

# Introduction to Neuroethics

*for the*  
*Neuroethics Learning Collaborative*

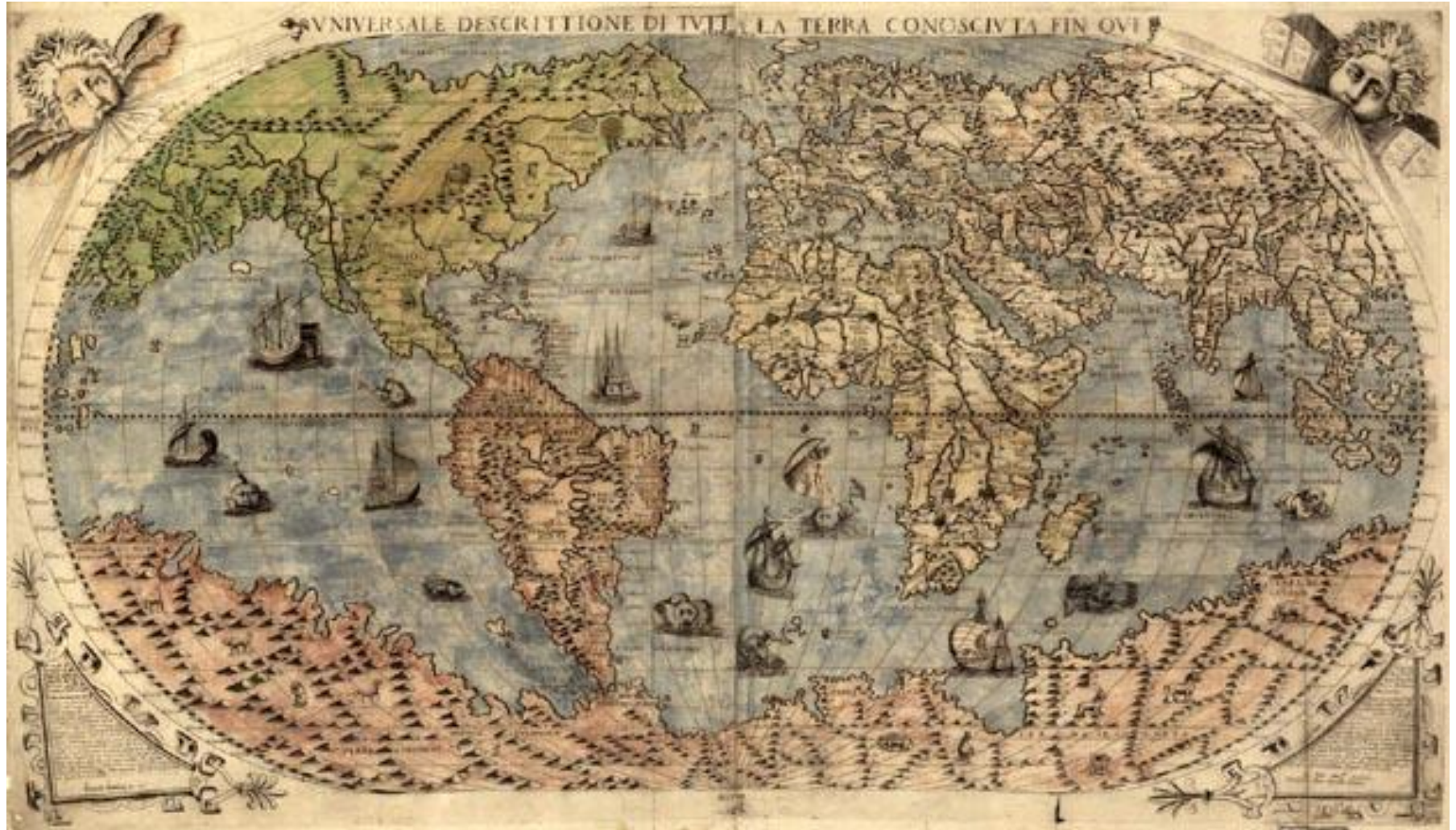


# Goals for this class

1. Help you integrate course material into a coherent view of neuroethics
2. Suggest ways to learn more about neuroethics and get involved in the field



# The lay of the land



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## Classical bioethics:

- Safety of high-field MRI, TMS...
- Incidental findings in research MRI
- Neural stem cell research involving hESC



