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The split between “free public domain ebooks” and “free original ebooks” is surprisingly even. A big chunk of the public domain titles are short stories and a lot of the original titles are fanfiction. Still, if you do a bit of digging around, you’ll find some interesting

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Mammalian Brains

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A brain is an organ that serves as the center of the nervous system in all vertebrate and most invertebrate animals. It is located in the head, usually close to the sensory organs for senses such as vision. It is the most complex organ in a vertebrate's body. In a human, the

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cerebral cortex
contains approximately
14–16 billion neurons,
and the estimated
number of neurons in
the cerebellum is ...

Brain - Wikipedia

The term 'extracellular vesicles' refers to a heterogeneous population of vesicular bodies of cellular origin that derive either from the endosomal compartment (exosomes) or as a

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result of ...

Mammalian Brains

**RNA delivery by
extracellular
vesicles in**

**mammalian cells and
its ...**

We are reverse-engineering the brain to understand the mind. Featured News. What Words Can Convey. A study led by then-undergraduate Gabriel Grand, now a graduate student in EECS, and Idan Blank

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PhD '16, now an assistant professor at UCLA, while they were in the Fedorenko lab in BCS and the McGovern Institute, reveals the rich knowledge within

...

The MIT Department of Brain and Cognitive Sciences | Brain and ...

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Mind uploading, also known as whole brain emulation (WBE), is the theoretical futuristic process of scanning a physical structure of the brain accurately enough to create an emulation of the mental state (including

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long-term memory and "self") and transferring or copying it to a computer in a digital form. The computer would then run a simulation of the brain's information processing, such ...

Mind uploading - Wikipedia

The problem here cuts deeper than mere lack of technical understanding, e.g. our ignorance of the gene

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expression profiles and molecular signature of pure bliss in neurons of the rostral shell of the nucleus accumbens and ventral pallidum, the twin cubic centimetre-sized "hedonic hotspots" that generate ecstatic well-being in the mammalian brain.

The Biointelligence Explosion

The upcoming primary paradigm shift will be

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from biological thinking to a hybrid combining biological and nonbiological thinking. This hybrid will include “biologically inspired” processes resulting from the reverse engineering of biological brains. If we examine the timing of these steps, we see that the process has continuously accelerated.

The Law of

Page 12/23

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Accelerating Returns

« Kurzweil

The complexity of the mammalian brain challenges our ability to explain it. My group

applies methods from mathematics and theoretical physics to understand the brain.

We are generating novel ideas about neural computation and brain

development, including how neurons process information, how brain

development, including how neurons process information, how brain

development, including how neurons process information, how brain

development, including how neurons process information, how brain

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Humanoid Brains

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Neuroscience - Cold Spring Harbor Laboratory

Based on this prokaryotic system, scientists have engineered a series of CRISPR/Cas tools for genome editing in mammalian cells, with the list of CRISPR/Cas systems in use continuing to expand.

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The most commonly used Cas nuclease comes from *Streptococcus pyogenes* (SpCas9), and belongs to the type II CRISPR system.

Advances in CRISPR/Cas-based Gene Therapy in Human Genetic Diseases

Introduction. System Xc – is an amino acid antiporter that mediates the exchange

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of extracellular cystine and intracellular glutamate across the plasma membrane [1, 2]. Because cysteine reduced from cystine is the rate-limiting substrate for the synthesis of the antioxidant glutathione (GSH) [], inhibition of system Xc --mediated cystine import by small molecules (e.g., erastin) causes ...

ATF3 promotes
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Human Brains

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Xc

EPFL's Blue Brain

Project is a Swiss brain

research Initiative led

by Founder and

Director Professor

Henry Markram. The

aim of Blue Brain is to

establish simulation

neuroscience as a

complementary

approach alongside

experimental,

theoretical and clinical

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Manufacturing Gains

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neuroscience to understanding the brain, by building the world's first biologically detailed digital reconstructions and simulations of ...

Blue Brain Project - EPFL

Eusocial honeybee is a versatile model for neurobiological research. Here, the authors established a link between honeybee gut *Lactobacillus* in bee

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learning and memory
ability via indole...

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**Honeybee gut
Lactobacillus
modulates host
learning and
memory behaviors**

...

DNA methylation has been found to be involved in sex determination and differentiation in many aquaculture species.

The Ussuri catfish

(*Pseudobagrus*

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ussuriensis) is a popular aquaculture fish in China with high economic value in which male-biased sex dimorphism was observed in terms of body size and body weight. In this study, DNA methylation-sensitive RAD sequencing (Methyl-RAD) was used to ...

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DNA Methylation
Difference between**

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Female and ...

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The one to many relationship between department and students, and, department and faculty

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Manhattan Drive

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states that a department belongs to many students and it employs many faculty members. Looking at these relationships in a reverse direction conveys that a student as well as a faculty belongs to a single department and thus establishes one to one

...

**college website
project report -
SlideShare**

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Password

requirements: 6 to 30

characters long; ASCII
characters only

(characters found on a
standard US keyboard);
must contain at least 4
different symbols;

Copyright code:

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00998ecf8427e.](#)