**S1 SUPPLEMENTARY DATA**

A detailed overview of the search components to identify animal studies for Alzheimer’s disease.

**SC1: Aripiprazole**

(“14597, OPC”[MeSH Terms] OR “7-(4-(4-(2,3-dichlorophenyl)-1-piperazinyl)butyloxy)-3,4-dihydro-2(1H)-quinolinone”[MeSH Terms] OR Abilify[MeSH Terms] OR Aripiprazol[MeSH Terms] OR aripiprazole[MeSH Terms] OR “OPC 14597”[MeSH Terms] OR OPC-14597[MeSH Terms] OR “14597, OPC”[All Fields] OR “7-(4-(4-(2,3-dichlorophenyl)-1-piperazinyl)butyloxy)-3,4-dihydro-2(1H)-quinolinone”[All Fields] OR Abilify[All Fields] OR Aripiprazol[All Fields] OR aripiprazole[All Fields] OR “OPC 14597”[All Fields] OR OPC-14597[All Fields])

**SC1: Bapineuzumab**

(Bapineuzumab[MeSH Terms] OR bapineuzumab[MeSH Terms] OR AAB-001[MeSH Terms] OR “AAB 001”[MeSH Terms] OR AAB001[MeSH Terms] OR Bapineuzumab[All Fields] OR bapineuzumab[All Fields] OR AAB-001[All Fields] OR “AAB 001”[All Fields] OR AAB001[All Fields])

**SC1: Celecoxib**

(“4-(5-(4-methylphenyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl)benzenesulfonamide”[MeSH Terms] OR “58635, SC”[MeSH Terms] OR Celebrex[MeSH Terms] OR celecoxib[MeSH Terms] OR “SC 58635” [MeSH Terms] OR SC-58635[MeSH Terms] OR SC58635[MeSH Terms] OR “4-(5-(4-methylphenyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl)benzenesulfonamide” [All Fields] OR “58635, SC”[All Fields] OR Celebrex[All Fields] OR celecoxib[All Fields] OR “SC 58635” [All Fields] OR SC-58635[All Fields] OR SC58635[All Fields])

**SC1: Donepezil**

(“1-benzyl-4-((5,6-dimethoxy-1-indanon)-2-yl)methylpiperidine hydrochloride”[MeSH Terms] OR Aricept[MeSH Terms] OR donepezil[MeSH Terms] OR “donepezil hydrochloride”[MeSH Terms] OR “donepezilium oxalate trihydrate”[MeSH Terms] OR “E 2020”[MeSH Terms] OR E-2020[MeSH Terms] OR E2020[MeSH Terms] OR Eranz[MeSH Terms] OR “1-benzyl-4-((5,6-dimethoxy-1-indanon)-2-yl)methylpiperidine hydrochloride”[All Fields] OR Aricept[All Fields] OR donepezil[All Fields] OR “donepezil hydrochloride”[All Fields] OR “donepezilium oxalate trihydrate”[All Fields] OR “E 2020”[All Fields] OR E-2020[All Fields] OR E2020[All Fields] OR Eranz[All Fields])

**SC1: Folate**

(“B9, Vitamin” [MeSH Terms] OR Folacin[MeSH Terms] OR Folate[MeSH Terms] OR “Folic Acid”[MeSH Terms] OR “Folic Acid, (D)-Isomer”[MeSH Terms] OR “Folic Acid, (DL)-Isomer”[MeSH Terms] OR “Folic Acid, Calcium Salt (1:1)”[MeSH Terms] OR “Folic Acid, Monopotassium Salt”[MeSH Terms] OR “Folic Acid, Monosodium Salt”[MeSH Terms] OR “Folic Acid, Potassium Salt”[MeSH Terms] OR “Folic Acid, Sodium Salt”[MeSH Terms] OR Folvite[MeSH Terms] OR “Pteroylglutamic Acid”[MeSH Terms] OR “Vitamin B9”[MeSH Terms] OR “Vitamin M”[MeSH Terms] OR “B9, Vitamin” [All Fields] OR Folacin[All Fields] OR Folate[All Fields] OR “Folic Acid”[All Fields] OR “Folic Acid, (D)-Isomer”[All Fields] OR “Folic Acid, (DL)-Isomer”[All Fields] OR “Folic Acid, Calcium Salt (1:1)”[All Fields] OR “Folic Acid, Monopotassium Salt”[All Fields] OR “Folic Acid, Monosodium Salt”[All Fields] OR “Folic Acid, Potassium Salt”[All Fields] OR “Folic Acid, Sodium Salt”[All Fields] OR Folvite[All Fields] OR “Pteroylglutamic Acid”[All Fields] OR “Vitamin B9”[All Fields] OR “Vitamin M”[All Fields])

