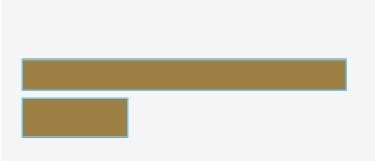
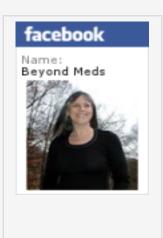




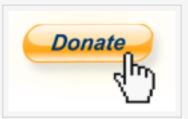
W Follow Beyond Meds





			-





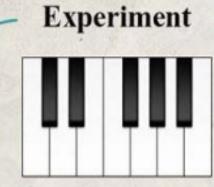
Beyond Medication: Mental Health, Holistic Healing & Nutrition

A 2-part ecourse exploring the latest, most up to date research & knowledge about food, natural healing and mental health.*

Living Proof

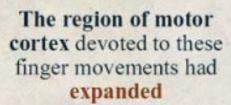


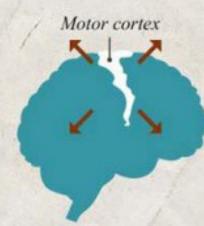
Practice piano exercise for 2 hours each day for 1 week



B

Imagined practicing the piano exercise, holding hands still





The region of motor cortex devoted to these finger movements had also expanded



Hypothesis

"Mental training has the power to change the physical structure of the brain."

Alvaro Pascual-Leone, M.D. PhD. Professor of Neurology, Harvard Medical School

Compared with the average brain:



A London Cab Driver typically has a larger hippocampus & stores a detailed mental map of the city



Musicians
typically have 130%
more grey matter in
the auditory cortex

Living Proof

The brain is a muscle that grows with exercise.

One day, we could create educational systems that are perfectly suited to the adaptability of the brain.



Faster processing



Improved memory



Language skills



Creativity



Problem solving

MINDFULNESS

Mindfulness – becoming consciously aware of our thoughts and decisions, observing our inner experiences as if they were happening to someone else.



"Mindfulness and meditation are essential for helping

Tweets





Monica Cassani @BeyondMeds 2

It involves the body and the mind and the spirit. It is a profoundly holistic journey in which everything we do matters.

Expand



Monica Cassani
@BeyondMeds

2h

It's a rather astonishing and all to often not discovered process. It is something virtually never discussed in mainstream psychology.

Expand



Monica Cassani @BeyondMeds

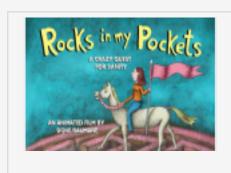
2h

We can individuate like what Jung

Tweet to @BeyondMeds





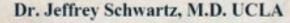


the brain to create new pathways."

David Smith, M.D. co-author of Unchain Your Brain

Study:

"My brain is generating another obsessive thought. Don't I know it is just some garbage thrown up by a faulty circuit?" After 10 weeks of mindfulness-based therapy 12 /18 OCD patients improved significantly





Mindfulness-Based Relapse Prevention (MBRP)

Mindfulness here is intended to increase discriminative awareness, with a specific focus on acceptance of uncomfortable states or challenging situations without reacting automatically.

Trial:

MBRP group demonstrated significantly lower rates of substance use and greater decreases in craving following treatment compared to control group.

Hypothesis:

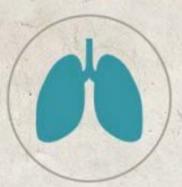
"MBRP may affect numerous brain systems and may reverse, repair, or compensate for the neuroadaptive changes associated with addiction and addictive-behavior relapse."

K Witkiewitz Ph.D, S Bowen Ph.D, MK Lustyk Ph.D

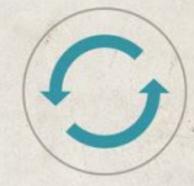
Try it out

Count to Ten

It may sound simple, but this exercise can be very powerful and you can do it anytime, anywhere and it helps restore your mind to clarity and peace in the present moment.



Focus all your attention on your breathing and count to ten



Don't let your mind wander, if it does – start again!

1 2 3... I need to check my emails

1 2 3 4 5 6 ... where did I put my keys?

