative disease	Kappa opioid agonist	Neuroprotectant
224	Discovery	AstraZeneca plc	GSK-3 inhibitors	Alzheimers disease	Glycogen synthase kinase family inhibitor	Neuroprotectant
225	Discontinued	Gliatech Inc	GT-2342	Neurodegenerative disease	Histamine H3-ligand	Neuroprotectant
226	Discovery	GBtherapeutics Ltd	GT-715	Neurodegenerative disease	NO modulator	Neuroprotectant
227	Discovery	BTG International Ltd	GV-2400	Neurodegenerative disease; Cardiovascular disease; Cancer	HSV gene therapy	Neuroprotectant
228	Discontinued	EGIS Gyogyszergyar RT	GYKI-52466	Alzheimers disease; Parkinsons disease; Epilepsy	AMPA receptor antagonist	Anticonvulsant agent, Antiparkinsonian
229	No Development Reported	American Cyanamid Co	HBNF	Hematological disease; Neurodegenerative disease	Heparin binding neurotrophic factor; FGF-8 agonist, Peptide	
230	Discovery	Hunter-Fleming Ltd	HF-0220	Cerebrovascular ischemia	7-hydroxysteroid pathway modulator	Neuroprotectant
231	**Discovery	Curis Inc	Hh agonists, Curis	Diabetic neuropathy; Infertility; Alopecia; Parkinsons disease; Bone disease; Neurological disease	Hedgehog agonist	Neuroprotectant; Antiparkinsonian
232	*Phase 2 Clinical (Phase 1 Clinical)	Aventis	HP-184	Spinal chord injury	Ion channel modulator, Acetylcholine release stimulator	Neuroprotectant

	Highest dev. status	Company	Drug	Indication	Mode of action	Drug effect
233	**Discovery	Tapestry Pharmaceuticals Inc	Huntingtons disease therapy, Tapestry	Huntingtons chorea	Gene therapy	Neuroprotectant
234	Discovery	Aegera Therapeutics Inc	IAP	Parkinsons disease, Multiple sclerosis, Cerebrovascular ischemia	Anti-apoptotic gene therapy	Neuroprotectant
235	**Phase 1 Clinical	ICAGEN Inc	ICA-69673	Epilepsy; Pain; Anxiety disorder; Parkinsons disease; Arthritis	Ion channel modulator	Anxiolytic; Analgesic; Antiparkinsonian; Anticonvulsant agent
236	Discovery	Idun Pharmaceuticals Inc	IDN-6556	Neurodegenerative disease	Caspase inhibitor	Apoptosis inhibitor; Anti-inflammatory
237	**Research Tool	Synthelabo	ifenprodil	Schizophrenia; Cerebral infarction; Cerebrovascular ischemia	Noncompetitive NMDA antagonist	Neuroprotectant; Antipsychotic
238	Discovery	Neurocrine Biosciences Inc	IGF modulators, Neurocrine	Neurodegenerative disease; Central nervous system disease; Cerebrovascular ischemia	Insulin-like growth factor 1 agonist	Neuroprotectant; Antipsychotic
239	Discontinued	Pfizer Inc	Igmesine	Alzheimers disease	Sigma opioid agonist	Neuroprotectant
240	**Discovery	Prescient NeuroPharma Inc	IGT-440103	Cerebrovascular ischemia; Head injury	Metabotropic glutamate receptor agonist	Neuroprotectant
241	**Discovery	Hoechst Marion Roussel Inc	iloperidone	Psychosis; Schizophrenia	Dopamine D2 antagonist; 5-HT 2a antagonist	Antipsychotic
242	No Development Reported	Ortho Pharmaceutical Corp	Imidazole derivatives	Pain; Neurodegenerative disease	Alpha 3 adrenoceptor agonist	Analgesic
243	Discovery	Servier	Imidazolyl nitrones	Nervous system injury; Neurodegenerative disease	Free radical scavenger	Neuroprotectant; Antioxidant agent
244	**Discovery	Cytos Biotechnology AG	Immunodrug vaccines (Alzheimers disease), Cytos/Novartis	Alzheimers disease	Vaccine against BA4 fragments	Neuroprotectant
245	**Phase 2 Clinical	Inotek Pharmaceuticals Corp	INO-1001	Nervous system injury; Reperfusion injury; Colitis; Sepsis; Multiple sclerosis; Myocardial infarction; Arthritis; Uveitis; Cerebrovascular ischemia; Diabetes mellitus; Diabetic complication	PARP inhibitor	Neuroprotectant

	Highest dev. status	Company	Drug	Indication	Mode of action	Drug effect
246	Discovery	Boston Life Sciences Inc	inosine, BLSI	Neurodegenerative disease	Adenosine precursor	Neuroprotectant
247	Phase 1 - 2 Clinical	NCRR	Interferon Alpha	Alzheimers disease; Dementia	Immunomodulator	Neuroprotectant; Anti-inflammatory
248	No Development Reported	Yeda Research & Development Co Ltd	Interleukin-2-like growth factor	Neurodegenerative disease	IL-2 agonist	Growth factor agonist
249	*Pre-registration (Phase 3 Clinical)	Research Triangle Institute	Iometopane	Parkinsons disease	Dopamine uptake inhibitor; SPECT contrast agent	Neuroprotectant; Antiparkinsonian
250	Phase 2 Clinical	Nippon Chemiphar Co Ltd	Ipenoxazone	Alzheimers disease; Neurodegenerative disease; Middle ear disease	NMDA receptor antagonist; Ionotropic glutamate receptor antagonist	Smooth muscle relaxant
251	Discovery	Chronogen Inc	isp-1; clk-1	Neurodegenerative disease	Protein tyrosine kinase STY	Neuroprotectant
252	**Phase 2 Clinical	Kyowa Hakko Kogyo Co Ltd	istradefylline	Parkinsons disease; Major depressive disorder	Adenosine A2a antagonist	Antidepressant; Antiparkinsonian
253	**Discovery	Bristol-Myers Squibb Pharma Co	IT-657	Schizophrenia	Dopamine D2 antagonist; 5-HT 2a antagonist	Antipsychotic
254	No Development Reported	Aventis	itameline	Dementia, Alzheimers disease, Cognitive disorder	Muscarinic ACh agonist	Nootropic agent
255	**Discovery	Serono SA	JNK inhibitors, Serono	Chronic obstructive pulmonary disease; Inflammation; Inflammatory bowel disease; Multiple sclerosis; Neurodegenerative disease; Rheumatoid arthritis; Asthma; Central nervous system disease; Ischemia; Pulmonary fibrosis	Jun N terminal kinase modulator; Jun N terminal kinase-2 inhibitor; Jun N terminal kinase-3a inhibitor	Vasoprotectant; Anti-inflammatory
256	No Development Reported	Kyowa Hakko Kogyo Co Ltd	KF-17329	Neurodegenerative disease; Cerebrovascular ischemia		Neuroprotectant
257	*Dis-continued	Krenitsky Pharmaceuticals Inc	KP-102	Neurodegenerative disease	NGF agonist	Neurotrophic agent
258	**Discovery	Kyorin Pharmaceutical Co Ltd	KRP-199	Cerebrovascular ischemia	AMPA receptor antagonist	Neuroprotectant
259	Discovery	Keryx Biopharmaceuticals Inc	KRX-411	Neurodegenerative disease	Protein kinase modulator	Neuroprotectant

