

## Systematic searches in PubMed and PsycINFO

### Search profile PubMed

	<b>Cognition</b>	<b>Mood disorders</b>	<b>Neuroimaging</b>
<b>MeSH terms</b>	"Nootropic Agents"[Mesh] OR "Cognition Disorders"[Mesh:noexp] OR "Cognitive Dysfunction"[Mesh] OR "Cognition"[Mesh:noexp] OR "Memory"[Mesh] OR "Problem Solving"[Mesh] OR "Spatial Learning"[Mesh] OR "Verbal Learning"[Mesh] OR "Executive Function"[Mesh] OR "Attention"[Mesh]	"Bipolar and Related Disorders"[Mesh] OR "Mood Disorders"[Mesh]	"Magnetic Resonance Imaging"[Mesh]) OR "Functional Neuroimaging"[Mesh]
<b>Text Word</b>	cogniti*[Text word] OR procogniti*[Text word]	depressi*[Text word] OR bipolar[Text word] OR "mood disorder*[Text word] OR "affective disorder**"	"magnetic resonance imaging"[Text word] OR fmri[Text word] OR mri[Text word]

### Search protocol PubMed

Database	Search strings	Hits
<b>PubMed</b> October 31 <sup>st</sup> 2017	<b>#1</b> ("Nootropic Agents"[Mesh] OR "Cognition Disorders"[Mesh:noexp] OR "Cognitive Dysfunction"[Mesh] OR "Cognition"[Mesh:noexp] OR "Memory"[Mesh] OR "Problem Solving"[Mesh] OR "Spatial Learning"[Mesh] OR "Verbal Learning"[Mesh] OR "Executive Function"[Mesh] OR "Attention"[Mesh])	316984
	<b>#2</b> ("Bipolar and Related Disorders"[Mesh] OR "Mood Disorders"[Mesh])	133830
	<b>#3</b> ("Magnetic Resonance Imaging"[Mesh]) OR "Functional Neuroimaging"[Mesh])	424075
	<b># 4 Combined MeSH search:</b> (((("Nootropic Agents"[Mesh] OR "Cognition Disorders"[Mesh:noexp] OR "Cognitive Dysfunction"[Mesh] OR "Cognition"[Mesh:noexp] OR "Memory"[Mesh] OR "Problem Solving"[Mesh] OR "Spatial Learning"[Mesh] OR "Verbal Learning"[Mesh] OR "Executive Function"[Mesh] OR "Attention"[Mesh]))) AND (("Bipolar and Related Disorders"[Mesh] OR "Mood Disorders"[Mesh]))) AND ("Magnetic Resonance Imaging"[Mesh] OR "Functional Neuroimaging"[Mesh])	776
	<b>#5</b> (cogniti*[Text word] OR procogniti*[Text word])	355127

	<p><b>#6</b> (depressi*[Text word] OR bipolar[Text word] OR "mood disorder*" [Text word] OR "affective disorder*")</p> <p><b>#7</b> ("magnetic resonance imaging"[Text word] OR fmri[Text word] OR mri[Text word])</p> <p><b>Combined Text Word search:</b> (((cogniti*[Text word] OR procogniti*[Text word]))) AND (depressi*[Text word] OR bipolar[Text word] OR "mood disorder*" [Text word] OR "affective disorder*" [Text word])) AND ("magnetic resonance imaging"[Text word] OR fmri[Text word] OR mri[Text word]) NOT medline[sb]</p> <p><b>Final search (combined MeSH and Text Word search):</b>  ((((("Nootropic Agents"[Mesh] OR "Cognition Disorders"[Mesh:noexp] OR "Cognitive Dysfunction"[Mesh] OR "Cognition"[Mesh:noexp] OR "Memory"[Mesh] OR "Problem Solving"[Mesh] OR "Spatial Learning"[Mesh] OR "Verbal Learning"[Mesh] OR "Executive Function"[Mesh] OR "Attention"[Mesh]))) AND (("Bipolar and Related Disorders"[Mesh] OR "Mood Disorders"[Mesh]))) AND ("Magnetic Resonance Imaging"[Mesh] OR "Functional Neuroimaging"[Mesh])) OR (((((cogniti*[Text word] OR procogniti*[Text word]))) AND (depressi*[Text word] OR bipolar[Text word] OR "mood disorder*" [Text word] OR "affective disorder*")) AND ("magnetic resonance imaging"[Text word] OR fmri[Text word] OR mri[Text word]) NOT medline[sb])</p> <p><b>Filters</b> English</p>	<p>443752</p> <p>477622</p> <p>365</p> <p>1141</p> <p>1098</p>
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### Search profile PsycINFO