**SC1: Galantamine**

(Galantamin[MeSH Terms] OR Galantamine[MeSH Terms] OR Galanthamine[MeSH Terms] OR “Galanthamine Hydrobromide”[MeSH Terms] OR Lycoremine[MeSH Terms] OR Nivalin[MeSH Terms] OR Nivaline[MeSH Terms] OR Razadyne[MeSH Terms] OR Reminyl[MeSH Terms] OR Galantamin[All Fields] OR Galantamine[All Fields] OR Galanthamine[All Fields] OR “Galanthamine Hydrobromide”[All Fields] OR Lycoremine[All Fields] OR Nivalin[All Fields] OR Nivaline[All Fields] OR Razadyne[All Fields] OR Reminyl[All Fields])

**SC1: IGIV**

(IGIV[MeSH Terms] OR “intravenous immunoglobulin”[MeSH Terms] OR IVIG[MeSH Terms] OR IGIV[All Fields] OR IVIG[All Fields] OR “intravenous immunoglobulin”[All Fields])

**SC1: Indomethacin**

(Amuno[MeSH Terms] OR “Hydrochloride, Indomethacin”[MeSH Terms] OR Indocid[MeSH Terms] OR Indocin[MeSH Terms] OR “Indomet 140” [MeSH Terms] OR Indometacin[MeSH Terms] OR Indomethacin[MeSH Terms] OR “Indomethacin Hydrochloride”[MeSH Terms] OR Metindol[MeSH Terms]OR Osmosin[MeSH Terms] OR Amuno[All Fields] OR “Hydrochloride, Indomethacin”[All Fields] OR Indocid[All Fields] OR Indocin[All Fields] OR “Indomet 140” [All Fields] OR Indometacin[All Fields] OR Indomethacin[All Fields] OR “Indomethacin Hydrochloride”[All Fields] OR Metindol[All Fields]OR Osmosin[All Fields])

**SC1: Leucomethylthioninium (LMTM)**

(“leuco-methylthioninium”[MeSH Terms] OR “leucomethylene blue”[MeSH Terms] OR

“leukomethylene blue”[MeSH Terms] OR “LMTX compound”[MeSH Terms] OR Panatone[MeSH Terms] OR TRx0237[MeSH Terms] OR “leuco-methylthioninium”[All Fields] OR “leucomethylene blue”[All Fields] OR “leukomethylene blue”[All Fields] OR “LMTX compound”[All Fields] OR Panatone[All Fields] OR TRx0237[All Fields])

**SC1: Memantine**

(1,3-Dimethyl-5-aminoadamantane[MeSH Terms] OR 1,3-Dimethyl-5-aminoadamantane[All Fields] OR 1-Amino-3,5-dimethyladamantane[MeSH Terms] OR 1-Amino-3,5-dimethyladamantane[All Fields] OR Axura[MeSH Terms] OR Axura[All Fields] OR “D 145”[MeSH Terms] OR “D 145”[All Fields] OR D-145[MeSH Terms] OR D-145[All Fields] OR D145[MeSH Terms] OR D145[All Fields] OR Ebixa[MeSH Terms] OR Ebixa[All Fields] OR Memantin[MeSH Terms] OR Memantin[All Fields] OR Memantine[MeSH Terms] OR Memantine[All Fields] OR “Memantine Hydrochloride”[MeSH Terms] OR “Memantine Hydrochloride”[All Fields] OR Namenda[MeSH Terms] OR Namenda[All Fields])

