

# Innate How The Wiring Of Our Brains Shapes Who We Are

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Explore the profound connection between the innate wiring of our brains and the fundamental aspects of who we become as individuals. This insightful examination delves into how our neural architecture, from birth, significantly shapes our personality, perceptions, and responses, offering a deeper understanding of the biological underpinnings of human identity.

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Innate How The Wiring Of Our Brains Shapes Who We Are

How the Wiring of Our Brains Shapes Who We Are - with Kevin Mitchell - How the Wiring of Our Brains Shapes Who We Are - with Kevin Mitchell by The Royal Institution 57,313 views 5 years ago 42 minutes - Neuroscientist Kevin Mitchell is interested in how **human**, diversity and individual differences stem from how our **brains**, are wired.

Intro

What makes you you?

And in the Physical Structures of our Brains

Differences Between Humans and Chimps

Early Embryonic Development

Brain Development

1000s of types of neurons

Organised into microcircuits

Connected into larger brain systems

Genetic Program for Making a Human Brain

Genes are physical stretches of DNA

Genes encode proteins

Proteins are molecular machines

Molecular Machinery: A Tour of the Protein Data Bank

Brain structure in twins

Can reconstruct tracts, examine connectivity

Heritability of Brain Structural Connectivity

Heritability of Functional Connectivity

Family environment has little effect on traits

Intrinsic Developmental Variation

Neuromodulators gate synaptic plasticity

Neuromodulator circuits differ between people

Subjective Experience Gates Plasticity

Genetic Effects on Experience

#274 Kevin Mitchell - Innate: How the Wiring of Our Brains Shapes Who We Are - #274 Kevin Mitchell - Innate: How the Wiring of Our Brains Shapes Who We Are by The Dissenter 1,952 views 4 years ago 1 hour, 17 minutes - RECORDED ON OCTOBER 16th, 2019. Dr. Kevin Mitchell is Associate Professor of Genetics and Neuroscience at Trinity College ...

Thinking about human nature and individual variation

The genome does not encode a person

Probabilistic brain development

Behavioral genetics, and issues with the “non-shared environment”

The problem with Robert Plomin’s take on polygenic scores

Experiences are not things that just happen to us

Being careful about the neuroplasticity hype

Different decision-making parameters

Problems with research in psychological epigenetics

Studying group differences

Sex differences, and the “male” and “female” brain

Should we be more tolerant toward people different from us?

Follow Dr. Mitchell’s work!

Q&A: How the Wiring of Our Brains Shapes Who We Are - with Kevin Mitchell - Q&A: How the Wiring of Our Brains Shapes Who We Are - with Kevin Mitchell by The Royal Institution 10,560 views 5 years ago 33 minutes - Kevin Mitchell is an Associate Professor in the Smurfit Institute of Genetics in Trinity College Dublin and a member of the Trinity ...

Who takes your work and applies it

The identical twins

How much is genetic vs development

How can we improve intelligence

Early intervention

plasticity and intelligence

control and influence

neurological differences

the future

Questions

Nature & Nurture #27: Dr. Kevin Mitchell - Innate: How the Wiring of Our Brains Shapes Who We Are - Nature & Nurture #27: Dr. Kevin Mitchell - Innate: How the Wiring of Our Brains Shapes Who We Are by The Nature & Nurture Podcast 332 views 2 years ago 1 hour, 7 minutes - Dr. Kevin Mitchell is an Associate Professor of Genetics and Neuroscience at Trinity College Dublin. In this episode **we**, discuss his ...

The Transition to Humans

Synesthesia

Developmental Perspective on Behavioral Genetics

Drug Addiction

Evolutionary Critique of the Validity of Our Perceptions

Frequency Dependent Selection

BS 159 Kevin Mitchell, author of "Innate: How the Wiring of Our Brains Shapes Who We Are" - BS 159 Kevin Mitchell, author of "Innate: How the Wiring of Our Brains Shapes Who We Are" by Brain Science Podcast with Ginger Campbell 560 views 4 years ago 1 hour, 8 minutes - BS 159 is an interview with Dr. Kevin Mitchell, author of **Innate: How the Wiring of Our Brains Shapes Who We Are**,. We discuss the ...

