

# The brain is like a muscle. The brain is like a control centre

## Appendix I

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In the presentation of data below, alternative spellings are separated by |, variation in the use of spaces, absence of spaces, or hyphens are indicated by an underscore. Words without a number between brackets occur once in the respective corpus.

### Compounds with *brain*

Popular brain research corpus
<i>brain region</i> (216); <i>brain area</i> (131); <i>brain activity</i> (127); <i>brain scan</i> (120); <i>brain cell</i> (109); <i>brain function</i> (109); <i>brain map</i> (102); <i>brain_stem</i> (71); <i>brain damage</i> (69); <i>brain injury</i> (69); <i>brain system</i> (58); <i>brain science</i> (57); <i>brain imaging</i> (52); <i>brain change</i> (42); <i>brain mechanism</i> (40); <i>brain development</i> (39); <i>forebrain</i> (38); <i>brain structure</i> (37); <i>brain_wave</i> (37); <i>brain state</i> (35); <i>brain circuit</i> (33); <i>brain myth</i> (30); <i>brain circuitry</i> (29); <i>brain plasticity</i> (29); <i>brain_imaging study</i> (28); <i>brain stimulation</i> (22); <i>brain_process</i> (22); <i>brain anatomy</i> (20); <i>brain hemisphere</i> (20); <i>brain network</i> (19); <i>brain research</i> (19); <i>brain tissue</i> (19); <i>brain disease</i> (18); <i>brain size</i> (18); <i>brain wiring</i> (17); ( <i>'split_brain'</i> ) <i>patient</i> (16); <i>brain image</i> (16); <i>brain_power</i> (16); <i>infant brain</i> (16); <i>animal brain</i> (15); <i>brain difference</i> (15); <i>hindbrain</i> (15); <i>brain exercise</i> (14); <i>brain slice</i> (14); <i>brain death</i> (13); <i>brain gym</i> (13); <i>brain-disease model</i> (13); <i>brain abnormality</i> (12); <i>brain chemical</i> (12); <i>brain_tumo(u)r</i> (12); <i>brain chemistry</i> (11); <i>brain scientist</i> (11); <i>brain surgery</i> (11); <i>brain activation</i> (10); <i>brain_imaging technique</i> (10); <i>primate brain</i> (10); <i>rat brain</i> (10); <i>brain lock</i> (9); <i>brain matter</i> (9); <i>brain problem</i> (9); <i>brain reorganization</i> (9); <i>teen brain</i> (9); <i>brain lesion</i> (8); <i>brain-imaging experiment</i> (8); <i>brain blob</i> (7); <i>brain center/centre</i> (7); <i>brain module</i> (7); <i>brain operation</i> (7); <i>brain response</i> (7); <i>brain scanner</i> (7); <i>brain_scan image</i> (7); <i>quantum brain</i> (7); <i>reptile brain</i> (7); <i>brain disorder</i> (6); <i>brain event</i> (6); <i>brain feature</i> (6); <i>brain neuron</i> (6); <i>brain organization</i> (6); <i>brain_imaging technology</i> (6); <i>mini-brain</i> (6); <i>brain initiative</i> (5); <i>brain location</i> (5); <i>brain malfunction</i> (5); <i>brain signal</i> (5); <i>brain term</i> (5); <i>brain training company</i> (5); <i>brain volume</i> (5); <i>brain_scan study</i> (5); <i>brain_scanning</i> (5); <i>brain_scanning study</i> (5); <i>brain-scan evidence</i> (5); <i>human brain project</i> (5); <i>whole-brain process</i> (5); <i>brain connectivity</i> (4); <i>brain defect</i> (4); <i>brain evolution</i> (4); <i>brain food</i> (4); <i>brain illness</i> (4); <i>brain mapping</i> (4); <i>brain pathway</i> (4); <i>brain processing</i> (4); <i>brain property</i> (4); <i>brain_machine interface</i> (4); <i>brain-cell connection</i> (4); <i>forebrain bundle</i> (4); <i>left_brain_right_brain myth</i> (4); <i>lizard brain</i> (4); <i>monkey brain</i> (4); <i>split-brain surgery</i> (4); <i>brain action</i> (3); <i>brain atrophy</i> (3); <i>brain capacity</i> (3); <i>brain claim</i> (3); <i>brain connection</i> (3); <i>brain dopamine</i> (3); <i>brain dysfunction</i> (3); <i>brain glitch</i> (3); <i>brain implant</i> (3); <i>brain inactivity</i> (3); <i>brain message</i> (3); <i>brain mythology</i> (3); <i>brain pattern</i> (3); <i>brain physiology</i> (3); <i>brain training game</i> (3); <i>brain trap</i> (3); <i>brain_basis</i> (3); <i>brain_stem cell</i> (3); <i>brain_washing</i> (3); <i>brain-wave technology</i> (3); <i>Brainworks<sup>1</sup> clinic</i> (3); <i>chimp brain</i> (3); <i>mind-brain</i> (3); <i>mind-brain interface</i> (3); <i>mind-brain problem</i> (3); <i>mind-brain relation</i> (3); <i>sensory brain map</i> (3); <i>baby brain</i> (2); <i>brain construction</i> (2); <i>brain deficit</i> (2); <i>brain enhancement</i> (2); <i>brain experiment</i> (2); <i>brain findings</i> (2); <i>brain fingerprinting</i> (2); <i>brain functioning</i> (2); <i>brain growth</i> (2); <i>brain half</i> (2); <i>brain hardware</i> (2); <i>brain imaging machine</i> (2); <i>brain imaging research</i> (2); <i>brain imaging result</i> (2); <i>brain infection</i> (2); <i>brain injury patient</i> (2); <i>brain leverages</i> (2); <i>brain map change</i> (2); <i>brain map space</i> (2); <i>brain neuromodulator</i> (2); <i>brain observatory</i> (2); <i>brain pathology</i> (2); <i>brain phenomenon</i> (2); <i>brain resource</i> (2); <i>brain scam</i> (2); <i>brain scan data</i> (2); <i>brain scan result</i> (2); <i>brain spot</i> (2); <i>brain stem function</i> (2); <i>brain story</i> (2); <i>brain surface</i> (2); <i>brain technique</i> (2); <i>brain technology</i> (2); <i>brain territory</i> (2); <i>brain training exercise</i> (2); <i>brain training program</i> (2); <i>brain trauma</i> (2); <i>brain weight</i> (2); <i>brain_scanning technique</i> (2); <i>brain_stem mechanism</i> (2); <i>brain_wave pattern</i> (2); <i>brain-behavior relationship</i> (2); <i>brainchild</i> (2); <i>brain-disease fallacy</i> (2); <i>brain-disease narrative</i> (2); <i>brain-disease paradigm</i> (2); <i>brain-imaging paper</i> (2); <i>brain-injury testimony</i> (2); <i>BrainPort<sup>2</sup></i> (2); <i>brainstorm</i> (2); <i>brain-wave data</i> (2); <i>chimpanzee brain</i> (2); <i>fMRI brain scan</i> (2); <i>fMRI brain scan image</i> (2); <i>forebrain area</i> (2); <i>gender brain difference</i> (2); <i>home brain implant</i> (2); <i>midbrain</i> (2); <i>mind_brain connection</i> (2); <i>mind-brain dynamics</i> (2); <i>mind-brain enigma</i> (2); <i>mind-brain theory</i> (2); <i>OCD<sup>3</sup> brain lock</i> (2); <i>rodent brain</i> (2); <i>sensory brain map</i> (2); <i>social-brain hypothesis</i> (2); <i>split-brain</i> (2); <i>split-brain study</i> (2); <i>'lying brain' signature</i> ; <i>'Volitional Brain' papers</i> ; <i>alpha brain activity</i> ; <i>alpha brain wave</i> ; <i>alpha frequency brain wave</i> ; <i>ATR Brain Information Communication Research Laboratory</i> ; <i>Bachy's Figured Maple Brain<sup>4</sup></i> ; <i>Balance Brain Centre</i> ; <i>beta frequency brain wave</i> ; <i>bird-brain equivalent</i> ; <i>blood-brain barrier</i> ; <i>Blue Brain Project</i> ; <i>bonobo brain</i> ; <i>brain aberration</i> ; <i>brain adaptability</i> ; <i>brain adaptation</i> ; <i>brain aging</i> ; <i>brain alteration</i> ; <i>brain amygdala</i> ; <i>brain anatomist</i> ; <i>brain aneurysm</i> ; <i>brain approach</i> ; <i>brain architecture</i> ; <i>brain atlas</i> ; <i>brain balance</i> ; <i>brain basics</i> ; <i>brain benefit</i> ; <i>brain bias</i> ; <i>brain biochemistry</i> ; <i>brain bit</i> ; <i>brain blip</i> ; <i>brain blood</i> ; <i>brain book</i> ; <i>Brain</i>