**SC1: Naproxen**

(Aleve[MeSH Terms] OR Anaprox[MeSH Terms] OR Methoxypropiocin[MeSH Terms] OR Naprosin[MeSH Terms] OR Naprosyn[MeSH Terms] OR Naproxen[MeSH Terms] OR “Naproxen Sodium” [MeSH Terms] OR “Naproxenate, Sodium”[MeSH Terms] OR Proxen[MeSH Terms] OR “Sodium Naproxenate”[MeSH Terms] OR “Sodium, Naproxen”[MeSH Terms] OR Synflex[MeSH Terms] OR Aleve[All Fields] OR Anaprox[All Fields] OR Methoxypropiocin[All Fields] OR Naprosin[All Fields] OR Naprosyn[All Fields] OR Naproxen[All Fields] OR “Naproxen Sodium” [All Fields] OR “Naproxenate, Sodium”[All Fields] OR Proxen[All Fields] OR “Sodium Naproxenate”[All Fields] OR “Sodium, Naproxen”[All Fields] OR Synflex[All Fields])

**SC1: Rivastigmine**

(“(S)-N-ethyl-3-((1-dimethyl-amino)ethyl)-N-methylphenylcarbamate”[MeSH Terms] OR “713, ENA”[MeSH Terms] OR “713, SDZ ENA”[MeSH Terms] OR “ENA 713”[MeSH Terms] OR “ENA 713, SDZ”[MeSH Terms] OR “ENA-713”[MeSH Terms] OR “ENA713”[MeSH Terms] OR Exelon[MeSH Terms] OR “Hydrogen Tartrate, Rivastigmine”[MeSH Terms] OR rivastigmine[MeSH Terms] OR (S)-N-ethyl-3-((1-dimethyl-amino)ethyl)-N-methylphenylcarbamate[All Fields] OR “713, ENA”[All Fields] OR “713, SDZ ENA”[All Fields] OR “ENA 713”[All Fields] OR “ENA 713, SDZ”[All Fields] OR “ENA-713”[All Fields] OR “ENA713”[All Fields] OR Exelon[All Fields] OR “Hydrogen Tartrate, Rivastigmine”[All Fields] OR rivastigmine[All Fields])

**SC1: Rosiglitazone**

(“5-((4-(2-methyl-2-(pyridinylamino)ethoxy)phenyl)methyl)-2,4-thiazolidinedione-2-butenedioate”[MeSH Terms] OR Avandia[MeSH Terms] OR “BRL 49653”[MeSH Terms] OR BRL-49653[MeSH Terms] OR BRL49653[MeSH Terms] OR rosiglitazone[MeSH Terms] OR “rosiglitazone maleate” [MeSH Terms] OR “5-((4-(2-methyl-2-(pyridinylamino)ethoxy)phenyl)methyl)-2,4-thiazolidinedione-2-butenedioate” [All Fields] OR Avandia[All Fields] OR “BRL 49653”[All Fields] OR BRL-49653[All Fields] OR BRL49653[All Fields] OR rosiglitazone[All Fields] OR “rosiglitazone maleate” [All Fields])

**SC1: Semagacestat**

(“LY 411,575”[MeSH Terms] OR “LY 411575”[MeSH Terms] OR “LY 450139”[MeSH Terms] OR “LY-411,575”[MeSH Terms] OR LY-411575[MeSH Terms] OR “LY411,575”[MeSH Terms] OR LY411575[MeSH Terms] OR LY450139[MeSH Terms] OR “N2-((2S)-2-(3,5-difluorophenyl)-2-hydroxyethanoyl)-N1-((7S)-5-methyl-6-oxo-6,7-dihydro-5H-dibenzo(b,d)azepin-7-yl)-L-alaninamide”[MeSH Terms] OR “N2-(2-(3,5-difluorophenyl)-2-hydroxyethanoyl)-N1-(5-methyl-6-oxo-6,7-dihydro-5H-dibenzo(b,d)azepin-7-yl)alaninamide”[MeSH Terms] OR Semagacestat[MeSH Terms] OR “LY 411,575”[All Fields] OR “LY 411575”[All Fields] OR “LY 450139”[All Fields] OR “LY-411,575”[All Fields] OR LY-411575[All Fields] OR “LY411,575”[All Fields] OR LY411575[All Fields] OR LY450139[All Fields] OR “N2-((2S)-2-(3,5-difluorophenyl)-2-hydroxyethanoyl)-N1-((7S)-5-methyl-6-oxo-6,7-dihydro-5H-dibenzo(b,d)azepin-7-yl)-L-alaninamide”[All Fields] OR “N2-(2-(3,5-difluorophenyl)-2-hydroxyethanoyl)-N1-(5-methyl-6-oxo-6,7-dihydro-5H-dibenzo(b,d)azepin-7-yl)alaninamide”[All Fields] OR Semagacestat[All Fields])