1 2 3 4 5 6 7 8 9 10

The Pursuit of Happiness

Experiment: Buddhist Monks vs. Students

Monks can spend more than 10,000 hours of their lives in meditation.



Generate feelings of compassion through meditation



Left
prefrontal cortex prefr

Right prefrontal cortex









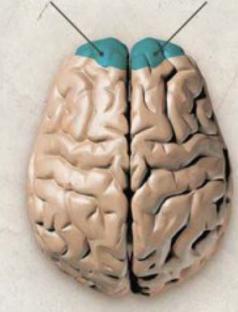




BEYOND MEDS

Activity in left prefrontal cortex was able to swamp activity in right prefrontal cortex.

Monks



negative moods

happiness

No difference

Students

between left and right prefrontal cortex.

Hypothesis:

"Emotions, moods and states are trainable mental skills"

Dr Richard J. Davidson, University of Wisconsin-Madison

CONCLUSIONS

The power of brain training means that the brain can not only learn new tricks, it can actually restructure itself, even in old age.

Neuroplasticity promises remarkable new therapies for mental illness and addiction.

From Buddhist monks to London taxi drivers, whether trying to overcome addiction or learn a new language, we can all harness the power of neuroplasticity and rewire our brains.

Sources

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Dopamine D2 receptors - nature.com For a Better Brain, Learn Another Language - theatlantic.com

Musicians have 'more grey matter' - news.bbc.co.uk

Neuroscientists: Shroom-induced brain rewiring could hold the key to fighting mental illness - rawstory.com

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Taxi drivers' brains 'grow' on the job - news.bbc.co.uk The Brain: How The Brain Rewires Itself - content.time.com

The Power of Habit and How to Rewire Our "Habit Loops" - brainpickings.org
Understanding Addiction - helpguide.org

What Is a Synapse? - psychology.about.com

Basic Neurochemistry: Molecular, Cellular and Medical Aspects. Clark, DD; Sokoloff L. Siegel GJ, Agranoff BW, Albers RW, Fisher SK, Uhler MD, ed. Unchain Your Brain: 10 Steps to Breaking the Addictions That Steal Your Life Daniel G. Amen, M.D. David E. Smith, MD

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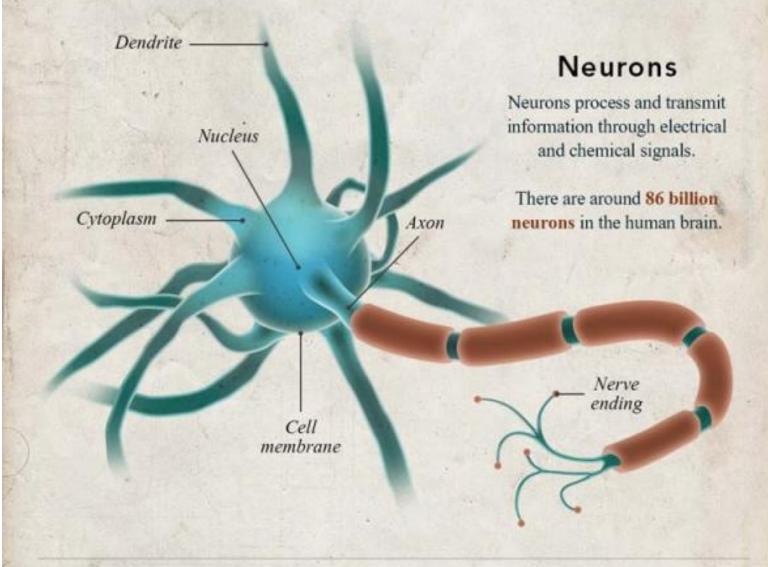


Teaching an Old Dog New Tricks

Previously, scientists thought that the brain's structure was hard-wired and immutable. Brain-damaged patients rarely made full recoveries and the living brain's microscopic activities were unobservable. The widely held belief was that the brain was a machine: machines are capable of many things, but they do not change and grow.



New research has taught us that the brain is actually plastic, it is able to change based on experiences. Even in old age, the adult brain retains neuroplasticity and is able to change its structure and function. It turns out you can teach an old dog new tricks!