<sup>1</sup> Ergonym.

<sup>2</sup> Ergonym.

<sup>3</sup> 'obsessive compulsive disorder'

<sup>4</sup> Work of handcraft/art.

Bug<sup>5</sup>; brain bypass; brain cell type; brain centrism; brain chatter; brain child; brain chip; brain cohesion; brain cohesiveness; brain colonizing; brain configuration; brain creative capability; brain defence; brain democracy; brain difficulty; brain division; brain drink; brain driver; brain electrical oscillation signature test; brain energy metabolism; brain energy use; brain enthusiast; brain evidence; brain exercise program; brain fingerprinting standards; brain fitness center; brain fitness industry; brain flaw; brain footprint; brain fundamental; brain glue; brain health; brain housekeeping; brain imaging biomarker; brain imaging hype; brain imaging method; brain imaging science; brain imaging tool; brain imbalance; brain incapacitation; brain infection; brain information; brain ingredient; brain injury charity; brain injury misconception; brain injury recovery; brain injury victim; brain insult; brain interconnection; brain jelly; brain joke; brain knowledge; Brain Landscapes<sup>6</sup>; brain lesion research; brain level; brain lobe; brain lock approach; brain locus; brain map location; brain map processing area; brain maturation; brain maturity; brain maximum; brain measure; brain memory; brain metabolism; brain neighborhood; brain neurotransmitter; brain oscillation; brain overclaimer; brain oxygen level; brain part; brain porn; brain practice; brain privacy; brain quality; brain reactivity; brain reading; brain receptor; brain recording; brain recovery; brain reference; brain rehabilitation; brain representation; brain reward; brain sample; brain scan approach; brain scan research; brain sense; brain sex; brain sex difference; brain shock; brain shrinkage; brain side; brain signalling molecule; brain signalling system; brain site; brain skill; brain soup; brain stem arousal circuit; brain stem arousal network; brain stem arousal system; brain stem monoamine system; brain stem output; brain study; brain stuff; brain switch; brain terminology; brain theory; brain time; brain training literature; brain transition; brain treatment; brain wave feedback; brain wave signal; brain/mind; brain-assessment technology; brainbody connection; brain-cell connectivity; brain-cell networking; brain-cell process; brain-disease branding; brain-disease camp; brain-disease concept; brain-disease purist; brain-disease story; brain-imaging data; brain-imaging detection; brain-imaging expert; brain-imaging finding; brain-imaging researcher; brain-imaging software; brain-injury case; brainjacker; BrainMatters<sup>7</sup>; brain-mind identity; brain-scan evaluation; brain-scan lie detection; brain-scan lie detector; brain-scan signature; brain-scanning; brain-scanning experiment; brain-scanning machine; brain-scanning procedure; brain-scanning technology; brainstem stroke; brainstorming session; brainstuff; brain-to-be; brain-to-behavior narrative; brain-training game; brain-wave analysis; brain-wave blip; brain-wave interrogation; brainwave oscillation; brainwave ratio; brain-wave study; Brainworks<sup>8</sup> clinic; cephalopod brain; cognition-brain correlation; computer-brain interface; dog brain; don't-blame-me-blame-my-brain theory; EEG brain-wave profile; election brain scan; electron plasma brain; elephant brain; Face iMake Right Brain Creativity app; fMRI brain scan study; fMRI brain-scanner; forebrain circuit; forebrain nuclei; functional magnetic resonance brain imaging; gorilla brain; gut-and-brain dialogue; Headway brain injury charity; higher-brain region; hostage brain; human infant brain growth; hunter-gatherer brain module; idiot brain; Iron Age brain ; Jennifer Aniston brain cell; journal brain; left brain hemisphere; left brain right brain game; left-brain activity; left-brain function; left-brain hemisphere; left-brain homologue; left-brain language; left-brain learner; left-brain management; left-brain network; left-brain personality myth; left-brain right-brain obsession; logical left-brain. creative right-brain myth; macro-brain region; medial temporal lobe brain region; median nerve brain map; Merzenich<sup>9</sup> brain; mind-brain debate; mind-brain dichotomy; mind-brain link; mind-brain mystery; mind-brain philosophy; mind-brain question; money brain; monkey brain surgery; motor brain map; mouse brain; MRI brain scan; MTL<sup>10</sup> brain region; OCD brain data; OCD brain imaging work; OCD brain scan; Penfield brain map; PET brain scan; positron emission tomography brain scan; Quantum Brain conference; rabbit brain; rat-brain slice; right brain area; right brain creative capability; right brain hemisphere; right-brain activation; right-brain learner; right-brain marketing; right-brain religion; right-brain stroke; Salesbrain<sup>11</sup>; Scientific American Brainwaves blog; social brain hypothesis; split-brain research; two-factions-in-one-brain phenomenon; upright position brain power; whale brain