	Highest dev. status	Company	Drug	Indication	Mode of action	Drug effect
260	Phase 2 Clinical	Kyowa Hakko	KW-6002; Istradefylline	Parkinsons disease; Major depressive disorder	Adenosine A2a antagonist	Neuroprotectant
261	No Development Reported	Merck & Co Inc	L-687306	Alzheimers disease	Muscarinic M1 agonist	Nootropic agent
262	Research Tool	Merck & Co Inc	L-687414	Epilepsy; Neurodegenerative disease	NMDA receptor antagonist	Anticonvulsant agent
263	Research Tool	Merck & Co Inc	L-689560	Neurodegenerative disease	NMDA receptor antagonist	Anticonvulsant agent
264	No Development Reported	Merck & Co Inc	L-701252	Alzheimers disease; Epilepsy; Cerebrovascular ischemia	NMDA receptor antagonist	Neuroprotectant; Anti-convulsant agent
265	**Phase 1 Clinical	Hebrew University of Jerusalem	ladostigil	Alzheimers disease	Acetylcholinesterase inhibitor; MAO B inhibitor	Neuroprotectant; Nootropic agent
266	**Phase 1 Clinical	GlaxoSmithKline plc	Lamictal XR	Epilepsy; Neuropathic pain	Sodium channel blocker; Glutamate release inhibitor	Neuroprotectant; Antidepressant; Antipsychotic; Anticonvulsant agent
267	*Launched (Phase 3 Clinical)	GlaxoSmithKline plc	lamotrigine	Neuropathy	Glutamate release inhibitor	Neuroprotectant; Anticonvulsant agent
268	Discovery	Louisiana University	LAU-0501	Alzheimers disease; Parkinsons disease	Cyclooxygenase 2 inhibitor	Anti-inflammatroy; Antiparkinsonian
269	**Discovery	Louisiana State University	LAU-8080	Cerebrovascular ischemia	PAF antagonist; Platelet aggregation inhibitor	Neuroprotectant
270	**Phase 3 Clinical	Scotia Holdings plc	LAX-101	Huntingtons chorea; Schizophrenia; Bipolar disorder; Major depressive disorder	Phospholipase inhibitor	Antidepressant; Antipsychotic
271	Discontinued	Roche	lazabemide	Alzheimers disease; Neurodegenerative disease; Parkinsons disease; Dementia	MAO B inhibitor	Antiparkinsonian
272	**Discovery	Oxford BioMedica plc	LentiVector	Unidentified; HIV infection; Motor neurone disease; Parkinsons disease; Asthma; Cystic fibrosis; Diabetes mellitus	EGF-, VEGF-agonist; Apoptosis antagonist	
273	Phase 2 Clinical	Spectrum Pharmaceuticals	Leteprinim	Parkinsons disease; Spinal chord injury	FGF agonist; NGF agonist	Nootropic agent; Antiparkinsonian
274	**Discovery	Renovis Inc	leukocyte trafficking (neuro-degenerative disease), Renovis	Neurodegenerative disease	leukocyte trafficking inhibitors	Neuroprotectant; Anti-inflammatory

	Highest dev. status	Company	Drug	Indication	Mode of action	Drug effect
275	Discovery	Fidia-Georgetown Institute for Neurosciences	LIGA-20	Neurodegenerative disease; Cerebrovascular ischemia	Excitatory amino acid antagonist	Neuroprotectant
276	**Discovery	OXIS International Inc	lipid soluble antioxidants, Oxis	Alzheimers disease; Parkinsons disease; Central nervous system disease	Antioxidant	Antiparkinsonian
277	**Discovery	University of Chicago	LXR agonists (Alzheimers disease), Anagen Therapeutics	Alzheimers disease	Liver X receptor agonist	Neuroprotectant
278	No Development Reported	Eli Lilly & Co	LY-178002	Inflammation; Neurodegenerative disease	Antioxidant	Anti-inflammatory; Immuno-suppressant
279	No Development Reported	Eli Lilly & Co	LY-233536	Neurodegenerative disease	Competitive NMDA antagonist	Antiparkinsonian; Anticonvulsant agent
280	No Development Reported	Eli Lilly & Co	LY-235959	Neurodegenerative disease	Competitive NMDA antagonist	Antiparkinsonian; Anticonvulsant agent
281	Discontinued	Eli Lilly & Co	LY-274614	Epilepsy; Alzheimers disease; Neurodegenerative disease; Opiate use disorder; Parkinsons disease; Dementia	NMDA receptor antagonist	Antiparkinsonian; Anticonvulsant agent
282	**Phase 2 Clinical	Eli Lilly & Co	LY-293558	Epilepsy; Pain; Migraine; Cerebral infarction; Cerebrovascular ischemia	AMPA receptor antagonist; Anticonvulsant agent	Neuroprotectant; Analgesic
283	*Research Tool (No Development Reported)	Eli Lilly & Co	LY-302427	Neurodegenerative disease	Metabotropic glutamate receptor modulator	Neuroprotectant
284	No Development Reported	Eli Lilly & Co	LY-354006	Alzheimers disease; Neurodegenerative disease	Muscarinic ACh modulator	Nootropic agent
285	Phase 2 Clinical	Eli Lilly & Co	LY-354740	Anxiety disorder	Metabotropic glutamate receptor 2 agonist	Anxiolytic; Anticonvulsant agent
286	Phase 1 Clinical	Eli Lilly & Co	LY-451395	Alzheimers disease; Neurodegenerative disease	AMPA receptor agonist	Neuroprotectant
287	**Discovery	Eli Lilly & Co	LY-483518	Alzheimers disease; Anxiety disorder; Psychosis; Schizophrenia; Cognitive disorder	5-HT 6 antagonist	Nootropic agent; Anxiolytic; Antipsychotic

	Highest dev. status	Company	Drug	Indication	Mode of action	Drug effect
288	**Discovery	MetaPhore Pharmaceuticals Inc	M-40401	Reperfusion injury; HIV infection; Parkinsons disease; Shock; Encephalitis	Viral replication inhibitor; Apoptosis inhibitor; Superoxide dismutase stimulator; HIV replication inhibitor	
289	Discovery	Mitsubishi-Tokyo Pharmaceuticals Inc	MCC-257	Diabetic neuropathy; Neurodegenerative disease	NGF agonist	Neuroprotectant
290	Discontinued	Mitsubishi-Tokyo Pharmaceuticals Inc	MCI-225	Alzheimers disease; Neurodegenerative disease; Depression	5-HT 3 antagonist; Norepinephrine uptake inhibitor	Antidepressant; Metabolic activator
291	No Development Reported	Hoechst Marion Roussel Inc	MDL-100748	Epilepsy; Neurodegenerative disease	NMDA/Glycine antagonist; Glycine antagonist	Anticonvulsant agent
292	Discontinued	Hoechst Marion Roussel Inc	MDL-101002	Neurodegenerative disease; Cerebrovascular ischemia; Septic shock	Free radical scavenger	Neuroprotectant; Antioxidant agent
293	No Development Reported	Hoechst Marion Roussel Inc	MDL-102288	Neurodegenerative disease	Glycine antagonist	Neuroprotectant
294	No Development Reported	Hoechst Marion Roussel Inc	MDL-105519	Neurodegenerative disease	Glycine antagonist; NMDA receptor antagonist	Neuroprotectant
295	No Development Reported	Hoechst Marion Roussel Inc	MDL-27266	Epilepsy; Neurodegenerative disease	Glycine antagonist; NMDA receptor antagonist	Ionotropic glutamate receptor antagonist; Anticonvulsant agent
296	Discontinued	Hoechst Marion Roussel Inc	MDL-28170	Alzheimers disease; Neurodegenerative disease	Cysteine protease inhibitor; Hydrolase inhibitor; Amyloid protein deposition inhibitor; Calpain inhibitor	Antiparasitic, Neuroprotectant
297	No Development Reported	Hoechst Marion Roussel Inc	MDL-29951	Epilepsy; Neurodegenerative disease	NMDA/Glycine antagonist	Anticonvulsant agent
298	Discontinued	Cephalon Inc; Chiron	mecasermin	Diabetic neuropathy; Motor neurone disease; Neurodegenerative disease	Insulin-like growth factor 1 agonist	Neuroprotectant
299	Phase 1 Clinical	Bayer AG / Memory Pharmaceuticals Corp	MEM-1003	Dementia, Alzheimers Disease, Cognitive disorder	Calcium channel modulator	Neuroprotectant
300	*Launched (Phase 3 Clinical)	Merz/Forrest	Memantine	Neurodegenerative disease	NMDA receptor antagonist	Nueroprotectant; Analgesic