Synapses

Synapses are the small gaps between neurons. They allow information to pass from one neuron to the next.



Birth Approx. 2,500 synapses

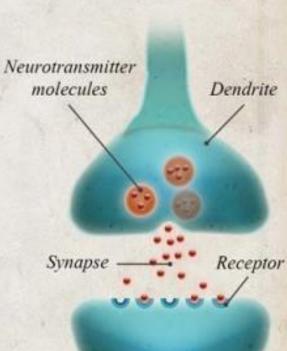
Infant brain: large capacity for growth

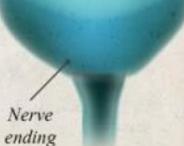


3 yrs old Approx. 15,000 synapses



Adult Brain
Use it or lose it: 50% of neurons do not survive into adulthood as rarely used synapses are eliminated throughout adolescence.

















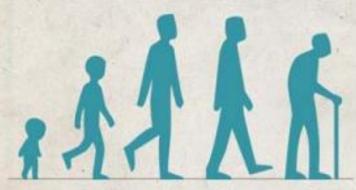


Neurogenesis

The production of neurons, beginning week 3 of human development at a rate of 250,000/minute until birth.

Previous thought...

Neurons cannot reproduce after the first few years of life



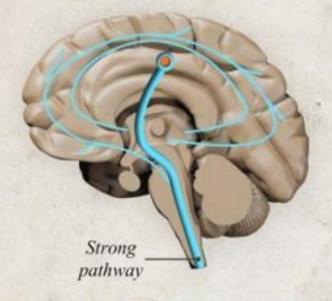
New research: neurogenesis may continue to occur throughout human life span. In 1999, researchers at the Salk Institute, San Diego discovered neurogenesis occurring in the brain of a 72-year-old adult!



The Future: there is growing hope that science will discover an effective way to guide the process of neuronal growth to repair areas of the brain that are damaged by injury or disease.

Pathways

Neural pathways connect relatively distant areas of the brain or nervous system, each pathway is associated with a particular action or behavior.

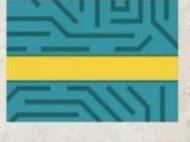


Every time we think, feel or do something, we strengthen this pathway. Habits are well travelled pathways – our brain finds these things easy to do.

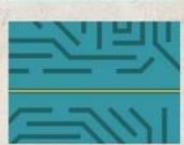
Neuroplasticity



New thoughts and skills carve out new pathways.



Repetition and practice strengthen these pathways, forming new habits.



Old pathways get used less and weaken.

With repeated and direct attention towards a desired change, we all have the ability to rewire our brains.

Pleasure & Reward

The Mesolimbic Dopamine System

The brain's reward pathway encourages us to seek out activities essential to species survival.



The reward pathway is activated, the brain floods with dopamine.