### Professional brain research corpus

brain region (157); brain activity (147); brain network (88); brain function (80); brain area (58); rat brain (30); brainstem (27); brain oscillation (25); brain structure (22); fore\_brain (21); brain change (18); brain stimulation (18); brain injury (16); brain organization (16); mouse brain (14); brain damage (13); brain connectivity (12); brain activation (11); brain lesion (11); brain system (11); brain cortex (10); brain dynamics (10); brain imaging (10); brain response (10); brain-body-behavior network (10); brain slice (9); brain tissue (9); brain aging (8); brain size (8); midbrain (8); blood\_brain barrier (7); brain development (7); brain disease (7); brain mechanisms (7); brain mitochondria (7); brain pathology (7); brain state (7); brain volume (7); culture-brain interaction (7); brain circuit (6); brain disorder (6); brain reserve (6); AD brain (5); brain imaging work (5); brain level (5); brain network topology (5); brain section (5); brain\_network organization (5); brain architecture (4); brain cells (4); brain computation (4); brain image (4); brain plasticity (4); brain representation (4); brain sample (4); brain science (4); brainvision<sup>12</sup> (4); bird brain (3); brain anatomy (3); brain dysfunction (3); brain hub (3); brain information (3); brain lysate (3); brain maintenance (3); brain weight (3); brain-network nature (3); deep brain stimulation<sup>13</sup> (3); fly brain (3); Hungarian brain research program (3); primate brain (3); Bayesian brain hypothesis (2);

<sup>5</sup> Book title.

<sup>6</sup> Book title.

<sup>7</sup> Ergonym.

<sup>8</sup> Ergonym.

<sup>9</sup> Neuroscientist.

<sup>10</sup> 'medial temporal lobe'

<sup>11</sup> Ergonym

<sup>12</sup> Ergonym.

<sup>13</sup> Adjectives are only considered if there is strong evidence that the whole expression is interpreted as a tight unit (e.g. if a corresponding acronym exists, e.g. *DBS* for 'deep brain stimulation') and/or if the word is a phrasal

*brain ANX-network (2); brain BDNF level (2); brain BDNF protein content (2); brain challenge (2); brain circuitry (2); brain cortex slice (2); brain evolution (2); brain field potential (2); brain functionality (2); brain health (2); brain imaging study (2); brain maturation (2); brain measures (2); brain metabolism (2); brain network development (2); brain network property (2); brain phenotype (2); brain physiology (2); brain potential (2); brain processes (2); brain product/brainproduct<sup>14</sup> (2); brain rhythm (2); brain study (2); brain synaptogenesis (2); brain systems-level (2); brain vision/brainvision analyzer<sup>15</sup> (2); brain-as-predictor approach (2); CultureBehaviorBrain Loop Model/ culture-behavior-brain loop model (2); event-related brain potential (2); lamprey brain (2); WT brain (2); blood brain barrier penetration; blood-brain correlation; brain 5-HT; brain abnormality; brain activation pattern; brain activity phenomenon; brain amount; brain AMP MR plus; brain amyloid; brain atlas; brain atrophy; brain aversion system; brain basis; brain biology; brain chemistry; brain complexity; brain connectivity pattern; brain CSF content; brain deficits; brain dissection; brain ECOG signal; brain effects; brain electrode; brain excitability; brain exploration technique; brain extraction; brain functioning; brain growth; brain hemisphere; brain homeostasis; brain homogenate; brain imaging recording; brain imaging research; brain imaging result; brain inflammation; brain ischemia; brain lateralization; brain lysate preparation; brain mapping; brain mass; brain methylome; brain micropunch; brain microvasculature; brain milieu; brain model; brain models community; brain navigation; brain ne; brain network function; brain network level; brain network metrics; brain network model; brain network research; brain network size; brain network structure; brain network substrate; brain network systems-level; brain neuron; brain nucleus; brain parcellation; brain parenchyma; brain performance; brain pictures; brain plaque burden; brain processing; brain quantity; brain recruitment; brain research; brain reserve/maintenance; brain resource; brain scan; brain scanner; brain science discipline; brain shield; brain signal; brain snare; brain space; brain specimen; brain subregion; brain surface reconstruction; brain tau pathology; brain template; brain theory; brain tissue sample; brain traits; brain trauma; brain-activity data; brain-activity pattern; brain-behavior correlation; brainbehavior interaction; brainbehaviour relationship; braincloud16; brain-imaging approach; brain-imaging evidence; brain-imaging technique; brain-mapping study; brain-network abnormality; brain-network disorder; brain-network efficiency; brain-network interaction; brainvision quick-amp-72 amplifier; drosophila brain; EEG brain activity; human brain gene transcription data; MaxiK channel brain interactome; MaxiK channel brain physiology; McKnight Brain Research Foundation and NIH Grant; mice brain immunoprecipitate; mouse brain atlas; mouse brain homogenate; mouse brain mitochondria; neonatal brain injury; pigeon brain; rat brain homogenate; rat brain protein; rat brain section; rodent brain ; rodent brain gene transcription data; subunit brain interactome; SWS brain rhythm;*

**Supplementary Table A:** Compounds with *brain* in the professional brain research corpus and the popular brain research corpus.

