## Nootropics - Smart Drugs Cheat Sheet by [deleted] via cheatography.com/8051/cs/1179/

#### Nootropics

#### Giurgea's Nootropic Criteria:

Enhances learning and memory. Enhances learned behaviors under conditions which are known to disrupt them (e.g. hypoxia (oxygen deficiency)). Protects the brain from physical or chemical injury. Enhances the tonic cortical/subcortical control mechanisms Exhibits few side effects and extremely low toxicity, while lacking the pharmacology of typical psychotropic drugs (motor stimulation, sedation, etc.).

#### What's nootropic ?:

Nootropics, also known as smart drugs, are cognitive enhancers. They improve mental functions cognition, memory, intelligence, motivation, attention, focus, concentration, alertness and more.

Read more at nextgen-human.com

#### Dictionary

Adaptogens	Natural metabolic regulators
	that increase the ability of
	organism to adapt to enviro-
	nmental factors and to avoid
	damage from such factors.
	Nontoxic substance and
	especially a plant extract that
	is held to increase the body's
	ability to resist the damaging
	effects of stress and promote
	or restore normal physio-
	logical functioning.

#### Dictionary (cont)

Neurot- ran- smitter	Chemical released by neurons to stimulate neighbouring neurons, allowing impulses to be passed from one cell to the next throughout the nervous system. A nerve impulse arriving at the axon terminal of one neuron stimulates release of a neurotransmitter, which crosses the microscopic gap (see synapse) in milliseconds to the adjoining neuron's dendrite. For example acetyl- choline, dopamine, and serotonin.
Inhabitor	An agent that slows or interferes with a chemical reaction, a substance that reduces the activity of another substance (as an enzyme), a gene that checks the normal effect of another nonallelic gene when both are present.
MAO-B inhibitor	Inhibitor of the enzyme monoamine oxidase B. MAO-B helps break down dopamine; inhibiting it prolongs the action of dopamine in the brain.
Precursor	A substance, cell, or cellular component from which another substance, cell, or cellular component is formed especially by natural processes.
Cofactor	A substance that acts with another substance to bring about certain effects.

#### Dictionary (cont)

Agonist	A chemical substance (as a drug)		
	capable of combining with a		
	receptor on a cell and initiating		
	the same reaction or activity		
	typically produced by the binding		
	of an endogenous substance.		

#### **Natural Nootropics**

Baco

Mon

ора	Bacopa also is an effective
nieri	antioxidant and has been used
	in a number of anti-aging
	formulas. The primary medical
	ingredient derived from the
	Bacopa Monnieri plant is the
	bacopasaponins alkaloid.
	Studies of this drug show that it
	can improve several different
	factors related to memory at the
	same time including memory
	formation, retention of concepts,
	and restoration. The effects of
	Bacopa as a Nootropic will be
	best experienced with long-term
	consistent usage.

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#### Natural Nootropics (cont)

Huper Has been used for its nootropic benefits for hundreds of years, it zine-A is only recently that we discovered the mechanism of action of this supplement. Huperzine-A blocks the production of acetylcholinesterase - a chemical which breaks down the neurotransmitter Acetylcholine when there is too much of it. By inhibiting certain receptors that control the amount of acetylcholinesterase produced, Huperzine-A is therefore able to indirectly affect acetylcholine levels. Higher amounts of acetylcholine lead to improved cognition and learning scores as well as better memory. Acetylcholine also plays a role in protecting brain cells from dying as well as being necessary in the formation of new brain cells.

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#### Natural Nootropics (cont)

Gingko	The ginkgo tree leaves contain
bilboa	terpenoids and flavonoid
	glycosides which act as
	monoamine oxidase inhibitors.
	Ginkgo also improves circulation
	throughout the body, protects
	organs from free radicals and
	oxidative damage to the cells and
	may be able to prevent the
	formation of blood clots. Ginkgo
	Biloba has proven effective at
	enhancing cognition in patients
	diagnosed with dimension and is
	used to boost the memory and
	concentration. While it may not
	be as strong as other nootropics,
	it is a good addition to any natural
	nootropic stack.