# The lay of the land



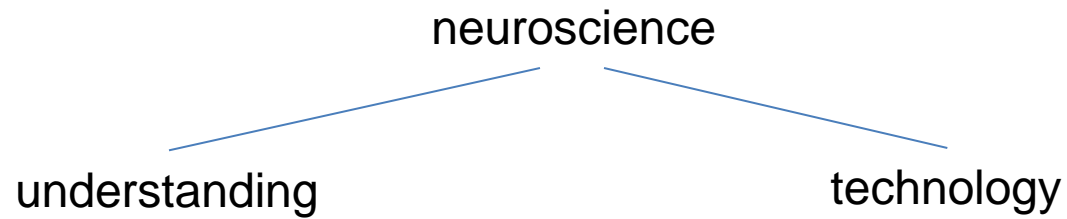
Ethical, legal and social issues arising because the brain is the organ of the human mind

Classical bioethics:

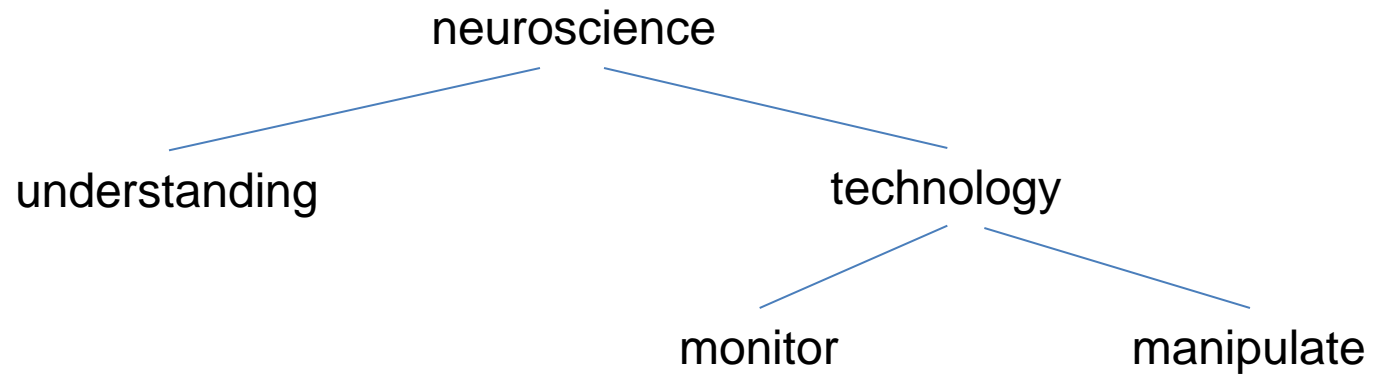
- Safety of high-field MRI, TMS...
- Incidental findings in research MRI
- Neural stem cell research involving hESC