## Neurotransmitters

### Popular brain research corpus

*dopamine (262); neurotransmitter (153); serotonin (115); GABA (91); glutamate (85); transmitter (81); monoamine (65); oxytocin (56); peptide (37); norepinephrine (26); acetylcholine (24); vasopressin (21); noradrenaline (15); neuromodulator (8); endorphin (8); monoamine oxidase (8); opioid (7); enkephalin (4); epinephrine (3); gamma-aminobutyric acid (3); histamine (3); adrenaline (2); brain neuromodulator (2); nitric oxide (2); psychoactive substance (2); tyramine (2); 5-hydroxytryptamine; ACTH<sup>17</sup>; adenosine; neuroactive substance; NO; secretin*

compound, i.e. if the adjective modifies the modifier (e.g. in *deep brain stimulation*, *deep* modifies *brain*, i.e. 'deep inside the brain', not *stimulation*).

<sup>14</sup> Ergonym.

<sup>15</sup> Ergonym.

<sup>16</sup> Ergonym.

<sup>17</sup> 'adrenocorticotrophic hormone'

### Professional brain research corpus

*adenosine* (142); *GABA*<sup>18</sup> (139); *VIP*<sup>19</sup> (114); *NE*<sup>20</sup> (102); *dopamine* (90); *5-HT*<sup>21</sup> (75); *neurotransmitter* (51); *A<sub>1</sub>R* (79); *A<sub>2A</sub>R* (62); *A<sub>3</sub>R* (56);<sup>22</sup> *ACh*<sup>23</sup> (49); *glutamate* (49); *peptide* (49); *GRP*<sup>24</sup> (44); *VPAC1*<sup>25</sup> (37); *AEA*<sup>26</sup> (29); *serotonin* (29); *5-HIAA*<sup>27</sup> (25); *A<sub>2B</sub>R* (24); *5-HT1A*<sup>28</sup> (21); *DA* (17); *neuropeptide* (17); *acetylcholine* (16); *glycine* (14); *norepinephrine* (12); *AVP*<sup>29</sup> (11); *ATP*<sup>30</sup> (9); *opioid* (8); *monoamine* (7); *5-hydroxytryptamine* (6); *anandamide* (6); *gamma-aminobutyric acid* (5); *nitric oxide* (5); *CGRP*<sup>31</sup> (4); *gastrin-releasing peptide* (4); *gliotransmitter* (4); *neuromodulator* (4); *noradrenaline* (4); *vasopressin* (4); *bombesin* (2); *calcitonin gene-related peptide* (2); *NO*<sup>32</sup> (2); *purine* (2); *Ser* (2); *serotonin-1b* (2); *transmitter* (2); *beta-amyloid peptide*; *CART*<sup>33</sup>; *epinephrine*; *glucagon*; *histamine*; *oxytocin*; *secretin*

**Supplementary Table B:** Terms for neurotransmitters in the professional brain research corpus and the popular brain research corpus.

## Neurocytology

### Popular brain research corpus

*neuron* (1.133); *cell* (549); *synapse* (310); *nerve* (187); *axon* (144); *brain cell* (111); *mirror neuron* (84); *postsynaptic cell* (73); *dendrite* (54); *gray/grey matter* (38); *glia* (37); *motor neuron* (33); *cell body* (31); *terminal* (30); *basal ganglion* (29); *pre\_synaptic terminal* (29); *nucleus accumbens* (27); *postsynaptic neuron* (26); *projection cell* (24); *nerve cell* (23); *neuronal network* (22); *sensory nerve* (22); *white matter* (20); *central nucleus* (19); *lateral nucleus* (19); *nerve fiber/fibre* (19); *sensory neuron* (19); *stem\_cell* (19); *membrane* (18); *presynaptic neuron* (18); *caudate nucleus* (17); *neuronal circuit* (16); *astrocyte* (15); *axon terminal* (15); *glial cell* (15); *motor nerve* (14); *TAN*<sup>34</sup> (14); *nucleus basalis* (13); *projection neuron* (13); *interneuron* (12); *peripheral nerve* (12); *presynaptic cell* (12); *receiving neuron* (12); *nucleus* (11); *GABA cell* (10); *neuronal stem cell* (10); *node* (9); *amygdala cell* (8); *cell membrane* (8); *dopamine cell* (8); *vesicle* (8); *basal nucleus* (7); *brain neuron* (6); *cortical cell* (6); *cortical neuron* (6); *ganglion* (6); *neuronal axon* (6); *basal ganglia circuit* (5); *bed nucleus* (5); *hub cell* (5); *inhibitory interneuron* (5); *motor cell* (5); *myelin* (5); *nerve pathway* (5); *parabrachial nucleus* (5); *soma* (5); *amygdala projection cell* (4); *dopamine neuron* (4); *ganglion cell* (4); *inhibitory neuron* (4); *input cell* (4); *lateral geniculate nucleus* (4); *nerve path* (4); *neural stem cell* (4); *output cell* (4); *place cell* (4); *receptor cell* (4); *tegmental cell* (4); *tripartite synapse* (4); *association neuron* (3); *brain\_stem cell* (3); *cell nucleus* (3); *cell wall* (3); *cranial nerve* (3); *dopamine-producing neuron* (3); *excitatory interneuron* (3); *excitatory neuron* (3); *glia cell* (3); *hippocampal cell* (3); *hippocampal neuron* (3); *myelination* (3); *nerve ending* (3); *nerve terminal* (3); *prefrontal cell* (3); *support cell* (3); *white\_matter tract* (3); *accumbens cell* (2); *amygdala neuron* (2); *axon branch* (2); *corpuscle* (2); *cortical synapse* (2); *dendritic spine* (2); *dentate cell* (2); *excitatory cell* (2); *frog nerve* (2); *GABA inhibitory cell* (2); *GABA synapse* (2); *Hebbian synapse* (2); *LGN* (2); *local circuit cell* (2); *nerve bundle* (2); *neuron terminal* (2); *neuronal structure* (2); *non\_neural cell* (2); *norepinephrine cell* (2); *OFC cell* (2); *oligodendrocyte* (2); *precursor cell* (2); *presynaptic axon* (2); *protoneuron* (2); *radial glia* (2); *sensory terminal* (2); *serotonin cell* (2); *short-axon neuron* (2); *synaptic vesicle* (2); *thalamic axon* (2); *thalamic cell* (2); *tonically active neuron* (2); *transmitting neuron* (2); *trisynaptic circuit* (2); *accumbens circuits*; *aplysia neuron*; *astrocyte cell*; *auditory cortex neuron*; *axoaxonic synapse*; *axon branching*; *axon membrane*; *axon wall*; *axonal branch*; *axonal terminal*; *axonal wire*; *basal ganglia structure*; *bipolar cell*; *brain synapse*; *cortex cell*; *dopamine cell body*; *dopamine terminal*; *embryonic cell*; *embryonic dopamine neuron*; *excitatory glutamate cell*; *excitatory projection cell*; *GABA interneuron*; *GABA neuron*;