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#### Natural Nootropics (cont)

The	Mushroom (known by the scientific	
Lion's	name of Hericium erinaceus) is an	
Mane	edible mushroom that grows in	
	North America. Lion's Mane is	
	popular in traditional Chinese	
	medicine serving as an antioxidant	
	and helping to regulate blood lipid	
	and blood glucose levels. Pills	
	made from Lion's Mane are even	
	used to treat gastric ulcers. For	
	those interested in the nootropic	
	benefits of this mushroom, a 2009	
	study from Phytotherapy Research	
	found that taking this mushroom	
	resulted in improved cognitive	
	ability. Other studies have shown	
	that Lion's Mane increases nerve	
	growth factor secretions. NGF is a	
	protein that is vital to the growth	
	and maintenance of neurons in the	
	brain, contributing to long-term	
	brain health.	

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A)Metabolic precursors: L-

Phenylalanine, L-Tyrosine, L-

DOPA, Biopterin, Pyridoxalphosphate B)Reuptake inhibitors: Amineptine, Methyl-

#### Natural Nootropics (cont)

I

Yerba	Enhance alertness and mental
Mate	acuity without stimulant-type side
	effects, like nervousness. Yerba
	mate, appears to give your brain a
	boost without making you nervous.
	You feel alert and sharp. Interesti-
	ngly, it actually works as a tonic for
	the central nervous system,
	calming the body and the mind. It
	has also been shown to improve
	mood and concentration, reduce
	anxiety, and prevent mental
	fatigue. A typical cup contains up to
	10 times more of this stimulant than
	there is caffeine in a cup of coffee.

Source: bestnootropic.org

#### Movie Drugs (fiction)

NZT-48,	With the help of a mysterious pill
Limitless	that enables the user to access
	100 percent of his brain abilities,
	a struggling writer becomes a
	financial wizard, but it also puts
	him in a new world with lots of
	dangers.

Source: imdb.com

#### **Nootropics Types**

Racetams	piracetam, oxiracetam, phenylpiracetam, aniracetam, nefiracetam
Vitamins and	B Vitamins, Omega - 3, Isofla- vones, Vitamin D
supple-	
ments	



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Nootropics Types (cont)

Dopami-

nergics

phenidate, Bupropion C)MAO-B inhibitors: Selegiline, Rasagiline, Rhodiola rosea D)Dopamine agonists: Ropinirole, Pramipexole, Amisulpride E)Others: Mucuna pruriens (Velvet Bean), Modafinil: Citicoline Stimulants A)Amphetamines: Amphetamine (Adderall, Dexedrine), Lisdexamfetamine (Vyvanse), Methamphetamine (Desoxyn) B)Adrenergics: Atomoxetine, Reboxetine, Synephrine (found in Bitter orange) C)Cholinergics: Arecoline, Nicotine D)Eugeroics ("Wakefulness Enhancers"): Adrafinil, Armodafinil, Modafinil E)Xanthines: (reduces fatigue perception): Caffeine, Paraxanthine, Theobromine, Theophylline

#### Nootropics Types (cont)

Cholin-	A)Precursors: Choline, DMAE,
ergics	Meclofenoxate, Alpha-GPC
	B)Cofactors: Acetylcarnitine,
	Vitamin B5 C)Acetylcholinest-
	erase inhibitors: Galantamine,
	Ipidacrine (Neiromidin),
	Lycoris radiata (Red Spider
	Lily), Huperzine A, Donepezil,
	Rosemary, Sage, Celastrus
	Paniculatus, Cannabis
	D)Reuptake inhibitors and
	enhancers: Coluracetam,
	Ginsenosides Source,
	Agonists, Ispronicline,
	Nicotine, Arecoline
GABA blockers	Suritozole, A5IA
Glutamate activators	CX-717, IDRA-21, LY-503,430
cAMP	Propentofylline, Rolipram,
	Mesembrine
Seroto-	A)Precursors: 5-HTP,
nergics	Tryptophan <i>B)Cofactors</i> :
	Pyridoxal <i>C)Reuptake</i>
	inhibitors: SSRIs, Sceletium
	tortuosum, Hypericum
	perforatum D)MAO-A
	inhibitors: Resveratrol,
	Curcumin, Piperine, Harmal,
	Rhodiola rosea <i>E)Reuptake</i>
	enhancers: Tianeptine