	Highest dev. status	Company	Drug	Indication	Mode of action	Drug effect
301	Discontinued	Pharmed Dr Liedtke GmbH	Mepindolol	Neurodegenerative disease	Beta adrenoceptor antagonist	Antihypertensive
302	**Discovery	Prescient NeuroPharma Inc	mesencephalic astrocyte-derived neurotrophic factor, Prescient	Parkinsons disease	Neuronal growth factor receptor agonist	Neuroprotectant; Antiparkinsonian
303	**Discovery	Eli Lilly & Co	metabotropic glutamate receptor agonists, Lilly	Pain; Neurodegenerative disease; Anxiety disorder	Metabotropic glutamate receptor 2 agonist; Metabotropic glutamate receptor 3 agonist	Anxiolytic; Analgesic
304	**Discovery	Taisho Pharmaceutical Co Ltd	metabotropic glutamate receptor ligands, Taisho/Merck	Psychosis; Schizophrenia; Major depressive disorder	Metabotropic glutamate receptor agonist; Metabotropic glutamate receptor antagonist	Antipsychotic
305	Discovery	Pharmacyclics Inc	Metallo-texaphyrins	Neurodegenerative disease; Motor neurone disease; ALS	Chelating agent	Neuroprotectant
306	Discovery	Sibia Neuroscience; Novartis AG	methylphenyle thynylpyridine (MPEP)	Epilepsy; Pain; Neurodegenerative disease; Anxiety disorder; Cerebrovascular ischemia; Head injury	Metabotropic glutamate receptor 5 antagonist; NMDA receptor antagonist; AMPA receptor antagonist	Neuroprotectant; Analgesic; Anticonvulsant agent
307	**Discovery	Prescient NeuroPharma Inc	mGluR agonists, Prescient	Neurodegenerative disease; Anxiety disorder; Ischemia	Metabotropic glutamate receptor agonist	Neuroprotectant; Anxiolytic
308	**Discovery	F Hoffmann-La Roche Ltd	mGluR1 modulator, Roche	Alzheimers disease; Central nervous system disease; Dementia	Metabotropic glutamate receptor 1 modulator	
309	Discovery	Mera Pharmaceuticals Inc	microalgal compound, Astaxanthin	Age related macular degeneration; Hyper-cholesterolemia; Neurodegenerative disease; Cancer	Antioxidant	Anticancer; Antihyper-cholesterolemic agent
310	Discontinued	GD Searle & Co	milacemide	Epilepsy; Alzheimers disease; Neurodegenerative disease; Dementia; Depression	MAO B inhibitor; NMDA receptor agonist; Oxidoreductase inhibitor	Antidepressant; Anticonvulsant agent
311	*Launched (Phase 3 Clinical)	Pharmacia/Boehringer	Mirapex (pramipexole);	Alzheimers disease	prevention of autooxidation of dopamine	Neuroprotectant
312	**Phase 1 Clinical	MitoKor	MITO-4509	Alzheimers disease; Retinitis pigmentosa; Parkinsons disease; Cognitive disorder; Ataxia	Estrogen agonist	Antiparkinsonian
313	**Discovery	MitoKor	MITO-4565	Glaucoma	Apoptosis inhibitor	Neuroprotectant

	Highest dev. status	Company	Drug	Indication	Mode of action	Drug effect
314	**Phase 2 Clinical	Mitsubishi-Tokyo Pharmaceuticals Inc	MKC-231	Alzheimers disease; Amnesia; Cerebrovascular ischemia	Choline uptake enhancer	Neuroprotectant; Nootropic agent
315	**Discovery	Cephalon Inc	MLK inhibitors, Cephalon	Neurodegenerative disease	Protein kinase inhibitor	Neuroprotectant
316	Discontinued	PAION GmbH	MLN-519	Nervous System Inflammation	Proteasome inhibitor	Neuroprotectant; Anti-inflammatory
317	**Phase 2 Clinical	Mochida Pharmaceutical Co Ltd	MND-21, icosapentanoic acid	Alzheimers disease	Platelet aggression antagonist	Neuroprotectant; Antithrombotic
318	No Development Reported	Mitsui Pharmaceuticals Inc	MS-153	Cerebrovascular ischemia	Glutamate receptor modulator	Neuroprotectant
319	No Development Reported	Taisho Pharmaceutical Co Ltd	MT-5	Neurodegenerative disease	Neuronal growth factor receptor agonist	Neuroprotectant
320	No Development Reported	Nisshin Flour Milling Co Ltd	N-3393	Neurodegenerative disease; Cerebrovascular ischemia	No-agonist	Vasodilatory agent
321	**Discovery	Sumitomo Pharmaceuticals Co Ltd	Na ⁺ /H ⁺ exchange inhibitors, Sumitomo	Reperfusion injury; Angina; Cerebrovascular ischemia	H ⁺ K ⁺ ATPase inhibitor; Na ⁺ H ⁺ ion exchange inhibitor	Neuroprotectant; Cardioprotectant; Vasoprotectant; Vasodilatory agent
322	Discovery	Toray Industries Inc	Naltrindole derivatives	Neurodegenerative disease	Delta opioid antagonist	Neuroprotectant
323	Discovery	National Institutes of Health	NAPVSIPO	Neurodegenerative disease	Antioxidant agent	Neuroprotectant
324	*Clinical (Discovery)	Neurocrine Biosciences Inc	NBI-30702	Cerebrovascular ischemia	ACTH releasing factor antagonist	Neuroprotectant
325	Phase 2 Clinical	Neurochem Inc	NC-531	Alzheimers disease	Amyloid protein deposition inhibitor	Neuroprotectant
326	**Phase 2 Clinical	Taisho Pharmaceutical Co Ltd	NE-100	Psychosis; Schizophrenia	Sigma opioid antagonist	Antipsychotic
327	Phase 2 - 3 Clinical	Neotherapeutics	Neotrofin	Neurodegenerative disease	Immunomodulator	Neuroregeneration
328	Phase 2 Clinical	Merz & Co GmbH	Neramexane	Central nervous system disease		Neuroprotectant; Analgesic; Antiparkinsonian
329	Phase 1 Clinical	Tuszynski Lab, UCSD	Nerve growth factor gene therapy	18-month trial to determine whether therapy prevents cell loss in AD. Involves surgical implant.	Nerve growth factor gene therapy	Neuroprotectant
330	Discovery	NsGene A/S	Neublastin	Neurodegenerative disease	Neuronal growth factor	Neuroprotectant

	Highest dev. status	Company	Drug	Indication	Mode of action	Drug effect
331	**Discovery	NeuroSpheres Ltd	neural stem cells, NeuroSpheres	Alzheimers disease; Huntingtons chorea; Motor neurone disease; Multiple sclerosis; Neurodegenerative disease; Parkinsons disease; Schizophrenia; Central nervous system disease; Cerebrovascular ischemia	Tissue regeneration from stem cells	Antipsychotic; Antiparkinsonian
332	**Discovery	Harvard University/ Acorda	neuregulin-2, Acorda	Heart disease; Neurological disease	Erb2 tyrosine kinase receptor modulator; Erb3 tyrosine kinase receptor modulator; Erb4 tyrosine kinase receptor modulator; Unspecified growth factor agonist	Neuroprotectant; Cardioprotectant
333	Discontinued	Apollo Biopharmaceutics Inc	Neurocalc	Alzheimers disease; Neurodegenerative disease	Calcium metabolism modulator	Neuroprotectant
334	**Discovery	Johns Hopkins University	neuroimmuno-philin ligands, Guilford	Diabetic neuropathy; Alzheimers disease; Multiple sclerosis; Neurodegenerative disease; Parkinsons disease; Cerebrovascular disease; Cerebrovascular ischemia; Neuropathy	Immunophilin modulator	Chemoprotectant; Neuroprotectant; Antiparkinsonian
335	**Discovery	Acorda Therapeutics Inc	neuronal stem cell therapy, Acorda	Spinal cord injury; Parkinsons disease	Genetically engineered autologous cell therapy; regeneration from stem cells	Antiparkinsonian
336	**Discovery	Vertex Pharmaceuticals Inc	neurophilins (neurological disease), Vertex/ Schering	Alzheimers disease; Multiple sclerosis; Parkinsons disease; Arthritis; Psoriasis; Autoimmune disease; Neurological disease; Diabetes mellitus	General pump inhibitors; P-glycoprotein inhibitor	Antiparkinsonian; Immuno-suppressant
337	**Discovery	Renovis Inc	neuroprotectants (nitro-ne-based), Renovis	Cerebrovascular ischemia; Neurological disease; Injury	Antioxidants	Neuroprotectant
338	**Discovery	Panacea Pharmaceuticals Inc	neuroprotective antioxidants (Alzheimers disease), Panacea	Alzheimers disease; Ischemia	Antioxidants	Neuroprotectant; Antioxidant agent