<sup>18</sup> ‘gamma-aminobutyric acid’

<sup>19</sup> ‘vasoactive intestinal peptide’

<sup>20</sup> ‘norepinephrine’

<sup>21</sup> ‘5-hydroxytryptamine’

<sup>22</sup> ‘adenosine receptors of different types (A<sub>1</sub>, A<sub>2A</sub>, A<sub>2B</sub>, A<sub>3</sub>)’

<sup>23</sup> ‘acetylcholine’

<sup>24</sup> ‘gastrin-releasing peptide’

<sup>25</sup> ‘VIP/PACAP receptors’

<sup>26</sup> ‘N-arachidonylethanolamine’

<sup>27</sup> ‘5-Hydroxyindoleacetic acid’

<sup>28</sup> ‘5-hydroxytryptamine receptor type 1A’

<sup>29</sup> ‘arginine vasopressin’

<sup>30</sup> ‘adenosine triphosphate’

<sup>31</sup> ‘calcitonin gene-related peptide’

<sup>32</sup> ‘nitric oxide’

<sup>33</sup> ‘cocaine- and amphetamine-regulated transcript’

<sup>34</sup> ‘tonically active neuron’

*GABA terminal; glial brain cell; glutamate projection cell; gray cell; Hebb synapse; human brain cell; human cell; human neuron; human neuron axon; hypothalamic neuron; inhibition neuron; inhibitory cell; inhibitory synapse; insect neuron; local circuit neuron; medial nucleus; messenger cell; microglia; middle-layer cell; monoamine cell; motor-programming neuron; multisensory cell; nerve branch; nerve cluster; nerve tube; nervous tissue; neurofibril; neuronal brain cell; neuronal cell body; neuronal population; neuronal synapse; neuron-by-neuron circuit; non-motor neuron; nonneural precursor cell; non-neuronal brain cell; orbital frontal cortex neuron; orbital frontal cortex basal ganglion; output nerve; parietal neuron; peripheral nerve branch; postsynaptic cell body; postsynaptic dendrite; postsynaptic terminal; prefrontal neuron; prefrontal synapse; presynaptic axon terminal; presynaptic ending; pulvinar nucleus; Schwann cell; sensory neuron terminal; septal nucleus; serotonin terminal; somatosensory axon; spinal cord synapse; spinal nerve; subthalamic nucleus; synaptic axonal terminal; synaptic axonal terminal; TAN cell; terminal branches; terminal vesicle; thalamus cell; transmission cell; ventral tegmental dopamine neuron; vestibulocochlear nerve*

**Professional brain research corpus**

*neuron (669); SCN<sup>35</sup> (303); cell (296); astrocyte (257); synapse (114); microglia (111); axon (104); glial cell (59); RS neuron (57); nerve (51); SCN neuron (47); STN<sup>36</sup> (44); glia (38); nucleus (35); BV-2 microglia (32); CA1<sup>37</sup> pyramidal neuron (32); granule (32); vesicle (31); basal ganglion (30); white matter (29); granule cell (27); microglial cell (25); VH<sup>38</sup> neuron (23); gray/grey matter (22); LG<sup>39</sup> (22); hippocampal neuron (21); TRG<sup>40</sup> neuron (20); LC<sup>41</sup> neuron (18); high regeneration capacity neuron (15); pyramidal neuron (15); SG<sup>42</sup> (15); low regeneration capacity neuron (14); interneuron (13); Mth<sup>43</sup> neuron (13); myelination (13); nerve terminal branch (13); NG<sup>44</sup> (13); nucleus accumbens (13); terminal (13); caudate nucleus (12); cell body (12); cortical neuron (12); neuronal population (12); plasma membrane (12); tripartite synapse (12); motor neuron (11); oligodendrocyte (11); SCN shell (11); stem cell (11); suprachiasmatic nucleus (11); inhibitory neuron (10); nerve fiber (10); neuronal membrane (10); organelle (10); subthalamic nucleus (10); excitatory neuron (9); neuronal network (9); node (9); presynaptic terminal (9); BV-2 cell (8); cytoplasm (8); lateral glia (8); neuronal circuit (8); soma (8); BV\_2 microglial cell (7); CA1 pyramidal cell (7); CA3<sup>45</sup> pyramidal cell (7); ending (7); myelin (7); SCN core (7); SCN network (7); ameboid microglia (6); cell body (6); LGN<sup>46</sup> (6); peripheral nerve (6); projection neuron (6); spinal-projecting neuron (6); AC<sup>47</sup> neuron (5); CA1 neuron (5); dendrite (5); GCL<sup>48</sup> (5); hippocampal CA1 pyramidal neuron (5); intermediate regeneration capacity neuron (5); lateral geniculate nucleus (5); Mth cell (5); nerve terminal branching (5); PAG<sup>49</sup> (5); paraventricular nucleus (5); postsynaptic neuron (5); pre-synaptic vesicle (5); primary neuron (5); SCN circuitry (5); A1 neuron (4); CNS<sup>50</sup> neuron (4); cytotrophoblast cell (4); excitatory terminal (4); glutamatergic neuron (4); granule cell layer (4); inhibitory terminal (4); LPFC neuron (4); neuronal subpopulation (4); perforant path synapse (4); Repo-expressing LG (4); SCN region (4); sensory nerve ending (4); soma membrane (4); spinal nerve (4); TRG cell (4); trigeminal neuron (4); axon collateral (3); cell membrane (3); cell membrane (3); cortical pyramidal neuron (3); corticospinal neuron (3); cortico-striatal synapse (3); dopaminergic neuron (3); dorsomedial nucleus (3); excitatory presynaptic terminal (3); GABAergic interneuron (3); ganglia network (3); Golgi apparatus (3); hub neuron (3); mDS neuron (3); monocyte (3); motoneuron (3); mouse TRG neuron (3); neogenin-expressing neuron (3); nerve terminal (3); neuronal architecture (3); neuronal cell (3); neuronal environment (3); neuronal structure (3); peripheral glia (3); presynaptic neuron (3); primary hippocampal neuron (3); pyramidal cell layer (3); retinal ganglion (3); RS axon (3); SCN cell (3); SCN circadian (3); SCN circuit (3); spinal glia (3); spinal VH neuron (3); SR interneuron (3); stat3 KO<sup>51</sup> astrocyte (3); synaptic terminal (3); thalamic nucleus (3); trigeminal ganglion (3); ventral horn neuron (3); VIP cell (3); visuomotor neuron (3); WM<sup>52</sup> network (3); A1*