**SC1: Solanezumab**

(Solanezumab[MeSH Terms] OR solanezumab[MeSH Terms] OR “LY 2062430”[MeSH Terms] OR LY2062430[MeSH Terms] OR LY-2062430[MeSH Terms] OR Solanezumab[All Fields] OR solanezumab[All Fields] OR “LY 2062430”[All Fields] OR LY2062430[All Fields] OR LY-2062430[All Fields])

**SC1: Tarenflurbil**

(Flurizan[MeSH Terms] OR MPC-7869[MeSH Terms] OR MPC7869[MeSH Terms] OR tarenflurbil[MeSH Terms] OR Flurizan[All Fields] OR MPC-7869[All Fields] OR MPC7869[All Fields] OR tarenflurbil[All Fields])

**SC1: Trazodone**

(“AF 1161”[MeSH Terms] OR AF-1161[MeSH Terms] OR AF1161[MeSH Terms] OR “Apo Trazodone” [MeSH Terms] OR Apo-Trazodone[MeSH Terms] OR Deprax[MeSH Terms] OR Desyrel[MeSH Terms] OR “Gen Trazodone”[MeSH Terms] OR Gen-Trazodone[MeSH Terms] OR Molipaxin[MeSH Terms] OR “Novo Trazodone”[MeSH Terms] OR Novo-Trazodone[MeSH Terms] OR “Nu Trazodone” [MeSH Terms] OR Nu-Trazodone[MeSH Terms] OR “PMS Trazodone”[MeSH Terms] OR PMS-Trazodone[MeSH Terms] OR “ratio Trazodone”[MeSH Terms] OR ratio-Trazodone[MeSH Terms] OR RatioTrazodone[MeSH Terms] OR Thombran[MeSH Terms] OR Tradozone[MeSH Terms] OR “Trazodon Hexal”[MeSH Terms] OR “Trazodon neuraxpharm”[MeSH Terms] OR Trazodon-neuraxpharm[MeSH Terms] OR Trazodone[MeSH Terms] OR “Trazodone Hydrochloride”[MeSH Terms] OR TrazodonNeuraxpharm[MeSH Terms] OR Trazon[MeSH Terms] OR Trittico[MeSH Terms] OR “AF 1161”[All Fields] OR AF-1161[All Fields] OR AF1161[All Fields] OR “Apo Trazodone” [All Fields] OR Apo-Trazodone[All Fields] OR Deprax[All Fields] OR Desyrel[All Fields] OR “Gen Trazodone”[All Fields] OR Gen-Trazodone[All Fields] OR Molipaxin[All Fields] OR “Novo Trazodone”[All Fields] OR Novo-Trazodone[All Fields] OR “Nu Trazodone” [All Fields] OR Nu-Trazodone[All Fields] OR “PMS Trazodone”[All Fields] OR PMS-Trazodone[All Fields] OR “ratio Trazodone”[All Fields] OR ratio-Trazodone[All Fields] OR RatioTrazodone[All Fields] OR Thombran[All Fields] OR Tradozone[All Fields] OR “Trazodon Hexal”[All Fields] OR “Trazodon neuraxpharm”[All Fields] OR Trazodon-neuraxpharm[All Fields] OR Trazodone[All Fields] OR “Trazodone Hydrochloride”[All Fields] OR TrazodonNeuraxpharm[All Fields] OR Trazon[All Fields] OR Trittico[All Fields])

**SC1: Vitamin B12**

(“B 12, Vitamin”[MeSH Terms] OR “B12, Vitamin”[MeSH Terms] OR Cobalamin[MeSH Terms] OR Cobalamins[MeSH Terms] OR Cyanocobalamin[MeSH Terms] OR Eritron[MeSH Terms] OR “Vitamin B 12”[MeSH Terms] OR “Vitamin B12”[MeSH Terms] OR “B 12, Vitamin”[All Fields] OR “B12, Vitamin”[All Fields] OR Cobalamin[All Fields] OR Cobalamins[All Fields] OR Cyanocobalamin[All Fields] OR Eritron[All Fields] OR “Vitamin B 12”[All Fields] OR “Vitamin B12”[All Fields])