	Highest dev. status	Company	Drug	Indication	Mode of action	Drug effect
339	No Development Reported	Neurocal International Inc	Neurostrol	Alzheimers disease; Neurodegenerative disease	Antioxidants	Neuroprotectant
340	**Discovery	BioVex Ltd	NeuroVEX	Spinal cord injury; Pain; Neurodegenerative disease; Parkinsons disease	Dopamine synthesis stimulant; Herpes virus based gene therapy; Dopamine modulator	Antiparkinsonian
341	**Discovery	Institut Henri Beaufour	nitric oxide synthase inhibitors, Institut Henri Beaufour	Neurodegenerative disease; Cerebrovascular ischemia	NO synthesis inhibitor	Neuroprotectant; Free radical scavenger
342	Discontinued	AstraZeneca plc	NLA-715; Clomethiazole; Zendra	Epilepsy; Cerebrovascular ischemia, Parkinsons disease, Epilepsy, Alzheimers disease	GABA A agonist	Neuroprotectant, Anticonvulsant agent
343	**Discovery	Hoffmann-La Roche AG	NMDA antagonists, Roche	Neurodegenerative disease; Central nervous system disease; Cerebrovascular ischemia	NMDA receptor antagonist	Neuroprotectant
344	**Discovery	Hokkaido University	NMDA antagonists, Hokkaido University/Asahi Kasei	Neurodegenerative disease	NMDA receptor antagonist	Neuroprotectant
345	**Discovery	Sumitomo Pharmaceuticals Co Ltd	NMDA antagonists, Sumitomo	Epilepsy; Neurodegenerative disease; Cerebrovascular ischemia	NMDA/Glycine antagonist; NMDA receptor antagonist	Neuroprotectant; Anticonvulsant agent
346	**Phase 1 Clinical	Pfizer Inc	NMDA/glycine antagonists, Pfizer	Cerebrovascular ischemia	NMDA/Glycine antagonist	Neuroprotectant
347	**Discovery	Merz & Co GmbH	NMDA glycine site antagonists, Merz	Epilepsy; Pain; Neurodegenerative disease; Cerebrovascular ischemia	NMDA/Glycine antagonist	Neuroprotectant; Analgesic; Anticonvulsant agent
348	**Discovery	Merck Sharp & Dohme Research Laboratories	NMDA receptor antagonists (NR2B subtype-selective), Merck & Co	Epilepsy; Neuropathic pain; Parkinsons disease; Cerebrovascular ischemia	NMDA receptor antagonist	Neuroprotectant; Analgesic; Antiparkinsonian; Anticonvulsant agent
349	No Development Reported	Novo Nordisk A/S	NNC-07-0775	Cerebrovascular ischemia,; Epilepsy	Metabotropic glutamate receptor 1 antagonist, Ionotropic glutamate receptor antagonist	Neuroprotectant
350	Discontinued	Novo Nordisk A/S	NNC-07-9202	Epilepsy; Neurodegenerative disease; Psychosis; Cerebrovascular ischemia	Neuroprotectant; NMDA receptor antagonist; Ampa receptor antagonist	Neuroprotectant; Antipsychotic; Anticonvulsant agent

	Highest dev. status	Company	Drug	Indication	Mode of action	Drug effect
351	No Development Reported	Regeneron Pharmaceuticals Inc	Noggin	Neurodegenerative disease	Growth factor agonist	Neuroprotectant
352	**Discovery	Biogen Inc	Nogo receptor modulators, Biogen Idec	Spinal cord injury; Multiple sclerosis; Cerebrovascular ischemia; Brain injury	Neuronal growth factor receptor modulator	Neuroprotectant
353	**Discovery	Organix Inc	nonamines, Organix	Parkinsons disease; Central nervous system disease; Cocaine addiction	Monoamine uptake inhibitor	Antiparkinsonian
354	No Development Reported	Hedral Therapeutics Inc	Norleu	Neurodegenerative disease; Cerebrovascular ischemia	angiokine	Vasodilatory agent
355	Phase 1 Clinical	Medinox Inc	NOX-700	Neurodegenerative disease	NO modulator	Antioxidant agent
356	Discovery	NPS Pharmaceuticals Inc	NPS-1407	Epilepsy; Pain; Neurodegenerative disease; Cerebrovascular ischemia; Depression	NMDA receptor antagonist	Antidepressant; Analgesic; Anticonvulsant agent
357	Discontinued	NPS Pharmaceuticals Inc	NPS-846	Epilepsy; Pain; Neurodegenerative disease; Cerebrovascular ischemia	Ionotropic glutamate receptor antagonist	Neuroprotectant; Anticonvulsant agent
358	Discovery	Centaur Pharmaceuticals Inc	NRT-115	Multiple sclerosis, Inflammation	Cytokine release modulator	Anti-inflammatory
359	Discontinued	NeuroSearch AS	NS-1209	Neurodegenerative disease; Cerebrovascular ischemia	AMPA receptor antagonist	Neuroprotectant
360	Research Tool	NeuroSearch AS	NS-1608	Cerebrovascular ischemia	Potassium channel activator	Neuroprotectant
361	Phase 2 Clinical	NeuroSearch	NS-2330	Neurodegenerative disease; Parkinsons disease	Dopamine reuptake inhibitor	Neuroprotectant
362	Discontinued	NeuroSearch AS	NS-257	Neurodegenerative disease; Cerebrovascular ischemia	AMPA receptor antagonist	Neuroprotectant
363	Discontinued	NeuroSearch AS	NS-377	Alzheimers disease; Neurodegenerative disease; Cognitive disorder	AMPA receptor antagonist	Neuroprotectant
364	Discontinued	NeuroSearch AS	NS-638	Neurodegenerative disease; Cerebrovascular ischemia	Calcium channel blocker	Neuroprotectant; Vasodilatory agent

	Highest dev. status	Company	Drug	Indication	Mode of action	Drug effect
365	Discontinued	NeuroSearch AS	NS-649	Alzheimers disease; Neurodegenerative disease; Cognitive disorder	Calcium channel blocker	Neuroprotectant
366	**Discovery	Genentech Inc/ Ceregene	NT-4/5, Genentech	Age related macular degeneration; Glaucoma; Huntingtons chorea; Motor neurone disease; Parkinsons disease; Uveitis; Diabetic retinopathy; Neurological disease; Hearing disorder	Neurotrophin-4/5 agonist	Neuroprotectant; Antiparkinsonian
367	**Discovery	Newron Pharmaceuticals SpA	NW-1048	Epilepsy; Parkinsons disease	MAO B inhibitor	Antiparkinsonian
368	Discovery	Nymox Pharmaceutical Corp	NXD-5150	Neurodegenerative disease	Unidentified	Neuroprotectant
369	**Discovery	Nymox Pharmaceutical Corp	NXD-9062	Alzheimers disease	Spheron conversion inhibitor	Neuroprotectant
370	Phase 3 Clinical	Centaur Pharmaceuticals Inc, Astra Zeneca plc	NXY-059	Alzheimers disease; Multiple sclerosis; Neurodegenerative disease; Arthritis; Cerebrovascular ischemia	Free radical scavenger; NO synthesis inhibitor	Neuroprotectant
371	**Phase 2 Clinical	Janssen Pharmaceutica NV	ocaperidone	Schizophrenia	Dopamine D2 antagonist; 5-HT 2a antagonist	Antipsychotic
372	Discontinued	Novo Nordisk A/S	odapipam	Neurodegenerative disease; Psychosis; Schizophrenia	Dopamine D1 antagonist	Antipsychotic
373	*Launched (Phase 2 Clinical)	Lilly	Olanzapine	Alzheimers disease	5-HT2 receptor antagonist; Dopamine D2 receptor antagonist	Antipsychotic
374	*Phase 2 Clinical (Phase 1 Clinical)	Ono Pharmaceutical Co Ltd	ONO-2506	Cerebrovascular Ischemia, Parkinsons Disease		Neuroprotectant; Antiparkinsonian
375	No Development Reported	Otsuka Pharmaceuticals Co Ltd	OPC-14117	Dementia, Cerebrovascular ischemia, Dementia, Huntingtons chorea	Free radical scavenger	Neuroprotectant; Antiparkinsonian
376	**Phase 2 Clinical	Cortex Pharmaceuticals Inc	Org-24448	Schizophrenia; Major depressive disorder	AMPA receptor modulator	Antidepressant; Antipsychotic
377	**Phase 2 Clinical	Sanofi-Synthelabo	osanetant	Phlebothrombosis; Pain; Schizophrenia; Deep vein thrombosis; Major depressive disorder	NK agonist; NK3 antagonist	Anxiolytic; Antipsychotic; Antidepressant
378	**Discovery	Serono SA	osteopontin, Serono	Multiple sclerosis	NOS inhibitor; Cytokine	Neuroprotectant