<sup>35</sup> ‘suprachiasmatic nucleus’

<sup>36</sup> ‘subthalamic nucleus’

<sup>37</sup> ‘cornu ammonis region 1’

<sup>38</sup> ‘ventral horn’

<sup>39</sup> ‘longitudinal glia’

<sup>40</sup> ‘trigeminal root ganglion’

<sup>41</sup> ‘light chain’

<sup>42</sup> ‘surface glia’

<sup>43</sup> ‘medial thalamic’

<sup>44</sup> ‘neuropileglia’

<sup>45</sup> ‘cornu ammonis region 3’

<sup>46</sup> ‘lateral geniculate nucleus’

<sup>47</sup> ‘auditory cortex’

<sup>48</sup> ‘granule cell layer’

<sup>49</sup> ‘periaqueductal gray (matter)’

<sup>50</sup> ‘central nervous system’

<sup>51</sup> ‘knock-out’

<sup>52</sup> ‘white matter’

cell (2); anterior ventromedial nucleus (2); AVP neuron (2); axonal fiber (2); B3 neuron (2); B6 neuron (2); basilar membrane (2); basolateral nucleus (2); BDNF<sup>53</sup>-expressing neuron (2); bilateral caudate gray matter (2); brainstem neuron (2); brainstem RS neuron (2); CA3 neuron (2); cerebellar granule cell (2); control neuron (2); cortical grey matter (2); cortical\_basal ganglion (2); dopamine neuron (2); DRG<sup>54</sup> neuron (2); extra\_synaptic site (2); GABAergic neuron (2); ganglia circuit (2); hamster SCN (2); hypoglossal motoneuron (2); hypothalamic neuron (2); I1 neuron (2); I3 neuron (2); inhibitory cell (2); inhibitory presynaptic terminal (2); inner membrane (2); inner mitochondrial membrane (2); lamina (2); layer II entorhinal cortical cell (2); layer II medial entorhinal cortical cell (2); longitudinal glia (2); Mauthner cell (2); medial neuron (2); midline glia (2); mitochondrial membrane (2); mOFCVMS synapse (2); mPFC neuron (2); Müller cell (2); NCL neuron (2); Neogenin-expressing RS neuron (2); nerve terminal ending (2); nerve tissue (2); NeuN<sup>55</sup>-positive neuron (2); neuroglia (2); neuropil (2); perforant path axon (2); post\_synaptic membrane (2); posterior ventromedial nucleus (2); post-synaptic endplate (2); prefrontal cortical neuron (2); prefrontal-basal ganglion (2); presynaptic fiber (2); primary astrocyte (2); primary sensory neuron (2); pulvinar nucleus (2); Purkinje cell (2); pyramidal cell (2); pyramidal tract neuron (2); rat primary hippocampal neuron (2); rat TRG neuron (2); relay neuron (2); Repo-expressing NG (2); Repo-expressing SG (2); reticulospinal neuron (2); Schaffer collateral synapse (2); SCN clock neuron (2); segmental nerve (2); sensory nerve (2); spinal neuron (2); surface glia (2); synaptic architecture (2); synaptic vesicular membrane (2); thalamo\_cortical synapse (2); TRG primary sensory neuron (2); trigeminal nucleus caudalis (2); ventral nerve cord (2); ventral nucleus (2); ventromedial nucleus (2); vesicle cluster (2); AAF<sup>56</sup> cell; abstract microglia; AC synapse; ameoboid microglial cell; amygdala-projecting thalamic neuron; AP granule; apical dendrite; apoptotic neuron; a-type cell; auditory thalamus neuron; autonomic ganglion; AVP+ cell body; axon branching; axon terminal; axonal column; axospinous synapse; B cell; B1 cell; B2 cell; B3 cell; B4 cell; B5 cell; B6 Müller cell; basal dendrite; basement membrane; BDNF-immunopositive neuron; BDNF-positive neuron; BDNF-synthesizing neuron; belt neuron; bilaterally symmetric LG; brain cortical membrane; brain neuron; brain nucleus; brown cell; CA1 cell; CA1 hippocampal neuron; CA1 interneuron; CA1 pyramidal cell axon; CA1 pyramidal soma; CA1 stratum radiatum interneuron; CA3 cell; CA3 pyramidal cell axon; CA3 pyramidal neuron; calbindin d28k-containing neuron; calbindin-immunoreactive sub\_nucleus; caudal SCN; cell populations; cell QPCR; cellular membrane; cerebellar membrane; cerebellar Purkinje cell; cerebellar Purkinje neuron; cerebral white matter; c-fos-positive neuron; chinchilla basilar membrane; cholinergic interneuron; cortex glia; cortex neuron; cortex-basal ganglion; cortical dorsal nucleus; cortical interneuron; cortical pyramidal cell; cortical white matter; cytoplasmic c-terminus; D1-expressing neuron; dendritic arborization; dendritic branching; dendritic cell; dendritic membrane; DG<sup>57</sup> interneuron; dopamine cell; dopamine-containing neuron; dorsal cell; dorsal horn neuron; dorsal raphe nucleus; dorsal root ganglion; dorsal root ganglion cell; dorsal root ganglion cell body; dorsal root ganglion neuron; dorsal striatal neuron; dorsolateral PAG; dorsolateral prefrontal node; double-membrane vesicle; endopiriform nucleus; excitatory axon; excitatory pyramidal neuron; external cortical nucleus; forebrain premotor neuron; Foxo3a immunoreactive microglia; frontal cortical neuron; GABAergic cerebellar interneuron; GABAergic striatopallidal neuron; ganglia pathway; ganglia substantia; ganglion cell; ganglion mother cell; glia sections; glial precursor cell; glioma cell; glucose-responsive neuron; granulocyte; hand spinal motoneuron; heteroneuronal synapse; hippocampal astrocyte; hippocampal CA1 cell; hippocampal CA3 cell; hippocampal granule cell; hippocampal synapse; hippocampus neuron; human cortical neuron; human cytotrophoblast cell; hypothalamic BDNF neuron; I1 cell; I3-I4 cell; inhibitory interneuron; interneuron cell body; intersegmental nerve; IOFC cell body; KO microglia; lamina II neuron; lamprey axon; lamprey neuron; lamprey spinal-projecting axon; lateral basal nucleus; lateral gray matter; lateral SCN; layer 5 pyramidal neuron; LC axon; LC cell; LC cell body; LC projection neuron; LDS neuron; LGN pathway; IOFC<sup>58</sup> cell; IOFC terminal; M2 cell; M3 cell; M4 cell; mammalian cell; mammalian cortex neuron; MaxiK channel organelle interactome; mDS-encoding neuron; medial OFC<sup>59</sup> gray matter; medial pulvinar neuron; medial-posterior SCN section; mesencephalic dopamine neuron; midline cell; monitor cell; monoaminergic neuron; mossy fiber axon; mossy fiber synapse; motor axon; motor nerve; mouse cortical neuron; mouse neuron; mouse retinal ganglion cell; mouse SCN section; mouse trigeminal neuron; mRNA-expressing RS neuron; MT<sup>60</sup>-projecting neuron; myelin structures; NB-OK-1 cell; neonatal astrocyte; nerve ending; nerve terminal arborisation; nerve terminal branch point; neuroblastoma cell; neuromelanin-containing neuron; neuron population; neuron soma; neuronal body; neuronal cell body; neuronal circuitry; neuronal connectome;

