

Supplementary Information:

Study	Database	Search Query
Concentration	PubMed	((Magnetic Resonance Spectroscopy [mh] OR “Magnetic Resonance Spectroscopy” OR MRS OR MRSI OR “ ¹ H-MRS” OR “In Vivo NMR” OR “In-Vivo NMR” OR “MR Spectroscopy” OR “MR Spectroscopy”) AND (Brain [mh] OR Neurosciences [mh] OR Neurology [mh] OR Neuroscience OR Neurosciences OR Brain OR Midbrain OR Neurology OR Cognition OR Cortical OR Hippocampus OR “Frontal Lobe” OR “Parietal Lobe” OR “Occipital Lobe” OR “Temporal Lobe” OR Amygdala OR Cortex OR Cerebellum OR Cerebrum OR “Brain Stem”) AND (Humans [mh] OR Human OR Humans) AND (Proton OR Protons OR ¹ H OR “Hydrogen Nucleus” OR “ ¹ H-MRS” OR “ ¹ H MRS”) NOT (Review))
Concentration	Web of Science	ALL=((“Magnetic Resonance Spectroscopy” OR MRS OR MRSI OR “ ¹ H-MRS” OR “In Vivo NMR” OR “In-Vivo NMR” OR “MR Spectroscopy” OR “mrspectroscopy”) AND (Neuroscience OR Neurosciences OR Brain OR Midbrain OR Neurology OR Neuroradiology OR Cognition OR Cortical OR Hippocampus OR “Frontal Lobe” OR “Parietal Lobe” OR “Occipital Lobe” OR “Temporal Lobe” OR Amygdala OR Cortex OR Cerebellum OR Cerebrum OR “Brain Stem”) AND (Human OR Humans) AND (Proton OR Protons OR ¹ H OR “Hydrogen Nucleus” OR “ ¹ H-MRS” OR “ ¹ H MRS”) NOT (Review))
Concentration	Scopus	((“magnetic resonance spectroscopy” OR “mrs” OR “ ¹ H-mrs” OR “mrsi” OR “NMR Spectroscopy”) AND (“human”) AND (“ ¹ H” OR “proton” OR “ ¹ H-mrs” OR “hydrogen nucleus”) AND (“neuroscience” OR “brain”) AND (“concentration”) AND NOT (“rat” OR “mouse” OR “mice” OR “rodent” OR “Animal” OR “Dog” OR “ex vivo” OR “ex-vivo” OR “vitro” OR “ ¹³ C” OR “ ³¹ P” OR “ ²³ Na” OR “ ¹⁷ O” OR “Systematic Review”)))
Relaxation	PubMed	(“T ₂ Relaxation” OR “Transverse Relaxation” OR “Spin-spin Relaxation” OR “Carr-Purcell Meiboom-Gill”) AND (“Magnetic Resonance Spectroscopy” [mh] OR “NMR Spectroscopy” OR “Magnetic Resonance Spectroscopy” OR “In-Vivo Spectroscopy” OR “Ex-Vivo Spectroscopy”) AND (Brain [mh] OR Neurosciences [mh] OR Neurology [mh] OR “Brain” OR “Neuroscience” OR “Neurology” OR “Phantom”) NOT (“Fingerprinting” OR “CEST” OR “Chemical Exchange Saturation Transfer” OR “ ³¹ P” OR “(31)P” OR “ ¹³ C” OR “(13)C” OR “ ²³ Na” OR “(23)Na” OR “ ¹⁷ O” OR “ ¹⁵ N” OR “ ¹⁴ N” OR “ ¹⁹ F” OR “(19)F” OR “Systematic Review” OR “Food Storage” [mh])
Relaxation	Web of Science	ALL=((“NMR Spectroscopy” OR “Magnetic Resonance Spectroscopy” OR “In-Vivo Spectroscopy” OR “Ex-Vivo Spectroscopy”) AND (Neuroscience OR Neurosciences OR Brain

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		OR Neurology OR Phantom) AND (“T ₂ Relaxation” OR “Transverse Relaxation” OR “Spin-spin Relaxation” OR “Carr-Purcell Meiboom-Gill”) NOT (“Fingerprinting” OR “CEST” OR “Chemical Exchange Saturation Transfer” OR “ ³¹ P” OR “(³¹)P” OR “ ¹³ C” OR “(¹³)C” OR “ ²³ Na” OR “(²³)Na” OR “ ¹⁷ O” OR “ ¹⁵ N” OR “ ¹⁴ N” OR “ ¹⁹ F” OR “(¹⁹)F” OR “Systematic Review” OR “Food Storage”))
Relaxation	Scopus	((“magnetic resonance spectroscopy” OR “mrs” OR “ ¹ H-mrs” OR “mrsi” OR “NMR Spectroscopy”) AND (“human”) AND (“ ¹ H” OR “proton” OR “ ¹ H-mrs” OR “hydrogen nucleus”) AND (“neuroscience” OR “brain”) AND (“T ₂ Relaxation” OR “Transverse Relaxation” OR “Spin-spin Relaxation” OR “Carr-Purcell Meiboom-Gill”) AND NOT (“ ¹³ C” OR “ ³¹ P” OR “ ²³ Na” OR “ ¹⁷ O” OR “Systematic Review”)))

Supplementary Table 1. Search queries used for each of the databases (PubMed, Web of Science, Scopus) for the Concentration and Relaxation studies.

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