	Highest dev. status	Company	Drug	Indication	Mode of action	Drug effect
379	**Discovery	National Institutes of Health	p53 inhibitors (neuro-degenerative disease), NIH	Neurodegenerative disease; Toxicity	Apoptosis inhibitor	Neuroprotectant
380	Phase 2 Clinical	Phytopharm plc	P-58	Dementia; Alzheimers disease; Parkinsons disease	Muscarinic M1 modulator	Neuroprotectant; Nootropic agent
381	No Development Reported	Aventis	P-9939	Neurodegenerative disease	Glycine partial agonist	
382	Phase 1 Clinical	Tulane University	PACAP	Neurodegenerative disease; Cerebrovascular ischemia	Pituitary adenylate cyclase activating polypeptide (PACAP); Adenylate cyclase stimulator	Neuroprotectant
383	**Phase 3 Clinical	Johnson & Johnson	paliperidone	Schizophrenia	5-HT antagonist	Antipsychotic
384	Phase 3 Clinical	Lifegroup SpA	palmidrol	Neurodegenerative disease; Inflammation	5-HT release inhibitor	Neuroprotectant; Anti-inflammatory
385	Discovery	Panacea Pharmaceuticals Inc	PAN-811	Alzheimers disease	Antioxidant agent	Neuroprotectant
386	No Development Reported	Regeneron Pharmaceuticals Inc	Pan-Neurotrophin-1	Alzheimers disease; Neurodegenerative disease; Psychosis	Unspecified growth factor agonist	Neuroprotectant; Antipsychotic
387	**Discovery	CellFactors plc	Parkinsons disease cell therapy, Cell Factors	Parkinsons disease	Cell therapy	Antiparkinsonian
388	**Discovery	Boston Life Sciences Inc	Parkinsons disease therapeutics, Boston Life Sciences	Parkinsons disease; Attention deficit hyperactivity disorder	Dopamine uptake inhibitor	Antiparkinsonian
389	**Discovery	Panacea Pharmaceuticals Inc	Parkinsons therapeutic peptides, Panacea	Parkinsons disease	Antiparkinsonian	
390	**Discovery	Johns Hopkins University	PARP inhibitors, Guilford	Diabetic neuropathy; Spinal cord injury; Alzheimers disease; Myocardial infarction; Neurodegenerative disease; Parkinsons disease; Cerebrovascular ischemia; Cancer; Head injury; Septic shock	PARP inhibitor	Radiosensitizer; Neuroprotectant; Antiparkinsonian
391	**Discovery	Cephalon Inc	PARP-1 inhibitor, Cephalon	Cerebrovascular ischemia; Cancer	PARP inhibitor	Anticancer; Neuroprotectant
392	**Discovery	Fujisawa Pharmaceutical Co Ltd	PARP-1 inhibitors, Fujisawa	Parkinsons disease	PARP inhibitor	

	Highest dev. status	Company	Drug	Indication	Mode of action	Drug effect
393	**Discovery	Sumitomo Pharmaceuticals Co Ltd	PARP-1 inhibitors (stroke), Sumitomo	Cerebrovascular ischemia	PARP inhibitor	Neuroprotectant
394	**Discovery	University of Florence	PARP-1 inhibitors, University of Florence/ GlaxoSmithKline	Cerebrovascular ischemia	PARP inhibitor	Neuroprotectant
395	Phase 2 Clinical	Prana Biotechnology	PBT-1; Clioquinol	Alzheimers disease	Chelating agent; Beta amyloid modulator	Neuroprotectant
396	No Development Reported	Parke-Davis & Co	PD-132026	Neurodegenerative disease	Dopamine agonist	Neuroprotectant; Antipsychotic
397	**Discovery	Parke-Davis & Co	PD-148903	Parkinsons disease	Dopamine D1 agonist; Dopamine D2 agonist	Antiparkinsonian
398	No Development Reported	Pfizer Inc	PD-150606	Neurodegenerative disease; Neuropathy	Calpain inhibitor	Neuroprotectant
399	Discovery	Pfizer Inc	PD-159265	Neurodegenerative disease	AMPA receptor antagonist	Neuroprotectant
400	No Development Reported	Parke-Davis & Co	PD-90780	Nervous system tumor; Neurodegenerative disease	NGF antagonist	Neuroprotectant
401	No Development Reported	Pharmaceutical Discovery Corp	PDC-008.004	Alzheimers disease; Neurodegenerative disease	Muscarinic M2 agonist	Nootropic agent
402	**Discovery	Memory Pharmaceuticals Corp	PDE-4 inhibitors, Memory	Alzheimers disease; Parkinsons disease; Schizophrenia; Cognitive disorder; Major depressive disorder	PDE 4 inhibitor	Nootropic agent; Antidepressant; Antipsychotic; Antiparkinsonian
403	Discovery	INSERM	PE21	Neurodegenerative disease; Parkinsons disease	Dopamine uptake inhibitor	Antiparkinsonian
404	**Phase 2 Clinical	Wyeth Research	perzinfotel	Pain; Cerebrovascular ischemia; Neuropathy	NMDA receptor antagonist	Neuroprotectant; Analgesic
405	**Discovery	Alexion Pharmaceuticals Inc	pexelizumab	Myocardial infarction; Angina; Cardiovascular inflammation; Cerebrovascular ischemia	Complement cascade inhibitor	Cardioprotectant; Vasoprotectant
406	*Phase 3 Clinical (Discovery)	Axonyx Inc/NIH	Phenserine;	Alzheimers disease	Acetylcholinesterase inhibitor	Anti-amyloidogenic
407	Discovery	University of Nottingham	Philanthotoxins	Neurodegenerative disease; Cognitive disorder	Nicotinic ACh antagonist; AMPA receptor antagonist	Nootropic agent

	Highest dev. status	Company	Drug	Indication	Mode of action	Drug effect
408	*No Development Reported (Discovery)	Pierre Fabre SA	Piperidine derivatives	Alzheimers disease; Neurodegenerative disease; Parkinsons disease	Alpha 1 adrenoceptor antagonist; Alpha 2 adrenoceptor antagonist	Antiparkinsonian
409	Discovery	Universita di Siena	PK-11195 analogs	Neurodegenerative disease; Anxiety disorder	Dopamine D2 antagonist; 5-HT 1a antagonist; Glutamate release inhibitor	Anxiolytic; Imaging agent; BDZ agonist
410	Discovery	Proneuron Biotechnologies Inc	PN-277	Neurodegenerative disease		Neuroprotectant; Immunomodulator
411	**Discovery	Wellstat Therapeutics Corp	PN-401	Leukopenia, drug induced; Stomach tumor; Gastrointestinal tumor; Neurodegenerative disease; Pancreas tumor; Colorectal tumor	Uracil metabolism modulator	Anticancer; Neuroprotectant
412	Discontinued	Pharmacia & Upjohn Inc	PNU-87663	Neurodegenerative disease	Coagulation inhibitor; Antithrombin III	Antioxidant agent
413	**Research Tool	Pharmacia & Upjohn Inc	PNU-99194A	Schizophrenia	Dopamine D3 antagonist	Antipsychotic
414	No Development Reported	Pharmacia & Upjohn Inc	PNU-101033E	Neurodegenerative disease; Ischemia		Neuroprotectant; Antioxidant agent
415	No Development Reported	Pharmacia & Upjohn Inc	PNU-157678	Neurodegenerative disease	Unclassified enzyme inhibitor	Neuroprotectant
416	**Phase 2 Clinical	Pharmacia Corp	PNU-170413	Psychosis; Schizophrenia	Dopamine D3 antagonist	Antipsychotic
417	**Phase 1 Clinical	Pharmacia Corp	PNU-177864	Schizophrenia	Dopamine D3 antagonist	Antipsychotic
418	*Clinical (Discovery)	Polifarma SpA	POL-255	Diabetic neuropathy; Neurodegenerative disease; Schizophrenia	Dopamine agonist	Antipsychotic
419	**Discovery	University of Kuopio	POP inhibitor (Alzheimers), Finncover/ University of Kuopio	Alzheimers disease	Prolylendopeptidase inhibitor	Neuroprotectant
420	Discontinued	Gedeon Richter Ltd	posatirelin	Neurodegenerative disease	TRH agonist	Neuroprotectant
421	**Discovery	Bristol-Myers Squibb Co	potassium channel modulators, BMS	Cerebrovascular ischemia	Potassium channel modulator	Neuroprotectant
422	No Development Reported	Praecis Pharmaceuticals Inc	PPI-368	Alzheimers disease; Neurodegenerative disease	Amyloid protein deposition inhibitor	Neuroprotectant
423	Discovery	Prescient NeuroPharma Inc	PRE-103	Neurodegenerative disease; Anxiety disorder; Ischemia	Metabotropic glutamate receptor agonist	Neuroprotectant; Anxiolytic