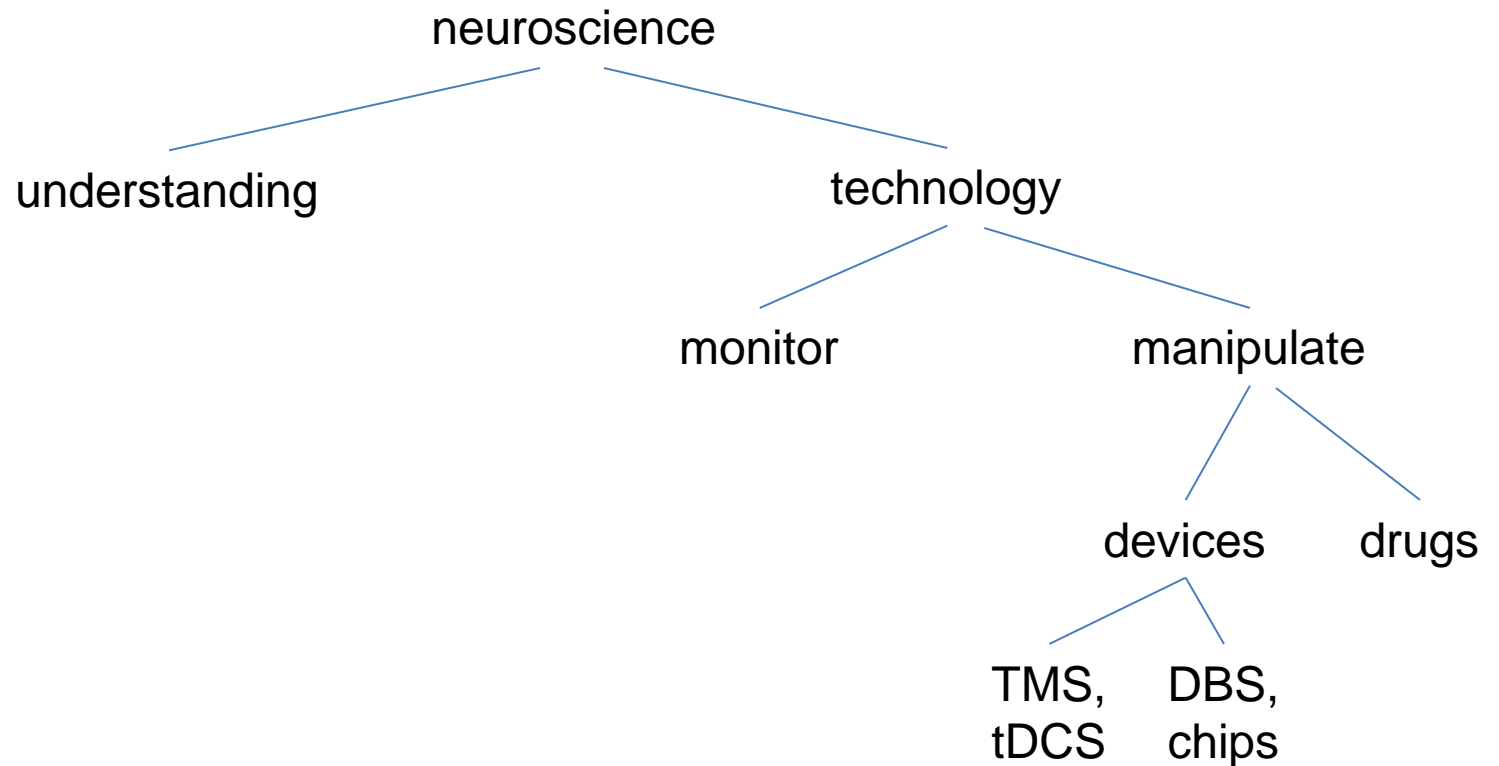
# Neuroethics tree



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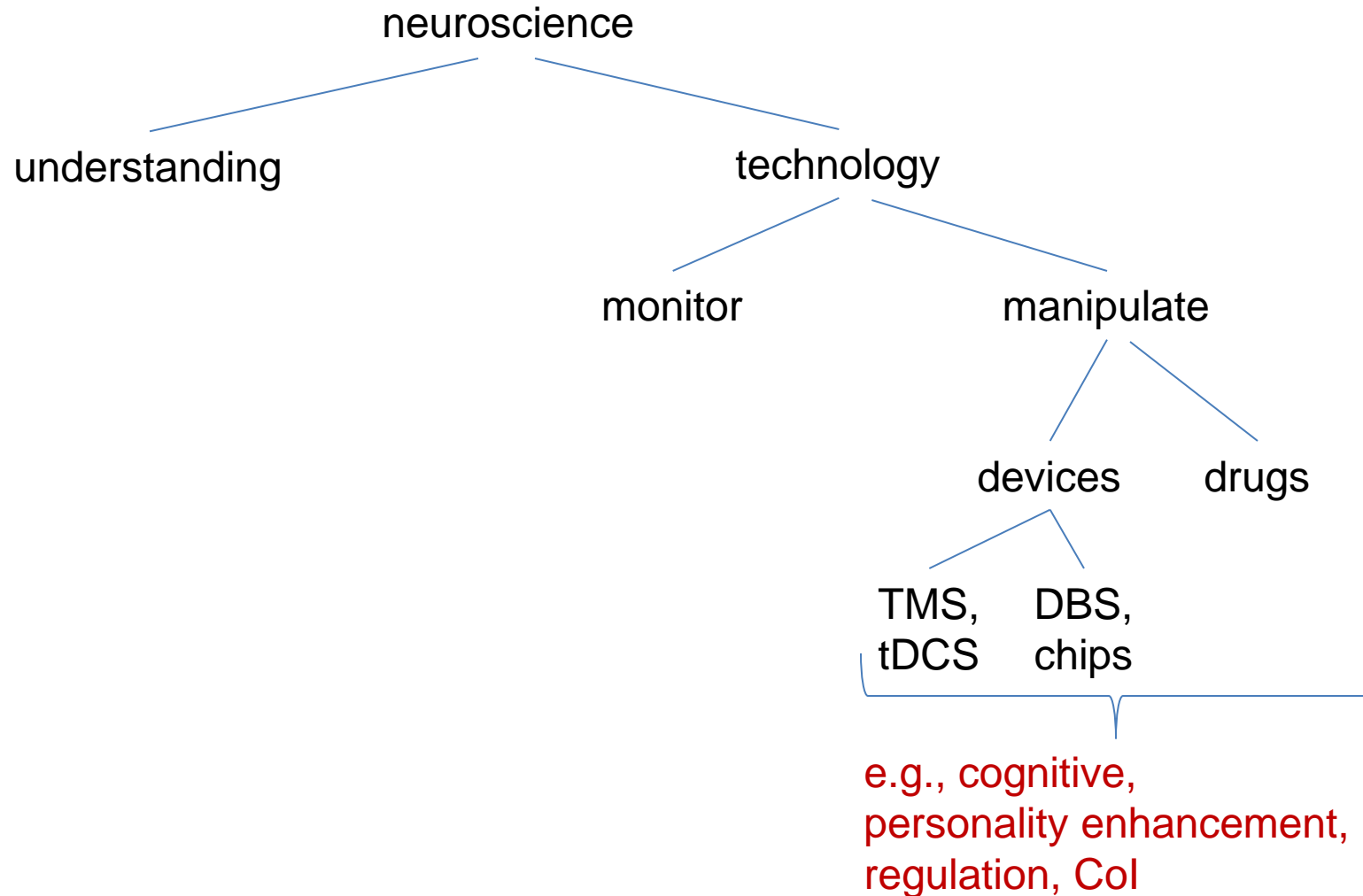