<sup>53</sup> ‘brain-derived neurotrophic factor’

<sup>54</sup> ‘dorsal root ganglion’

<sup>55</sup> ‘neuronal nuclei’

<sup>56</sup> ‘anterior auditory field’

<sup>57</sup> ‘dentate gyrus’

<sup>58</sup> ‘lateral orbitofrontal cortex’

<sup>59</sup> ‘orbitofrontal cortex’

<sup>60</sup> ‘middle temporal’

neuronal microcircuitry; neuronal pathway; neuronal precursor cell; neuronal TAF-PC12 cell; neuropile glia; nonneuronal cell; noradrenergic neuron; nuclear membrane; nucleus circadian; nucleus putamen; odor-rule neuron; OFC-VMS<sup>61</sup> synapse; outer mitochondrial membrane; PACAP<sup>62</sup> signalling TRG neuron; PACAP6-38-sensitive neuron; parahippocampal white matter; parasympathetic cardiac motoneuron; parietal neuron; PC neuron; perforant path granule cell synapse; periaqueductal gray matter; peripheral nerve myelin; peripheral neuron; peripheral terminal; perisylvian white matter; periventricular white matter; PlexinA-expressing neuron; Plm neuron; polyribosome; postsynaptic cell; postsynaptic site; postsynaptic soma; premotor neuron; pre-synaptic branching; presynaptic membrane; presynaptic nerve ending; pre-synaptic nerve terminal; presynaptic site; pre-synaptic vesicle membrane; primary motor neuron; primary rat astrocyte; pulvinar cell; rat granule cell; rat hippocampal neuron; rat lumbar motor neuron; rat primary neuron; rat spinal motoneuron; rat trigeminal neuron; rat ventral horn neuron; Repo-expressing glial cell; Repo-positive glial cell; Repo-positive NG; Repo-positive SG; retinal ganglion cell; rostral nucleus; rostral SCN; satellite cell; SC cell; Schaffer collateral axon; SCN cytoarchitecture; SCN output cell; SCN section; sensory neuron; serotonergic neuron; Sirt3 immunoreactive microglia; SN cell; spinal astrocyte; spinal cord neuron; spinal microglia; spinal-projecting axon; stria terminalis; striatal medium spiny neuron; striatal neuron; striatal spiny projection neuron; striatal synapse; striatal terminal; sub\_nucleus; substantia gelatinosa neuron; synapse endplate; synaptic networks; synaptic population; synaptic structure; synaptic vesicle; terminal body; terminal ending; thalamic neuron; thalamic reticular nucleus; thalamorecipient lamina; thalamo-striatal synapse; trigeminal ganglia neuron; trigeminal primary neuron; trigeminal primary sensory neuron; trigeminal sensory neuron; TRPV1-positive pyramidal neuron; VI projection neuron; vagal nerve; ventral SCN; ventral striatal neuron; ventral tegmental area dopamine neuron; ventrolateral PAG; VGAT<sup>63</sup>-positive synapse; VGAT-positive terminal; VGLUT1<sup>64</sup>-positive synapse; VIP neuron; visual cortex neuron; visual cortical neuron; visual neuron; von Economo projection neuron; white matter astrocyte; white matter circuitry; WM microstructure

**Supplementary Table C:** Neurocytological terms (referring to entities) in the professional brain research corpus and the popular brain research corpus.

## Brain in an active semantic role

Popular brain research corpus
<b>Agent</b>
work (42); use (26); make sb./sth. ATTRIBUTE (20); respond (17); adapt (15); act (9); change <sup>65</sup> (9); operate (9); start (9); perform (7); rewire (6); try (6); deal with (5); wire (5); adjust (4); alter (4); enable (4); react (4); regulate (4); accomplish (3); cause (3); develop <sup>66</sup> (3); exert CONTROL (3); keep ('continue') (3); make sb. do sth. ('cause') (3); retain (3); spend TIME (3); achieve (2); activate (2); add (2); allow (2); apply (2); close (2); compensate (2); consume (2); deliver (2); devote RESOURCE (2); emit (2); employ (2); give rise to (2); go beyond (2); handle (2); hardwire self to (2); interfere (2); maintain (2); manage (2); mess up (2); minimis/ze (2); move (2); reassign (2); restructure (2); shut down (2); stop (2); strengthen (2); struggle (2); suppress (2); accommodate; acquire; adopt; allocate; approach; assemble; assign; balk; behave; blink; bootstrap; bring about; burn; buzz; carry out; catch up; cater for; compel sb. to do sth.; consolidate; contend; crank away; cut ('limit'); cut out; deconstruct; dedicate RESOURCE; drive; engage in; enter; execute; exploit; extend TIME; facilitate; fire movement; form ('create'); generate; get at; give chance to; give sb. sth.; go ('switch'); go its way; go on holiday; go to the effort; increase; induce; initiate; invest RESOURCE; keep ('cause'); latch onto; lead to ('cause'); leave sth. ATTRIBUTE; let sb. down; limit; link; magnify; make ('create'); make effort; manifest ('create'); march sb. through sth.; meet; mess about with; mill about; move on to; pre-empt; progress; prune away; put to a stop; reach out into; reinforce; relate; render sth./sb. ATTRIBUTE; reshape; resolve PROBLEM; rotate; run show; see ('visit'); shape; shift; shift gears; shore up; shuffle around; slow; specialize; speed up; stand; step in; string together; surrender; take action; take advantage; take over; throw away; thwart; tone down; treat; turn down volume; wake; wander
<b>Active experiencer</b>
create CONCEPT/EMOTION (31); predict (31); process INFO/CONCEPT (18); make INFO/CONCEPT (e.g. assumption. prediction) (13); reorganize (13); represent INFO/CONCEPT ('create internal representations') (13); construct INFO/CONCEPT (9); determine (9); issue prediction (8); simulate (8); control (7); make MEANING ('interpret') (7); interpret (5); make ('create') INFO/CONCEPT (5); categorize (4); choose (4); combine INFO/CONCEPT (4);