	Highest dev. status	Company	Drug	Indication	Mode of action	Drug effect
424	Discontinued	Takeda Chemical Industries Ltd	Protirelin	Alzheimers disease; Neurodegenerative disease; Dementia	TRH agonist	Nootropic agent
425	Discovery	Pharmos Corp	PRS-211220	Multiple sclerosis; Neurodegenerative disease; Parkinsons disease; Cerebrovascular ischemia; Nervous system inflammation; Brain injury	Cyclooxygenase 2 inhibitor; Chemokine antagonist; NMDA receptor antagonist; Cannabinoid agonist; Cytokine modulator	Neuroprotectant; Analgesic; Antiparkinsonian; Non-steroidal anti-inflammatory
426	**Discovery	ProteoTech Inc	PTI-777	Amyloidosis; Alzheimers disease; Parkinsons disease; Non-insulin dependent diabetes	Amyloid protein deposition inhibitor	Neuroprotectant
427	**Phase 1 Clinical	Phytopharm plc	PYM-50018	Motor neurone disease; Neuromuscular disease; Cardiac failure	β -adrenoceptor antagonist	Neuroprotectant; Cardioprotectant
428	Phase 2 Clinical	Phytopharm plc	PYM-50028	Alzheimers disease; Neurodegenerative disease; Parkinsons disease	Dopamine modulator	Neuroprotectant; Nootropic agent
429	**Discovery	Ferrer Internacional SA	pyrimidin-5-one	Schizophrenia		Antipsychotic
430	Discovery	Quark Biotech Inc	QG-2283	Neurodegenerative disease	Hypoxia protection	Neuroprotectant
431	**Phase 2 Clinical	Quigley Pharma Inc	QR-333	Diabetic neuropathy	Carbohydrate metabolism modulator	Neuroprotectant
432	**Phase 1 Clinical	Roche Holding AG	R-1485	Alzheimers disease	Unspecified GPCR modulator	Neuroprotectant
433	**Discovery	Roche Holding AG	R-1577	Alzheimers disease	Unclassified enzyme inhibitor	Neuroprotectant
434	**Discovery	Roche Holding AG		Alzheimers disease	Unspecified GPCR modulator	Neuroprotectant
435	*Pre-registration (Phase 3 Clinical)	Teva Pharmaceutical Industries Ltd	Rasagiline	Alzheimers disease; Neurodegenerative disease; Parkinsons disease	Apoptosis inhibitor; MAO B inhibitor	Antiparkinsonian
436	Discontinued	Centaur Pharmaceuticals Inc	REN-1654	Alzheimers disease, Multiple sclerosis	Anti-inflammatory	Neuroprotectant, Antiparkinsonian
437	Discovery	ReNeuron (UK) Ltd	ReN-1820	Alzheimers disease; Inflammation; Pain; Neurodegenerative disease; Dementia	NGF antagonist	Nootropic agent; Analgesic; Anti-inflammatory
438	**Phase 2 Clinical	Bayer AG	repinotan	Cerebrovascular ischemia; Brain injury; Major depressive disorder	5-HT 1a agonist	Neuroprotectant; Antidepressant

	Highest dev. status	Company	Drug	Indication	Mode of action	Drug effect
439	**Phase 2 Clinical	ASTA Medica AG	retigabine	Epilepsy	GABA A agonist; Potassium channel activator; Vasodilatory agent; Anticonvulsant agent	
440	**Phase 3 Clinical	RepliGen Corp	RG-1068	Anxiety disorder; Pancreatitis; Schizophrenia; Autism; Obsessive-compulsive disorder	Secretin agonist	
441	Discovery	Rinat Neuroscience Corp	RI-820	Motor neurone disease; Spinal muscular atrophy	Protein based therapeutic	Neuroprotectant
442	*Launched (Phase 3 Clinical)	Aventis	Rilutek (Riluzole) + Dopamine Agonist;	Parkinsons disease	Protein kinase C inhibitor, Sodium channel blocker, glutamate release inhibitor	Neuroprotectant
443	**Launched	Alkermes Inc	risperidone (controlled release; Medisorb), Alkermes/Janssen	Schizophrenia	5-HT 2 antagonist; Dopamine D2 antagonist; Antipsychotic	
444	**Phase 3 Clinical	Aderis Pharmaceuticals Inc	rotigotine	Restless legs syndrome; Parkinsons disease	Dopamine D2 agonist	
445	No Development Reported	R J Reynolds Tobacco Co	RJR-1401	Alzheimers disease; Neurodegenerative disease	Nicotinic ACh agonist	Nootropic agent
446	**Discovery	R J Reynolds Tobacco Co	RJR-2429	Alzheimers disease; Parkinsons disease; Dementia	Nicotinic ACh agonist	Nootropic agent; Antiparkinsonian
447	No Development Reported	Roche	Ro-09-2210	Neurodegenerative disease; Autoimmune disease	MAP kinase inhibitor	Immunomodulator
448	Discontinued	Schering AG	Rolipram	HIV infection; Multiple sclerosis; Neurodegenerative disease; Asthma; Tardive dyskinesia; Depression	PDE 4 inhibitor; TNF antagonist	Nootropic agent; Antidepressant
449	**Phase 3 Clinical	SmithKline Beecham plc	ropinirole (controlled release; GEOMATRIX), GlaxoSmithKline	Parkinsons disease	Dopamine D2 agonist; Dopamine D3 agonist	Antiparkinsonian
450	No Development Reported	Rhone-Poulenc Rorer Inc	RPR-104632	Neurodegenerative disease	NMDA receptor antagonist	Neuroprotectant
451	Discovery	Roche	RS-100642	Neurodegenerative disease; Cerebrovascular ischemia	Sodium channel blocker	Neuroprotectant

	Highest dev. status	Company	Drug	Indication	Mode of action	Drug effect
452	Discontinued	Shionogi & Co Ltd	S-312-d	Neurodegenerative disease; Cerebrovascular ischemia	Calcium channel blocker	Antihypertensive; Class IV antiarrhythmic agent
453	**Phase 1 Clinical	Shionogi & Co Ltd	S-1746	Cerebrovascular ischemia; Head injury	NMDA receptor modulator; AMPA receptor antagonist	Neuroprotectant
454	**Discovery	Servier	S-14297	Psychosis; Schizophrenia	Dopamine D3 antagonist; 5-HT 2a antagonist	Antipsychotic
455	No Development Reported	Servier	S-14820	Neurodegenerative disease; Central nervous system disease	TRH agonist	Neuroprotectant
456	Discovery	Servier	S-176251; S-34730-1; S-34730	Neurodegenerative disease; Cerebrovascular ischemia; Seizure, epilepsy & convulsion	AMPA receptor antagonist	Neuroprotectant; Anticonvulsant agent
457	*Phase 1 Clinical (Discovery)	Servier	S-18986	Neurodegenerative disease; Cognitive disorder; Cerebrovascular ischemia	Glutamate receptor antagonist; AMPA receptor modulator	Neuroprotectant
458	Discovery	Servier	S-33113-1	Neurodegenerative disease; Cerebrovascular ischemia	Antioxidant agent	Neuroprotectant
459	**Discovery	Servier	S-33138	Psychosis; Schizophrenia	Dopamine D3 antagonist	Antipsychotic
460	Discontinued	Janssen Pharmaceutica	sabeluzole	Alzheimers disease; Dementia	Hypoxia protection	Neuroprotectant
461	Phase 2 Clinical	Newron Pharmaceuticals SpA	Safinamide	Parkinsons disease; Epilepsy	Calcium channel blocker; Dopamine uptake inhibitor	Neuroprotectant; Antiparkinsonian
462	**Phase 2 Clinical	Merck KGaA	sarizotan	Parkinsons disease; Psychosis; Schizophrenia; Tardive dyskinesia	Dopamine antagonist; Dopamine D2 antagonist; 5-HT 1a agonist	Antipsychotic; Antiparkinsonian
463	**Research Tool	SmithKline Beecham plc	SB-203580	Alzheimers disease; Inflammation; Rheumatoid arthritis; Asthma; Ischemia; Cerebrovascular ischemia; Vascular disease	Cytokine release inhibitor; p38 MAP kinase inhibitor; Anti-inflammatory	Neuroprotectant; Vasoprotectant
464	Discontinued	GlaxoSmithKline plc	SB-271046	Alzheimers disease; Schizophrenia	5-HT antagonist	Antipsychotic
465	Discovery	GlaxoSmithKline plc	SB-277011	Schizophrenia	Dopamine D3 antagonist	Antipsychotic