Intro

About Kevin Mitchell

Writing innate

Overview of innate

Text Expander

Genetics

Variability

Genetic vs Trait

Genetic Inheritance

Heritability

Personality Traits

Brain plasticity

Habit formation

What have I left out

Advice for students

How to get into neuroscience

Conclusion

Review

Kevin Mitchell on How The Wiring of Our Brains Shapes Who We Are - Kevin Mitchell on How The Wiring of Our Brains Shapes Who We Are by NOUS The Podcast 655 views 5 years ago 1 hour - My, guest in this episode is a neurogeneticist who is unafraid to tackle some of the most politically charged questions in science.

What's the best metaphor for describing how genes work? Should we think of them as a blueprint, a program, a recipe or even a database?

I probe Kevin for his explanation of the Mystery of Missing Heritability. Why has molecular genetics not been more successful?

We tackle the brain differences between men and women, and explore the biological basis of homosexuality. Did you know we can deliberately breed homosexual rats?

We discuss Kevin's view that psychiatric conditions are genetic and that genetics can transform the field.

Kevin leaves me with a brief, provocative outline of his view that we can have free will despite being in some sense biologically determined creatures.

Do We Have Freewill? / Daniel Dennett VS Robert Sapolsky - Do We Have Freewill? / Daniel Dennett VS Robert Sapolsky by How To Academy Mindset 140,147 views 2 months ago 1 hour, 7 minutes - Two titans of neuroscience and philosophy come together to debate the existence of free will – a question with profound ...

Dr. Ibrahim Karim talks about BioGeometry and Divine Frequency **A MUST WATCH** Dr. Ibrahim Karim talks about BioGeometry and Divine Frequency **A MUST WATCH** by Higher State of Consciousness 13,434 views 1 year ago 16 minutes - BioGeometry utilizes the "Energy of **Shape**," to produce a certain vibrational quality that balances energy fields. This can be ...

Emotions and the Brain: What is the limbic system? - Emotions and the Brain: What is the limbic system? by Science ABC 163,475 views 2 years ago 5 minutes, 42 seconds - The limbic system is the term for various parts of **the brain**, involved in emotions such as fear, aggression, and attraction, and ...

Intro

What is the limbic system

The thalamus

The amygdala

The hypothalamus

The hippocampus

Robert Sapolsky And Daniel Dennett Free Will Debate - Robert Sapolsky And Daniel Dennett Free Will Debate by Theories of Everything with Curt Jaimungal 15,796 views 2 months ago 12 minutes, 13 seconds - Daniel Dennett comments on the Robert Sapolsky free will debate. Main Episode with Daniel Dennett (December 2023): ...

How to learn major parts of the brain quickly - How to learn major parts of the brain quickly by Doctor Ali Mattu 1,057,061 views 7 years ago 5 minutes, 2 seconds - Learn how **the brain**, works in 5 minutes using only your hands. Support me on Patreon: <http://www.patreon.com/thepsychshow> ...

Intro

Hands

White matter

Hands and wrists

Frontal lobe

occipital lobe

Limbic system

Rewiring the Brain: The Promise and Peril of Neuroplasticity - Rewiring the Brain: The Promise and Peril of Neuroplasticity by World Science Festival 555,386 views 1 year ago 1 hour, 26 minutes - briangreene #brainpower #neuroscience **Human**, enhancement has long been depicted as having the potential to help but also ...

Introduction

Welcome

What is brain plasticity

Critical periods

The importance of critical periods

Technology and plasticity

Control of plasticity

Reopening brain plasticity

Dolphin II

Immersive Experience

Brakelike factors

Reopening a critical period

Enhancing healthy brains

Immersive environments

Opening a permissive gate

Arnold B. Scheibel - How Brain Scientists Think About Consciousness - Arnold B. Scheibel - How Brain Scientists Think About Consciousness by Closer To Truth 261,286 views 1 year ago 14 minutes, 28 seconds - Is consciousness a scientific problem to be solved? Or a philosophical problem that will remain a mystery? What do scientists who ...