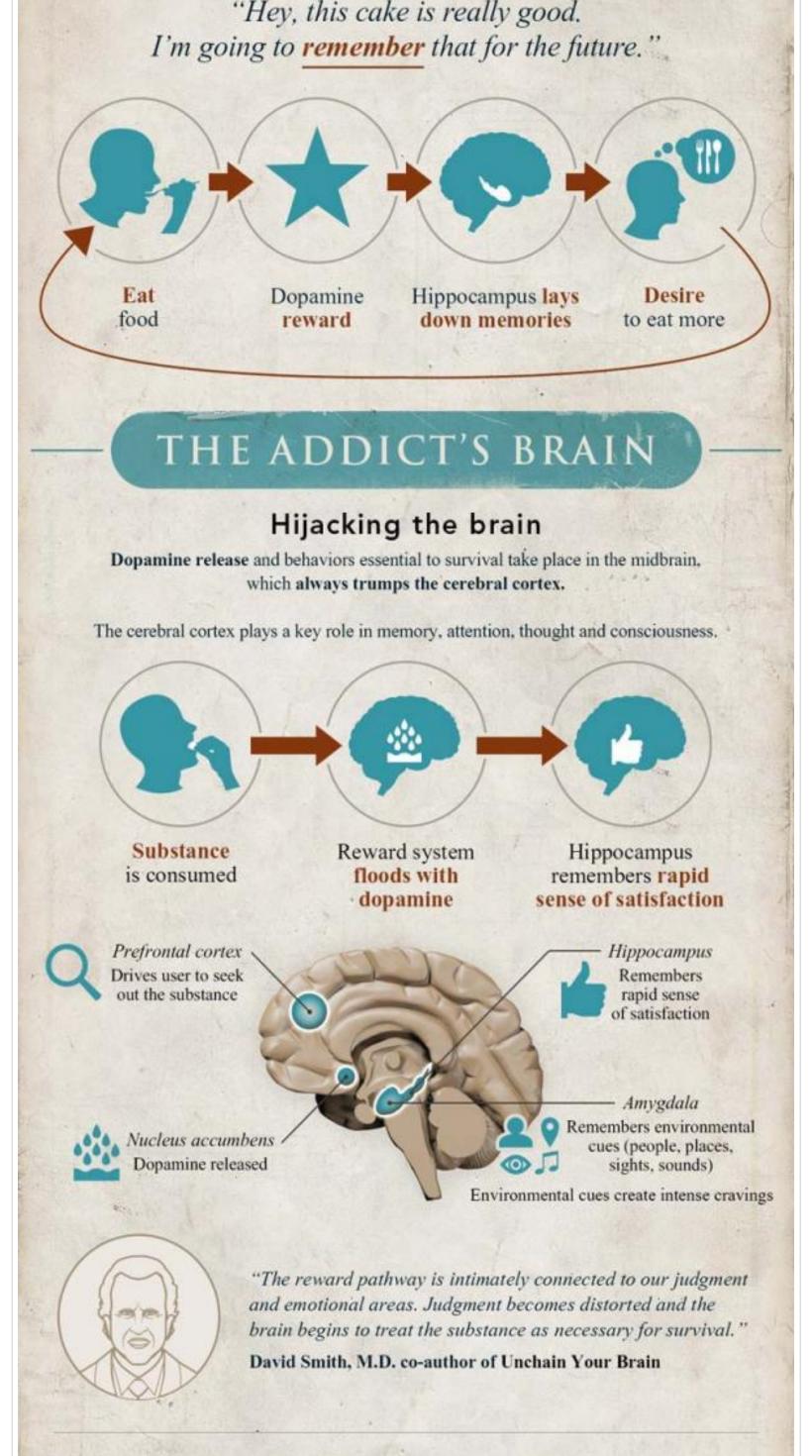
We feel good, we seek to repeat the activity.



BLOG WITH INTEGRITY



GREENMEDINFO.COM
WHERE THE EVIDENCE IS SPROUTING UP!



The Addict's Brain

What makes a substance / behavior addictive?





Speed of dopamine release



Intensity of dopamine release



Reliability of dopamine release

Addictive drugs can release 2 to 10 times the amount of dopamine that natural rewards do and they do it more quickly and more reliably.

Developing Tolerance



Repeated overstimulation

Number of dopamine receptors reduced

Original dosage gives less reward

Dosage has to be increased to achieve original high

Eventually, high doses are required just to stave off withdrawal

HABITS & TRIGGERS



"Habits play an important role in our health. Understanding the biology of how we develop routines that may be harmful to us, and how to break those routines and embrace new ones, could help us change our lifestyles and adopt healthier behaviors."

Dr. Nora Volkow - National Institute of Health

Recognize and avoid triggers:



Environmental triggers

Places, locations, smells, sounds



Social triggers

Family, friends, other users



Emotional triggers

Depression, stress, exhaustion, frustration, anger, anxiety, loneliness

Triggers cause a downward spiral



Recognizing triggers

"For relapse prevention, it is crucial to understand the



environmental cues that trigger cravings. Recovery is rechanneling the brain so that when those cues come, your brain is channeled to brain-healthy activities. Eventually, when the craving occurs, the brain returns to homeostasis much more readily. Recovery becomes more natural, and you get the healthy reward."

David Smith, M.D. co-author of Unchain Your Brain

REWIRING THE BRAIN

Neuroplasticity

'Neuro' = brains

'Plastic' = changeable

Neuroplasticity promises a new understanding of what it means to be human: we can rewire our brains just by thinking!