# Neuroethics tree

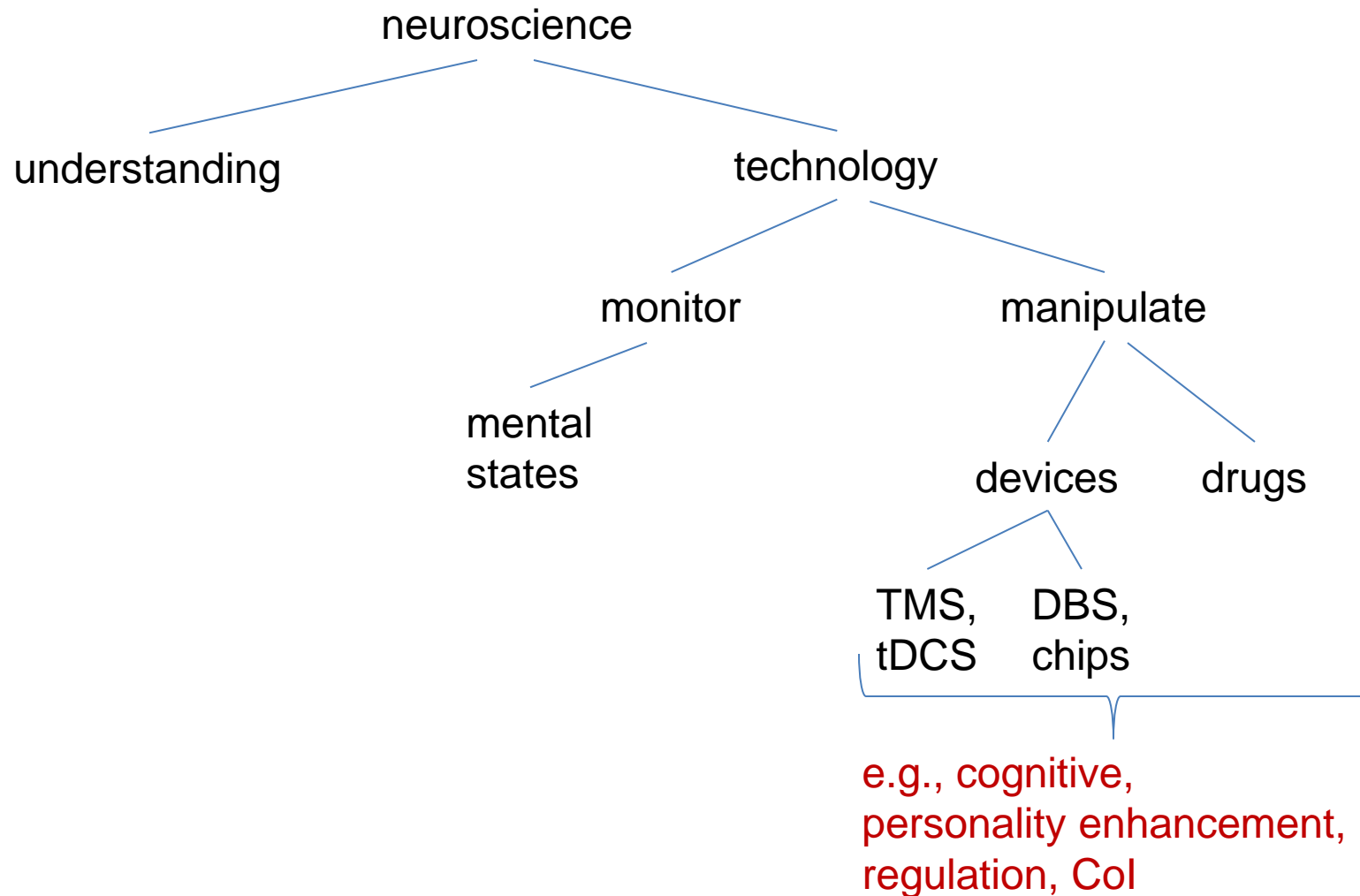