Dr. Henry Grayson Teachs A Simple Technique to Create New Neuro Pathways - Dr. Henry Grayson Teachs A Simple Technique to Create New Neuro Pathways by Henry Grayson 352,493 views 14 years ago 4 minutes, 9 seconds - A Simple Technique to reprogram Neuro Pathways.

Do We Have Free Will? | Robert Sapolsky & Andrew Huberman - Do We Have Free Will? | Robert Sapolsky & Andrew Huberman by Huberman Lab Clips 179,434 views 2 years ago 8 minutes, 14 seconds - Dr. Robert Sapolsky and Dr. Andrew Huberman discuss whether **we**, have free will and **our**, ability to make choices. Dr. Robert ...

Do we have free will

The domino effect

Conclusion

Richard Dawkins explains how the gay gene was preserved - Richard Dawkins explains how the gay gene was preserved by David Jenkins 802,976 views 13 years ago 6 minutes, 25 seconds

Innate: How the Wiring of Our Brains Shapes Who... by Kevin J. Mitchell · Audiobook preview - Innate: How the Wiring of Our Brains Shapes Who... by Kevin J. Mitchell · Audiobook preview by Google Play Books 3 views 1 month ago 1 hour, 1 minute - Innate: How the Wiring of Our Brains Shapes Who We Are, Authored by Kevin J. Mitchell Narrated by Michael Page #kevinjmitchell ...

Who's in charge? You or your brain? | Kevin Mitchell | TEDxTrinityCollegeDublin - Who's in charge? You or your brain? | Kevin Mitchell | TEDxTrinityCollegeDublin by TEDx Talks 5,750 views 4 years ago 10 minutes, 42 seconds - He is the author of: **"INNATE – How the Wiring of Our Brains Shapes Who We Are,"** (Princeton University Press, 2018). This talk ...

Intro

Do we decide to be the way we are

Our decisionmaking is constrained

Can we say our will is free

George W Bush

The recommender system

Connectome: How The Brain's Wiring Makes Us Who We Are - Connectome: How The Brain's Wiring Makes Us Who We Are by Microsoft Research 8,206 views 7 years ago 1 hour, 1 minute - Science has long struggled to pinpoint where, precisely, **our**, uniqueness resides. A connectome is a map of **connections**, between ...