	Highest dev. status	Company	Drug	Indication	Mode of action	Drug effect
466	**Phase 1 Clinical	Wyeth	SCA-136	Schizophrenia	5-HT modulator	Psychomodulator
467	**Research Tool	Schering-Plough Corp	Sch-58261	Neurodegenerative disease; Parkinsons disease; Neurological disease	Adenosine A2a antagonist	
468	**Discovery	Taisho Pharmaceutical Co Ltd	SEA-0400	Cerebrovascular ischemia	Na+ Ca2+ ion exchange inhibitor	Neuroprotectant
469	Phase 2 Clinical	Russian Academy of Sciences	SEMAX	Alzheimers disease; Neurodegenerative disease; Cerebrovascular ischemia	ACTH agonist	Neuroprotectant; Vasoprotectant
470	**Discovery	Guilford Pharmaceuticals Inc	serine racemase inhibitors, Guilford	Neurodegenerative disease	Unclassified enzyme inhibitor; Glutamate release inhibitor	Neuroprotectant
471	Discovery	SIBIA Neurosciences Inc	SIB-1553A	Neurological disease; Parkinsons disease	Nicotinic ACh modulator	Antiparkinsonian
472	Phase 2 Clinical	SIBIA Neurosciences Inc	SIB-1553A	Alzheimers disease	Nicotinic ACh modulator	Antiparkinsonian
473	No Development Reported	SIBIA Neurosciences Inc	SIB-1765F	Alzheimers disease	Nicotinic ACh agonist	Nootropic agent; Antiparkinsonian
474	Discovery	Schering-Plough Corp	Siclofen	Neurodegenerative disease	GABA B agonist	Neuroprotectant
475	**Discovery	Eli Lilly & Co	SGS-518	Schizophrenia; Cognitive disorder	5-HT 6 antagonist;	Nootropic agent
476	Discovery	Senju Pharmaceutical Co Ltd	SJA-6017	Muscular dystrophy; Neurodegenerative disease; Cataract; Cerebrovascular ischemia	Cysteine protease inhibitor; Calpain inhibitor	Neuroprotectant
477	**Research Tool	SmithKline Beecham plc	SKF-38393	Parkinsons disease; Non-insulin dependent diabetes	Dopamine D1 agonist; Insulin receptor modulator	Antiparkinsonian; Hypoglycemic agent; Antihypercholesterolemic agent
478	No Development Reported	GlaxoSmithKline plc	SKF-74652	Alzheimers disease; Neurodegenerative disease	Beta amyloid generation inhibitor; Amyloid protein deposition inhibitor	Anti-amyloidogenic
479	**Discovery	SmithKline Beecham plc	SKF-82958	Parkinsons disease	Dopamine D1 agonist	Antiparkinsonian
480	No Development Reported	Synthelabo	SL-34.0026	Neurodegenerative disease; Parkinsons disease	MAO B inhibitor	Antiparkinsonian
481	**Phase 2 Clinical	Sanofi-Synthelabo	SL-65.0155	Alzheimers disease	5-HT 4 antagonist; 5-HT 4 agonist	Neuroprotectant; Nootropic agent
482	Discontinued	Solvay SA	SLV-308	Parkinsons disease	Dopamine D2 agonist; Adrenoceptor agonist; 5-HT 1a agonist	Neuroprotectant; Antiparkinsonian

	Highest dev. status	Company	Drug	Indication	Mode of action	Drug effect
483	**Phase 1 Clinical	Solvay SA	SLV-314	Psychosis; Schizophrenia	5-HT 1a receptor modulator; Dopamine D2 antagonist; 5-HT uptake inhibitor	Antipsychotic
484	**Phase 1 Clinical	Solvay SA	SLV-319	Obesity; Psychosis; Schizophrenia; Metabolic disorder	Dopamine D2 antagonist; Cannabinoid CB1 antagonist; 5-HT 1a agonist	Antipsychotic
485	**Phase 2 Clinical	Sumitomo Pharmaceuticals Co Ltd	SM-13496	Schizophrenia	5-HT 2 antagonist; Dopamine D2 antagonist	Antipsychotic
486	No Development Reported	Elan Pharmaceuticals Inc	SNX-482	Neurodegenerative disease	Calcium channel blocker	Nootropic agent
487	Discovery	Supratek Pharma Inc	SP-(V5.2)C	Neurodegenerative disease	VEGF antagonist	Anticancer; Antiarrhythmic agent
488	Discovery	Celgene Corp	SPC-9766	Neurodegenerative disease; Parkinsons disease; Ischemia; Cerebrovascular ischemia	Jun N terminal kinase inhibitor	Neuroprotectant; Antiparkinsonian
489	Discovery	Sanochemia Pharmazeutika AG	SPH-1371	Alzheimers disease; Dementia	Cholinesterase inhibitor	Neuroprotectant
490	**Discovery	Biofrontera Pharmaceuticals GmbH	sphingomyelinase inhibitors, Biofrontera	Neurodegenerative disease	Sphingomyelinase inhibitor	
491	**Discovery	Sagami Chemical Research Center	sphingomyelinase inhibitors, Taisho/Sagami	Neurodegenerative disease; Cerebrovascular ischemia	Sphingomyelinase inhibitor	Neuroprotectant; Nootropic agent
492	Discovery	Alviva Biopharmaceuticals Inc / Schwarz	SPM-914	Alzheimers disease; Huntingtons chorea; Motor neurone disease; Neurodegenerative disease; Parkinsons disease	Apoptosis inhibitor	
493	Discovery	Albert-Ludwigs-Universität Freiburg	SPM-935	Neurodegenerative disease		Neuroprotectant
494	**Phase 2 Clinical	Sanofi-Synthelabo	SR-57667	Alzheimers disease; Parkinsons disease	Growth factor stimulator; anti-apoptotic	Neuroprotectant; Nootropic agent; Antiparkinsonian
495	Phase 2 Clinical	Wyeth	SRA-333	Alzheimers disease	5-HT 1a antagonist	Nootropic agent
496	**Discovery	Purdue Neuroscience Corp	SSNRAs, Purdue Neuroscience/Pfizer	Ocular disease; Parkinsons disease; Psychosis; Central nervous system disease; Cerebrovascular ischemia; Head injury	NMDA/Glycine antagonist; NMDA receptor antagonist	Neuroprotectant; Antipsychotic; Antiparkinsonian

	Highest dev. status	Company	Drug	Indication	Mode of action	Drug effect
497	**Phase 1 Clinical	Sanofi-Synthelabo	SSR-125047	Schizophrenia	Sigma opioid modulator	Antipsychotic
498	**Phase 1 Clinical	Sanofi-Synthelabo	SSR-146977	Anxiety disorder; Schizophrenia; Major depressive disorder	NK3 antagonist	Antidepressant; Anxiolytic; Antipsychotic;
499	Phase 1 Clinical	Sanofi-Synthelabo	SSR-180575	Nervous system injury; Neurodegenerative disease	Benzodiazepine agonist	Neuroprotectant; Nootropic agent
500	**Phase 1 Clinical	Sanofi-Synthelabo	SSR-181507	Schizophrenia	Dopamine D2 antagonist; 5-HT 1a agonist	Antipsychotic
501	Discovery	Sanofi-Synthelabo	SSR-482073	Neurodegenerative disease	Benzodiazepine agonist	Neuroprotectant; Nootropic agent
502	**Discovery	Sanofi-Synthelabo	SSR-504734	Schizophrenia	Glycine modulator	Antipsychotic
503	**Discovery	BresaGen Ltd	stem cell therapy, BresaGen	Spinal cord injury; Parkinsons disease; Thalassemia; Cerebrovascular ischemia	Antiparkinsonian	Neuroprotectant
504	Phase 3 Clinical	Pfizer Inc	Sumanitrole	Parkinsons disease	Dopamine D2 agonist	Neuroprotectant, Antiparkinsonian
505	No Development Reported	Suntory Ltd	SUN-C5174	Neurodegenerative disease	5-HT 2 antagonist	Vasodilatory agent
506	**Phase 1 Clinical	Daiichi Suntory Biomedical Research Co Ltd	SUN-N8075	Cerebral infarction	Na+ Ca2+ ion exchange inhibitor; Vasodilatory agent; Sodium channel blocker; Antioxidant agent; Calcium channel blocker	Neuroprotectant
507	No Development Reported	Allelix Neuroscience Inc	survivins	Neurodegenerative disease	Modification of signal transduction of neurotrophic pathways	Neuroprotectant
508	**Discovery	PoliChem SA	sustained release dihydro-ergocryptine, Polichem/ SIRENADE	Alzheimers disease; Migraine; Parkinsons disease	Dopamine agonist	Neuroprotectant
509	Discovery	Annovis Inc	SYM-2207	Alzheimers disease; Neurodegenerative disease; Cerebro-vascular ischemia	AMPA receptor antagonist	Neuroprotectant
510	Phase 2 Clinical	Toyama Chemical Co Ltd	T-588	Alzheimers disease	Protein kinase stimulator; Acetylcholine release stimulator	Neuroprotectant
511	Discontinued	American Biogenetic Sciences Inc	tacrine analogs, ABS-301, ABS-302, ABS-304	Alzheimers disease; Neurodegenerative disease	Acetylcholinesterase inhibitor	Neuroprotectant

