

YOUR BRAIN ON SEX

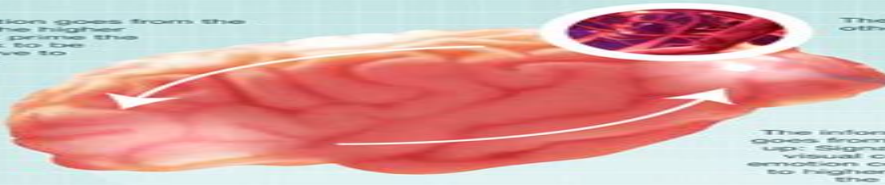
The brain has been called the largest sex organ for good reason. Thanks to its "pleasure center," the brain tells us when an experience is enjoyable, but that's not all. Take a look at the many ways the brain impacts sex.

THE SCIENCE OF DESIRE

One study revealed that participants took less than 1/4 of a second to decide whether or not a person in a photo looked desirable.

Several different parts of the brain work to analyze that information.

The information goes from the top down. The higher regions may prime the visual cortex to be more sensitive to information.



The brain regions involved with understanding others and self-awareness may also be activated.



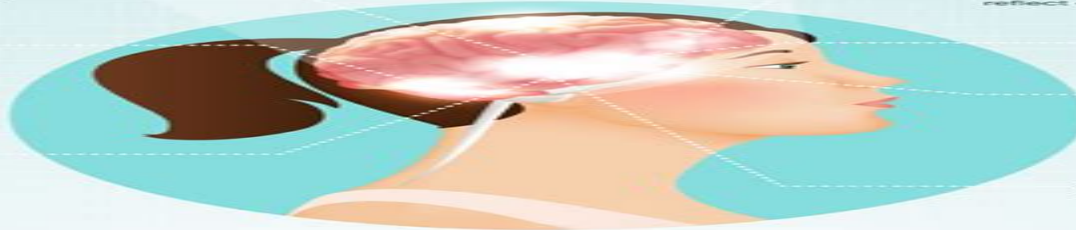
The information also goes from the bottom up. The visual cortex and emotional centers move to higher regions of the brain.

Scientists have discovered a number of regions in the brain that kick into action when people feel sexual desire and orgasm.

Amygdala: Orchestrates and regulates emotions

Cerebellum: Controls muscle function

Hippocampus: Manages our memories (May become active if we associate sights and smells with past sexual experiences)



Anterior insula: Allows us to reflect on the state of our body

Nucleus accumbens: Controls the release of dopamine

Pituitary gland: Releases chemicals that decrease pain, increase feelings of trust and increases bonding

Ventral tegmental area: Releases dopamine



There aren't too many differences between men's and women's brains when it comes to sex.

In both, the brain region behind the left eye, the lateral orbitofrontal cortex, shuts down during an orgasm.



The brain during an orgasm looks much like the brain of a person taking heroin: 95% of it is the same.

But there are some differences in the female brain during sex. Namely:



- 1 In women, the periaqueductal gray is activated during sex. It controls the "fight or flight" response.
- 2 There's also a decrease in the activity of the amygdala and hippocampus, which deal with fear and anxiety.
- 3 The section of the brain associated with pain is activated.

Orgasms wouldn't be possible without nerves sending impulses back to the spinal cord and brain.



Hypogastric nerve: Transmits from the uterus and cervix in women and the prostate in men



Pelvic nerve: Transmits from the vagina and cervix in women and from the rectum in both sexes



Pudendal nerve: Transmits from the clitoris in women and from the scrotum and penis in men



Vagus nerve: Transmits from the cervix, uterus and vagina

DESIRE: PRIMARY VS. SECONDARY

Not all desires activate the brain in the same way.

French researchers discovered that primary gratifications, like erotic images, activate a different area in the brain's orbitofrontal cortex than secondary rewards, like money.



SECONDARY REWARDS:



Money



Power



Non-Essentials

PRIMARY GRATIFICATIONS:



Food



Sex



Basic Needs

Involving the neuroscience of sex:



1944: Mrs. C. W. would wake up at night feeling as if she were having sex. That feeling was soon followed by seizures. Doctors later discovered she had a tumor pressing against her brain. Once removed, she recovered.



1969: One patient would have a fit of passion, and would sometimes have a seizure after sex. Doctors diagnosed her with epilepsy, which was likely brought on by damage done to her brain by syphilis.



2004: A woman in Taiwan would have orgasms as she brushed her teeth. She would also lose consciousness. Doctors diagnosed her with epilepsy, caused by a patch of damaged brain tissue.

Brain Sex

JS Bruner



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Table of Contents Brain Sex

1. Understanding the eBook Brain Sex
 - The Rise of Digital Reading Brain Sex
 - Advantages of eBooks Over Traditional Books
2. Identifying Brain Sex
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Brain Sex
 - User-Friendly Interface
4. Exploring eBook Recommendations from Brain Sex
 - Personalized Recommendations
 - Brain Sex User Reviews and Ratings
 - Brain Sex and Bestseller Lists
5. Accessing Brain Sex Free and Paid eBooks
 - Brain Sex Public Domain eBooks
 - Brain Sex eBook Subscription Services
 - Brain Sex Budget-Friendly Options
6. Navigating Brain Sex eBook Formats

- ePub, PDF, MOBI, and More
- Brain Sex Compatibility with Devices
- Brain Sex Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Brain Sex
 - Highlighting and Note-Taking Brain Sex
 - Interactive Elements Brain Sex
- 8. Staying Engaged with Brain Sex
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Brain Sex
- 9. Balancing eBooks and Physical Books Brain Sex
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Brain Sex
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Brain Sex
 - Setting Reading Goals Brain Sex
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Brain Sex
 - Fact-Checking eBook Content of Brain Sex
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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