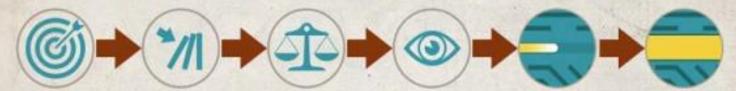
Practice, Practice!



"Rewiring requires setting new goals and practicing the healthy pursuit of reward while the brain is creating new pathways."

David Smith, M.D. co-author of Unchain Your Brain

Neuroplasticity



Set goals

Recognise triggers

Make conscious decisions

and reward from healthy pursuits

Seek pleasure New pathway New healthy is strengthened habit is formed

Preparation



Avoid substances that provide



Learn to live a comfortable and responsible life in unhealthy rewards which your brain is rewarded by healthy pursuits



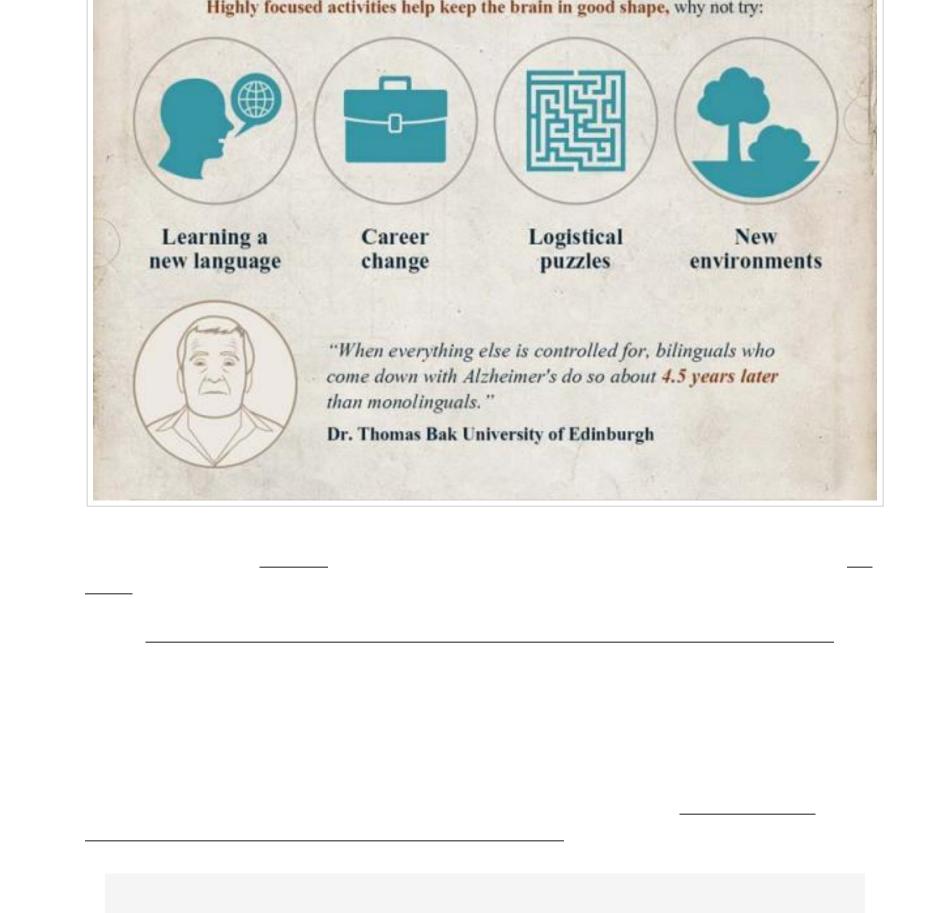
Exercise, try yoga and meditation



Seek support from peers and take care of yourself: don't get too tired, too hungry, too lonely, too angry

Brain Training

If we don't learn new skills, we don't engage our brain's plasticity.





One blogger likes this.

★ Like



Beyond Medication: Mental Health, Holistic Healing & Nutrition

A 2-part ecourse exploring the latest, most up to date research & knowledge about food, natural healing and mental health.*



Releasing PTSD

Watch a full A-Z treatment from Steve Andreas and see what's possible.

Releasing PTSD.com