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Nootropics Types (cont)			Nootropics Types (cont)	
Anti-s- tressBeta blockers, Lemon Balm, Passion Flower, Rhodiola Rosea, St John's Wort, Ginseng (including Siberian ginseng), Sutherlandia frutes- cens, Kava—anxiolytic herb, Tea, Theanine, Grape seed extract, Adafenoxate, Phenibut, Picamilon, Valerian, Butea frondosa, Gotu Kola, Foti, Panax ginseng, Chinese herbs such as Polygala tenuifolia, Acorus gramineus and Huperzia serrata, Bacopa monnieri, Tulsi (Ocimum		Direct hormones	Vasopressin, Pregnenolone, Orexin	
		Secondary enhancers	DHEA	
		Unknown enhanc- ement	Bacopa monniera (Brahmi), Clitoria ternatea (Shankhpu- shpi), Fipexide, Gerovital H3, Sulbutiamine, Royal Jelly, Curcumin	
		Adaptogens	Holy Basil, Tulsi, Ginseng, Rhodiola rosea, Ashwaganda (Withania somnifera), Reishi (Ganoderma lucidum)	
Blood flow, metabolic	sanctum, sweet holy basil) Blessed Thistle, Coenzyme q- 10, Creatine, Lipoic acid, Pyritinol, Picamilon, Ginkgo biloba, Vinpocetine, Vincamine, Nicergoline		Other	mexidol, hydergine, noopept, selank, semax, bifemelane. Nootropic combination of artichoke extract + forskolin or other combinations of 2 or more substances.
Experi-	<i>histamine antagonists</i> : The		Popular	
mental	H3, Ciproxifan, A-349,821, ABT-239		Тор	Noopept, Pramiracetam,
growth hi stimul- A ation, se protection S ni te	Idebenone, Melatonin, Glutat- hione, Acetylcarnitine, Inositol, Anticonvulsants, Phosphatidyl- serine, Lion's Mane Mushroom, SAM-e (S-Adenosyl methio- nine), Acetylcysteine (L-cys- teine), Uncaria tomentosa (Cat's Claw)		popular nootropics	Modafinil, Adrafinil, Sulbut- iamine, Phenylpiracetam, Aniracetam, 5-HTP, Huperzine A, Choline (as additional component)
		Most used daily nootropics	L-theanine, Caffeine, Ginseng, Gingko	

#### WWW sources

http://n	It's blog about not only nootropics
extg-	but things that can help You
en	achieve next level of human
hum-	existence (under construction).
an.com	

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#### WWW sources (cont)

https://en.wikipedia.o- rg/wiki/Nootropic	Wikipedia site about nootropics.
http://www.nootrop- ics.com/refs/index.html	Very big list of smart drugs.
http://brainmeta.com/- forum/	Forum about cognitive enhancers.
http://www.longecity.o- rg/forum/forum/169-b- rain-health/	Another forum about cognitive enhancers.

#### About this cheatsheet

This document is a summary of a number of articles from various sources about the "-Smart Drugs". I create a blog on this subject which will have much more information on nootropic drugs but not only. If you like this cheatsheet go to my website http://nextgen-human.com and leave comment : )

Read more on nextgen-human.com

Piracetam is a cognitive
enhancer and memory
enhancing supplement. Many
people across the world use
the nootropic, piracetam, to
effectively retain knowledge
and improve memory.
Piracetam is utilized by both
younger and older healthy
individuals.