	Highest dev. status	Company	Drug	Indication	Mode of action	Drug effect
512	No Development Reported	Eli Lilly & Co/IVAX Corp	talampanel	Cerebrovascular ischemia; Motor neuron disease	AMPA receptor agonist	Neuroprotectant
513	Phase 2 Clinical	IVAX Corp	talampanel	Epilepsy; Parkinsons disease	AMPA receptor agonist	Neuroprotectant
514	**Phase 2 Clinical	SmithKline Beecham plc	talnetant	Chronic obstructive pulmonary disease; Irritable bowel syndrome; Pain; Schizophrenia; Asthma; Micturition disorder; Cough	NK3 antagonist	Antitussive; Antipsychotic; Analgesic
515	*Launched (Phase 3 Clinical)	Tanabe Seiyaku Co Ltd	Taltirelin	Alzheimers disease; Dementia	TRH agonist; Dopamine modulator	TRH agonist
516	Discontinued	Takeda Chemical Industries Ltd	TAN-950A	Neurodegenerative disease	Ionotropic glutamate receptor agonist; NMDA receptor agonist	Neuroprotectant
517	**Phase 2 Clinical	Targacept Inc	TC-1734	Alzheimers disease; Parkinsons disease	Nicotinic ACh modulator	Antiparkinsonian
518	Discovery	Targacept Inc	TC-2559	Neurodegenerative disease	Nicotinic ACh agonist	Nootropic agent
519	Phase 2 Clinical	Novartis AG	TCH-346	Parkinsons disease; Motor neuron disease	Metabotropic glutamate receptor 2 agonist	Neuroprotectant; Nootropic agent; Antiparkinsonian
520	Discontinued	Takeda Chemical Industries Ltd	TGP-580	Neurodegenerative disease; Peptic ulcer; Wound healing	FGF-2 agonist	Neuroprotectant
521	Discovery	Thuris Corp	Thurinx	Alzheimers disease	Amyloid protein deposition inhibitor	Neuroprotectant
522	Discovery	Lonza Group	TK-14	Neurodegenerative disease		Neuroprotectant
523	**Discovery	Digital Gene Technologies Inc	TOGA technology, DGT	Alzheimers disease; Inflammatory bowel disease; Neoplasm; Parkinsons disease; Atherosclerosis; Gastrointestinal inflammation		Anti-arteriosclerotic; Antiparkinsonian
524	Discontinued	AVANT Immunotherapeutics Inc	TP-20	Multiple sclerosis; Neurodegenerative disease	Complement Factor inhibitor; Selectin antagonist	Cardioprotectant; Immuno-suppressant
525	Discovery	Pfizer Inc	traxoprodil	Neurodegenerative disease; Parkinsons disease	NMDA receptor antagonist	Neuroprotectant; Analgesic; Antiparkinsonian
526	Phase 2 Clinical	Pfizer Inc	traxoprodil	Cerebrovascular ischemia	NMDA receptor antagonist	Neuroprotectant; Analgesic; Antiparkinsonian

	Highest dev. status	Company	Drug	Indication	Mode of action	Drug effect
527	**Discovery	Pharmos Corp	tricyclic dextro-cannabinoids, Pharmos	Neuropathic pain; Inflammation; Inflammatory bowel disease; Multiple sclerosis; Neurodegenerative disease; Parkinsons disease; Rheumatoid arthritis; Autoimmune disease; Cerebrovascular ischemia; Nervous system inflammation; Brain injury	Cyclooxygenase 2 inhibitor; Immunomodulator; Chemokine antagonist; NMDA receptor antagonist; Non-steroidal anti-inflammatory; Cannabinoid agonist; Cytokine modulator	Neuroprotectant; Analgesic; Antiparkinsonian
528	**Phase 1 Clinical	Taisho Pharmaceutical Co Ltd	TS-011	Cerebral infarction	Arachidonic acid metabolism inhibitor	Neuroprotectant; Anti-inflammatory
529	No Development Reported	Pharmacia & Upjohn Inc	U-74500A	Neurodegenerative disease	Aminosteroid	Neuroprotectant
530	Discontinued	Pharmacia & Upjohn Co	U-78517F	Alzheimers disease; Inflammation; Neurodegenerative disease; Cerebro-vascular ischemia	Lipid peroxidation inhibitor	Vasoprotectant; Anti-inflammatory; Antioxidant agent
531	**Discovery	Universidad Complutense de Madrid	UCM-3100	Psychiatric disorder; Neurological disease	5-HT 7 receptor modulator	
532	**Research Tool	Astra AB	UH-232	Schizophrenia	Dopamine D3 antagonist; Antipsychotic	
533	Discovery	Pfizer Inc	UK-351666; UK-356464; UK-356297	Alzheimers disease; Neurodegenerative disease; Parkinsons disease; Peripheral neuropathy	FKBP inhibitors	Antiparkinsonian; Immuno-suppressant
534	**Phase 1 Clinical	Vernalis Group plc	V-2006	Parkinsons disease	Adenosine A2a antagonist	Antiparkinsonian
535	**Discovery	Novavax Inc	vaccine (stroke), Novavax	Cerebrovascular ischemia	Vaccine; CD62E agonist	Neuroprotectant
536	**Research Tool	Royal Gist-Brocades NV	vanoxerine	Schizophrenia; Cocaine addiction	Dopamine uptake inhibitor	Antipsychotic
537	Research Tool	US National Institute on Drug Abuse	Vanoxerine	Schizophrenia	Dopamine uptake inhibitor	Antipsychotic
538	**Discovery	Vasogen Inc	VP-025	Alzheimers disease; Inflammation; Motor neurone disease; Parkinsons disease	Cytokine modulator	Nootropic agent; Anti-inflammatory

	Highest dev. status	Company	Drug	Indication	Mode of action	Drug effect
539	Discovery	Serono; Vertex Pharmaceuticals Inc	VX-799	Neurodegenerative disease; Cardiovascular disease; Cerebral infarction; Cerebrovascular ischemia	Caspase inhibitor	Apoptosis inhibitor; Neuroprotectant; Vasoprotectant; Anti-inflammatory
540	Discovery	Neurocrine Biosciences Inc; Wyeth	WAY-855	Neurodegenerative disease; Psychosis; Schizophrenia; Cerebrovascular ischemia	EAAT modulator; glutamate receptor modulator	Neuroprotectant; Antipsychotic
541	Discovery	Sterling Winthrop Products Inc	WIB-63480-2	Alzheimers disease; Huntingtons chorea; Epilepsy; Cerebrovascular ischemia	NMDA receptor antagonist	Neuroprotectant
542	No Development Reported	Sterling Winthrop Products Inc	WIN-67500	Neurodegenerative disease	Calpain inhibitor	Neuroprotectant
543	No Development Reported	Sterling Winthrop Products Inc	WIN-68100	Neurodegenerative disease	Calpain inhibitor	Neuroprotectant
544	No Development Reported	Sterling Winthrop Products Inc	WIN-69211	Neurodegenerative disease	Calpain inhibitor	Neuroprotectant
545	Phase 3 Clinical	Sanofi-Synthelabo	Xaliprodene	Alzheimers disease	NGF agonist; 5-HT 1a agonist	Neuroprotectant; Nootropic agent
546	**Phase 1 Clinical	Mitsubishi Pharma Corp	Y-931	Schizophrenia	Benzodiazepine agonist	Antipsychotic
547	**Discovery	SK Corp	YKP-1358	Schizophrenia		Antipsychotic
548	Discontinued	Yamanouchi Pharmaceutical Co Ltd	YM-90K	Cerebrovascular ischemia	AMPA receptor antagonist	Neuroprotectant
549	*Pre-registration (Phase 3 Clinical)	Elan Pharmaceuticals Inc	ziconotide	Neurodegenerative disease; Cardiac failure; Cardiovascular disease; Cerebrovascular ischemia; Head injury	Calcium channel blocker, N-type	Neuroprotectant, Analgesic; Vasodilatory agent
550	No Development Reported	Yamanouchi Pharmaceutical Co Ltd	Zonampanel	Cerebrovascular ischemia	AMPA receptor antagonist	Neuroprotectant
551	**Phase 2 Clinical	Shanghai Institute of Materia Medica	ZT-1	Alzheimers disease	Acetylcholinesterase inhibitor	Nootropic agent

Glossary

No Development Reported: No evidence of continuing development has been reported for the past 18 months.

Discontinued: Confirmation from the company source that in-house development has been terminated.

Research Tool: Compounds that are not used as a drug, but needed to investigate the function of a specific compound, which might result in a drug.

Discovery: Late research state, preparation for human testing: adaptation of research chemical synthesis (mg) to larger scale (kg), selection of salt form, selection of galenical form, design of clinical proof of concept studies, definition of endpoints, selection of biomarkers for clinical testing, additional safety testing, IND (investigational new drug) filing, clinical ethical review boards.

Phase 1: Clinical testing: tolerance in humans, repeated dosing, some escalation; proof of therapeutic concept or mechanism using scientific evaluation methods in a limited number of volunteers or patients.

Phase 2: Dose-finding studies, statistics, double blind studies.

Phase 3: Proof of efficacy, comparison to standard therapy, statistics, double blind studies with up to thousands of patients. Final phase of testing before registration and license to market.

Sources

'Investigational Drugs database, Copyright Current Drugs 2004, <http://www.iddb3.com>'

'The Final Neuroprotection Report, Bolt International Healthcare & Pharmaceutical Research, February 2003'

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