The Connectome

What a Connectome Is

Is this Map Universal for all Worms

Why Do We Have To Study Connectomes

What Makes a Brain Region Work

Disorders like Alzheimer

Why Are Connect Tones Important

Synapses

The Connectome Is Where Nature Meets Nurture

Imaging the Brain

How Do We Find a Connectome

Artificial Intelligence  
 Human-Computer Interface  
 The Neural Structure of the Retina  
 Carving a Connectome  
 The Retina  
 Observation versus Manipulation  
 Optogenetics  
 The Mission of Neuroscience  
 The Nature of Seeing | How the Brain Constructs the Visual World - The Nature of Seeing | How the Brain Constructs the Visual World by Allen Institute 24,709 views 8 years ago 5 minutes, 31 seconds - Michael Buice, Ph.D., from the Allen Institute for Brain Science in Seattle, explains how **our brains**, construct the visual world that ...  
 #59 - Genetic Balancing of Nature and Nurture: A Dialogue with Kevin Mitchell - #59 - Genetic Balancing of Nature and Nurture: A Dialogue with Kevin Mitchell by Converging Dialogues 156 views 2 years ago 2 hours - He is the author of **Innate: How the wiring of our brains shapes who we are**, which you can purchase here. He also has his own ...  
 The Nuts and Bolts of Better Brains: Harnessing the Power of Neuroplasticity - The Nuts and Bolts of Better Brains: Harnessing the Power of Neuroplasticity by World Science Festival 1,558,828 views 4 years ago 1 hour - What if **your brain**, at 77 were as plastic as it was at 7? What if **you**, could learn Mandarin with the ease of a toddler or play ...  
 Opening film  
 What is neuroplasticity?  
 Participant introductions  
 Structure of the brain  
 Is the brain fundamentally unwired at the start?  
 Why does the process of human brain development seem inefficient?  
 Balancing stability and plasticity  
 Critical periods of brain development  
 Extended human childhood development compared to other animals  
 Stability and. plasticity in the visual system  
 Reopening the visual system  
 Pros and cons of brain plasticity vs. stability  
 Plasticity in the autistic brain  
 What is Transcranial magnetic stimulation (TMS)  
 Phases of emotional development  
 Schizophrenia and plasticity  
 Recovery from brain injury  
 Modern rehabilitation techniques  
 Holy grail of Neuroscience  
 Enhancing memory performance as we age  
 Regulating emotions  
 1. Experiences Build Brain Architecture - 1. Experiences Build Brain Architecture by Center on the Developing Child at Harvard University 2,013,461 views 12 years ago 1 minute, 57 seconds - The basic architecture of **the brain**, is constructed through a process that begins early in life and continues into adulthood. Simpler ...  
 Neurogeneticist, Kevin Mitchell (Brain Wiring, Genetics, Neuroscience) | The Human Podcast #20 - Neurogeneticist, Kevin Mitchell (Brain Wiring, Genetics, Neuroscience) | The Human Podcast #20 by The Human Podcast 743 views 1 year ago 59 minutes - 16:47 - Research Focuses 23:17 - Kevin's Book - **Innate: How The Wiring Of Our Brains Shapes Who We Are**, 36:39 - Effect Of ...  
 Intro  
 What Is A Neurogeneticist?  
 Choosing Genetics & Trinity College Dublin  
 PhD: Neural Development of Fruitflies  
 How Long Until We Understand An Insect's Brain?  
 Research Focuses  
 ... **Innate: How The Wiring Of Our Brains Shapes Who We**, ...  
 Effect Of Research On Personal Life  
 Understanding Stupid/Bad Behaviour  
 Morality

Free Will

Who Is Suited To Neurogenetics?

Future Plans

Relationship Between Neuroscience & AI/Genetics

11. Development, Nature & Nurture II (2018) - 11. Development, Nature & Nurture II (2018) by MIT OpenCourseWare 36,988 views 2 years ago 1 hour, 17 minutes - Continues the discussion of genes vs experience on cortical organization, and whether the cortex can change in adulthood.

Introduction

Recap

Structural Connectivity

Connectivity Fingerprints

Where are we

Control rearing

Innateness

The most detailed scan of the wiring of the human brain - BBC News - The most detailed scan of the wiring of the human brain - BBC News by BBC News 59,498 views 6 years ago 1 minute, 29 seconds - This is the most detailed scan of the **human brain**,. It was made from a scan of BBC Medical Correspondent Fergus Walsh's brain, ...

The scan was done at Cardiff University Brain Research Imaging Centre

Red shows the fibres Noong out towards the outside of the brain

Min white, where the cabling is thickest.

#268 - An Evolutionary Journey of Free Will: A Dialogue with Kevin Mitchell - #268 - An Evolutionary Journey of Free Will: A Dialogue with Kevin Mitchell by Converging Dialogues 839 views 5 months ago 2 hours, 27 minutes - He is the author of **Innate: How the wiring of our brains shapes who we are**, and his latest book, Free Agents: How Evolution Gave ...

Robert Sapolsky vs Kevin Mitchell: The Biology of Free Will | Philosophical Trials #15 - Robert Sapolsky vs Kevin Mitchell: The Biology of Free Will | Philosophical Trials #15 by Philosophical Trials 34,843 views 3 months ago 1 hour, 13 minutes - Professor Robert Sapolsky is a Professor of Biology, Neurology, and Surgery at Stanford University. He is the author of multiple ...

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