	<b>Cognition</b>	<b>Mood disorders</b>	<b>Neuroimaging</b>
<b>DE Subjects [exact]</b>	DE "Cognition" OR DE "Cognitive Ability" OR DE "Cognitive Processes" OR DE "Cognitive Assessment" OR DE "Memory and Learning Measures" OR DE "Executive Function" OR DE "Cognitive Control" OR DE "Cognitive Impairment" OR DE "Nootropic Drugs" OR DE "Cognitive Mediation" OR DE "Memory" OR DE "Memory Training" OR DE "Attention"	DE "Affective Disorders" OR DE "Bipolar Disorder" OR DE "Major Depression" OR DE "Mania" OR DE "Depressive Disorder"	DE "Magnetic Resonance Imaging" OR DE "Diffusion Tensor Imaging" OR DE "Functional Magnetic Resonance Imaging"
<b>KW Keywords</b>	cogniti* OR memory OR attention OR "executive function*"	"Bipolar disorder" OR "affective disorder*" OR "major depressi*" OR "treatment resistant depression"	MRI OR fMRI OR "magnetic resonance imaging"

### Search protocol PsycINFO

<b>Database</b>	<b>Search strings</b>	<b>Hits</b>
<b>PsycINFO</b> October 31 <sup>st</sup> 2017	<b>#1</b> DE "Cognition" OR DE "Cognitive Ability" OR DE "Cognitive Processes" OR DE "Cognitive Assessment" OR DE "Memory and Learning Measures" OR DE "Executive Function" OR DE "Cognitive Control" OR DE "Cognitive Impairment" OR DE "Nootropic Drugs" OR DE "Cognitive Mediation" OR DE "Memory" OR DE "Memory Training" OR DE "Attention"	323,440
	<b>#2</b> DE "Affective Disorders" OR DE "Bipolar Disorder" OR DE "Major Depression" OR DE "Mania" OR DE "Depressive Disorder"	156,797
	<b>#3</b> DE "Magnetic Resonance Imaging" OR DE "Diffusion Tensor Imaging" OR DE "Functional Magnetic Resonance Imaging"	64,645
	<b>#4 Combined Subject search:</b> ( DE "Cognition" OR DE "Cognitive Ability" OR DE "Cognitive Processes" OR DE "Cognitive Assessment" OR DE "Memory and Learning Measures" OR DE "Executive Function" OR DE "Cognitive Control" OR DE "Cognitive Impairment" OR DE "Nootropic Drugs" OR DE "Cognitive Mediation" OR DE "Memory" OR DE "Memory Training" OR DE "Attention" ) AND ( DE "Affective Disorders" OR DE "Bipolar Disorder" OR DE "Major Depression" OR DE "Mania" OR DE "Depressive Disorder" ) AND ( DE "Magnetic Resonance Imaging" OR DE "Diffusion Tensor Imaging" OR DE "Functional Magnetic Resonance Imaging" )	576

	<p><b>#5 Keyword search:</b> KW ( cogniti* OR memory OR "executive function*" ) AND KW ( "Bipolar disorder" OR "affective disorder*" OR "major depressi*" OR "depressive disorder" OR "treatment resistant depression" ) AND KW ( MRI OR fMRI OR "magnetic resonance imaging" )</p> <p><b>#6 Combined Subject and Keyword search:</b> ( ( DE "Cognition" OR DE "Cognitive Ability" OR DE "Cognitive Processes" OR DE "Cognitive Assessment" OR DE "Memory and Learning Measures" OR DE "Executive Function" OR DE "Cognitive Control" OR DE "Cognitive Impairment" OR DE "Nootropic Drugs" OR DE "Cognitive Mediation" OR DE "Memory" OR DE "Memory Training" OR DE "Attention" ) AND ( DE "Affective Disorders" OR DE "Bipolar Disorder" OR DE "Major Depression" OR DE "Mania" OR DE "Depressive Disorder" ) AND ( DE "Magnetic Resonance Imaging" OR DE "Diffusion Tensor Imaging" OR DE "Functional Magnetic Resonance Imaging" ) ) OR ( KW ( cogniti* OR memory OR "executive function*" ) AND KW ( "Bipolar disorder" OR "affective disorder*" OR "major depressi*" OR "depressive disorder" OR "treatment resistant depression" ) AND KW ( MRI OR fMRI OR "magnetic resonance imaging" ) )</p> <p><b>Limiters</b> Language: English</p> <p><b>Search Mode in all searches</b> Boolean/Phrase</p>	<p>98</p> <p>621</p> <p>612</p>
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