<sup>61</sup> 'orbitofrontal cortex and ventromedial striatum'

<sup>62</sup> 'pituitary adenylate cyclase-activating polypeptide'

<sup>63</sup> 'vesicular GABA transporter'

<sup>64</sup> 'vesicular glutamate transporter'

<sup>65</sup> Non-intentional, mostly intransitive, distinguished from intentional usage of the verb.

<sup>66</sup> See comment on *change*.

<i>compute (4); conclude (4); decide (4); form INFO/CONCEPT (4); store INFO/CONCEPT (4); build up INFO/CONCEPT (3); capture ('take in. comprehend') (3); convert INFO/CONCEPT (3); fill in INFO/CONCEPT (3); filter (3); ignore (3); launch prediction (3); pick (3); send INFO/CONCEPT (3); send out INFO/CONCEPT (3); solve CONFLICT/RIDDLE (3); sort out INFO/CONCEPT (3); take (into) account/stock (3); compare (2); downplay (2); keep track of (2); mispredict (2); model INFO/CONCEPT (2); prepare (2); prioritise/ze (2); provide INFO/CONCEPT (2); reconcile DIFFERENCE (2); record (2); remodel (2); run INFO/CONCEPT (e.g. (mental) experiment. simulation) (2); sample INFO/CONCEPT (2); serve up ('create') (2); take in INFO/CONCEPT (2); track (2); tune in (2); attend to; calculate; calibrate; cast about for; come up with INFO/CONCEPT; compress INFO/CONCEPT; conspire against; correct; define INFO/CONCEPT; differentiate; discard INFO/CONCEPT; discriminate; draw INFO/CONCEPT; edit INFO/CONCEPT; encode INFO/CONCEPT; establish INFO/CONCEPT; extend INFO/CONCEPT; fabricate INFO/CONCEPT; figure out ('find out'); follow RULE; fuse INFO/CONCEPT; gather INFO/CONCEPT; give MEANING to ('interpret'); group together INFO/CONCEPT; hold back INFO/CONCEPT; hold self together; hone; impose MEANING on ('interpret'); infer; invent; keep a lid on sth. ('suppress'); knit together INFO/CONCEPT; manufacture INFO/CONCEPT; misestimate; pay attention to; pick up on; piece together INFO/CONCEPT; present INFO/CONCEPT; preserve INFO/CONCEPT; produce ('create') INFO/CONCEPT; put together INFO/CONCEPT; rationalise; read; reassess; reconstruct INFO/CONCEPT; recover; re-create INFO/CONCEPT; refine INFO/CONCEPT; render INFO/CONCEPT; resolve INFO/CONCEPT into; scramble INFO/CONCEPT; search for; seek; separate INFO/CONCEPT; serve up INFO/CONCEPT; soak up INFO/CONCEPT; sort INFO/CONCEPT; substitute INFO/CONCEPT; synchronise; take seriously; teach self; test INFO/CONCEPT; think; transfer INFO/CONCEPT; tune out ; turn to INFO/CONCEPT</i>
<b>Sayer</b>
<i>show (8); explain (3); tell (3); display (2); say (2); chatter away; command; convince; demonstrate; give permission to; indicate; interact; interrogate; issue order; name; speak; specify; take the stand; thank</i>
<b>Passive experiencer</b>
<i>learn (24); recognize (12); know (9); perceive (7); register (6); think ('believe') (6); expect (5); want (5); assume (4); believe (4); like (4); remember (4); anticipate (3); care about (3); detect (3); find (3); associate (2); experience (2); favour (2); find sth. ATTRIBUTE<sup>67</sup> (2); get INFO/CONCEPT (2); understand (2); approve; comprehend; crave; doubt; enjoy; estimate; feel; figure ('believe'); forget; get sth. mixed up; guess; prefer; see; see sth. ATTRIBUTE; unlearn</i>
<b>Professional brain research corpus</b>
<b>Agent</b>
<i>produce (3); use (3); adapt (2); engage in (2); bridge; combat; contribute; convert; create; employ; facilitate; modify; refine; respond; restrict; solve</i>
<b>Active experiencer</b>
<i>control (3); assemble INFO/CONCEPT; compare; impose CONCEPT/INFO on; make choice; represent INFO/CONCEPT ('create internal representations')</i>
<b>Sayer</b>
<i>interact (2); show</i>

**Supplementary Table D:** Verbs assigning an active role (plus the passive experiencer role) to *brain* in the subject position in the professional brain research corpus and the popular brain research corpus.

<b>Popular brain research corpus</b>
<b>Locative prepositions</b>
<i>in (697); into (70); on (68); from (43); within (34); throughout (29); through (18); inside (13); across (10); over (8); out of (7); at (5); outside (5); around (3); up to (3); outside of (2); nearest; on to; onto; via</i>
<b>Non-locative prepositions</b>
<i>of (963); to (136); for (64); by (61); about (45); with (45); between (30); like (7); beyond (6); including (6); without (5); in terms of (4); as ADJ as (2); despite (2); due to (2); after; against; among; apart from; as; before; in comparison with; in relation to; instead of; other than; such; such as; unlike</i>
<b>Professional brain research corpus</b>
<b>Locative prepositions</b>
<i>in (203); from (15); on (10); throughout (6); across (2); into (2); through (2); inside; onto</i>
<b>Non-locative prepositions</b>
<i>of (118); between (15); to (11); by (7); for (6); within (6); with (3); per (2); including; like</i>

**Supplementary Table E:** Locative and non-locative prepositions occurring together with *brain* in the professional brain research corpus and the popular brain research corpus.

<sup>67</sup> E.g. *the human brain inherently finds certain features attractive.*