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Racetams (c	ont)	Racetams (	cont)	Other sn	nart drugs (cont)
Aniracetam	An ampakine and a fat-so- luble nootropic of the racetam chemical class purported to be considerably more potent than Piracetam. Aniracetam has the potential of enhancing what is already memorized within ones mind and allows the mind to reach a state of concentration. Although Aniracetam is more potent than Piracetam, it has	Oxiracetam	Racetam and an ampakine that is promoted as a natural method of improving cognitive functions through the stimulation of ACh receptors, AMPA receptors and NDMA receptors. There have been clinical studies to suggest Oxiracetam can improve perception, memory, focus, concentration, and alertness. In some studies,	Alpha- GPC	Source of Acetylecholine and a fat-soluble nootropic of the Choline chemical class. Alpha- GPC is widely used to help and to treat Alzheimer's, to help in the recovery of victims of a Stroke, improve the memory and overall mood of people suffering from Dementia. Alpha-GPC is used as a Nootropic supplement to help improve and increase memory and cognition.
	unique functions which allow more stimulation of the Acetylcholine receptors and increased focus and energy within the human brain.	Source: sma	Oxiracetam has been shown to increase simple reaction times. artdrugsforthought.com	CDP Choline	Source of Acetylecholine and a water-soluble nootropic of the Choline chemical class. CDP Choline is widely used to help and to treat Alzheimer's and as a
Pramir- acetam	Lipid-soluble nootropic of the Racetam chemical family, and has a relatively similar chemical structure compared to its cousin Aniracetam. However, Pramiracetam is much stronger than Anirac- etam.	s r s c v	rt drugs While commonly considered a stimulant does not stimulate motor coordination like other stimulants, and is primarily a cerebral stimulant. Connected with a stimulation of Hypocretin, Adrafinil increases how alert and		Nootropic supplement to help improve and increase memory and cognition. CDP Choline has been shown to counteract neural degeneration and reduce the number of apoptotic cells present. CDP Choline also helps improve visual function in persons suffering from Glaucoma, and Amblyopia. CDP Choline is known to help increase the glucose metabolism in the brain as well as cerebral blood flow.
Phenylpir- acetam	Shown in a clinical study to have a wider and more effective range of benefits in comparison with Piracetam. Phenylpiracetam was shown to improve memory functions, problem solving skills, and attention switching. Another	awake one fe of Hypocretin increase in do nephrine, and three of these overall energy Adrafinil a ch	Adrahini increases now alert and awake one feels. A higher level of Hypocretin causes an increase in dopamine, norepi- hephrine, and histamines. All hree of these play a role in overall energy levels, making Adrafinil a choice nootropic to ake before a intense workout or		
	study showed Phenylpir- acetam had a wide range of benefits including increased locomotion skills, antidepre- ssant benefits, and memory enhancement.		ong study session.		

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Other smart drugs (cont)		Other smart drugs (cont)		
Centro- phe- noxine	Cholinergic compound that contains DMAE, and is lipid soluble. Centrophenoxine increases the uptake of oxygen and glucose uptake in the brain. Through the increase of glucose uptake, Centrophe- noxine helps in rectifying the damage done to the brain from aging. The brain uses 20 percent of the body's oxygen, if the oxygen levels become deficient the brain loses effici- ency. By increasing the flow of oxygen to the brain Centrophe- noxine helps increase the productiveness of the brain all around.	Sulbut iamine	Fat-soluble nootropic, that passes the Blood Brain Barrier more readily than Thiamine. Sulbut- iamine is known to be cholinergic, glutamatergic and dopaminergic. The potentiation of glutamatergic activity in the Prefrontal Cortex is believed to be one of the Mechanisms of Action that grants Sulbutiamine the ability to increase memory functionality. Sulbutiamine is shown to cause ar increase in cholinergic activities in the Hippocampus, this area of the brain plays a pivotal role in the consolidation of both short and long term memory as well as spatial navigation and memory.	
L- Theanine	Not just improve scores on tests of learning and memory, it also affects many other variables. L- Theanine has been shown to lower blood pressure, and anxiety. It has also been shown to aid in the improvment of the body's immune system by increasing the amount of affliction fighting gamma delta T-Cells, and increasing antiba- cterial proteins.		Another plausible cause of Sulbut iamine improving cognition and memory is through the suppre- ssion and reduction of dopamine released in the Prefrontal Cortex. These various Mechanisms of Action make Sulbutiamine an understandable choice in improving cognitive and memory abilities.	

#### Other smart drugs (cont)

Noopept Recent nootropic that was first patented in Russia in 1995. Noopept has been shown to have neuro-protective qualities through the stimulation of a protein known as Nerve Growth Hormones (NGH) which plays an active role in reducing and even preventing neuronal degeneration in the hippocampus. The effective dose range of Noopept in comparison to Piracetam was 1000 times lower and also that spectrum of mneumotropic activity was greater in regards to Noopept. This showed that the dipeptide Noopept was much stronger than Piracetam.

Source: smartdÂrugÂsfoÂrthÂougÂht.com

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