**SC1: Vitamin B6**

(Pyridoxin[MeSH Terms] OR Pyridoxine[MeSH Terms] OR “Pyridoxine Hydrochloride”[MeSH Terms] OR Pyridoxol[MeSH Terms] OR “Pyridoxol Hydrochloride”[MeSH Terms] OR Rodex[MeSH Terms] OR Pyridoxin[All Fields] OR Pyridoxine[All Fields] OR “Pyridoxine Hydrochloride”[All Fields] OR Pyridoxol[All Fields] OR “Pyridoxol Hydrochloride”[All Fields] OR Rodex[All Fields])

**SC1: Vitamin E**

(“Vitamin E”[MeSH Terms] OR alpha-tocopherol[MeSH Terms] OR “alpha tocopherol”[MeSH Terms] OR “Vitamin E”[All Fields] OR alpha-tocopherol[All Fields] OR “alpha tocopherol”[All Fields])

**SC2: Disease**

(“alzheimer disease”[MeSH Terms] OR “alzheimer disease”[Text Word] OR “alzheimer’s disease“[MeSH Terms] OR “alzheimer’s disease”[Text Word] OR “disease, alzheimer’s”[MeSH Terms] OR “disease, alzheimer’s”[Text Word] OR “diffuse neurofibrillary tangles with calcification”[MeSH Terms] OR “supranuclear palsy, progressive”[MeSH Terms] OR “diffuse neurofibrillary tangles with calcification”[Text Word] OR “supranuclear palsy, progressive”[Text Word]) NOT (cadasil[MeSH Terms] OR “aids dementia complex”[MeSH Terms] OR “aphasia, primary progressive” [MeSH Terms] OR “Creutzfeldt-Jakob Syndrome” [MeSH Terms] OR “dementia, vascular”[MeSH Terms] OR “dementia, multi-infarct”[MeSH Terms] OR “frontotemporal lobar degeneration”[MeSH Terms] OR “frontotemporal dementia”[MeSH Terms] OR “primary progressive nonfluent aphasia”[MeSH Terms] OR “Huntington Disease”[MeSH Terms] OR “Kluver-Bucy syndrome”[MeSH Terms] OR “Lewy Body disease”[MeSH Terms] OR “diffuse neurofibrillary tangles with calcification”[MeSH Terms] OR “supranuclear palsy, progressive”[MeSH Terms])

**SC3: all animal studies**

Starting from the Animal Search filter as published by Hooijmans et al. [1] we made the following adaptations:

* Remove
	+ doublets: eel[Tiab] OR eels[Tiab] >> following salamanders[Tiab]
	+ OR rupicapras[Tiab] >> gave errors
	+ space: canin [tiab] OR bovine[tiab] OR porcine[tiab] OR hog[tiab] OR hogs[tiab]
* Added
	+ " " to several words
		- “bush babies”[Tiab]
		- “mugil curema”[Tiab]
		- “atlantic cod”[Tiab]
		- “xenopus laevis”[Tiab]

**SC4: Outcome Measure Cognition**

(cognitions[MeSH Terms] OR cognition[MeSH Terms] OR “cognitive function” [MeSH Terms] OR “cognitive functions” [MeSH Terms] OR “function, cognitive” [MeSH Terms] OR “functions, cognitive” [MeSH Terms] OR learning[MeSH Terms] OR memory[MeSH Terms] OR cognitions[Text Word] OR cognition[Text Word] OR “cognitive function” [Text Word] OR “cognitive functions” [Text Word] OR “function, cognitive” [Text Word] OR “functions, cognitive” [Text Word] OR cognitive[Text Word] OR learning[Text Word] OR memory[Text Word])

Reference

1. Hooijmans, C.R., et al., *Enhancing search efficiency by means of a search filter for finding all studies on animal experimentation in PubMed.* Lab Anim, 2010. **44**(3): p. 170-5.