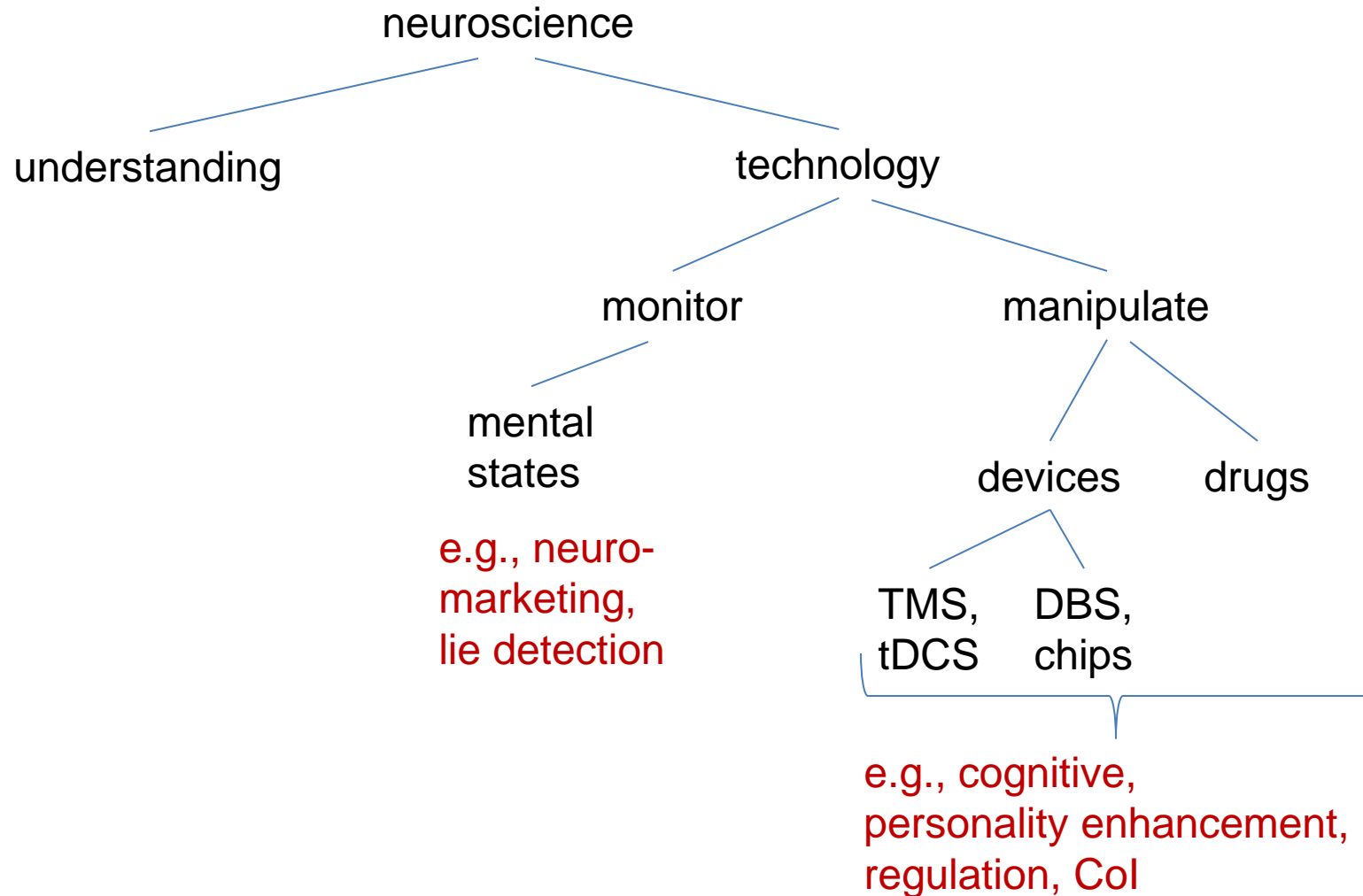
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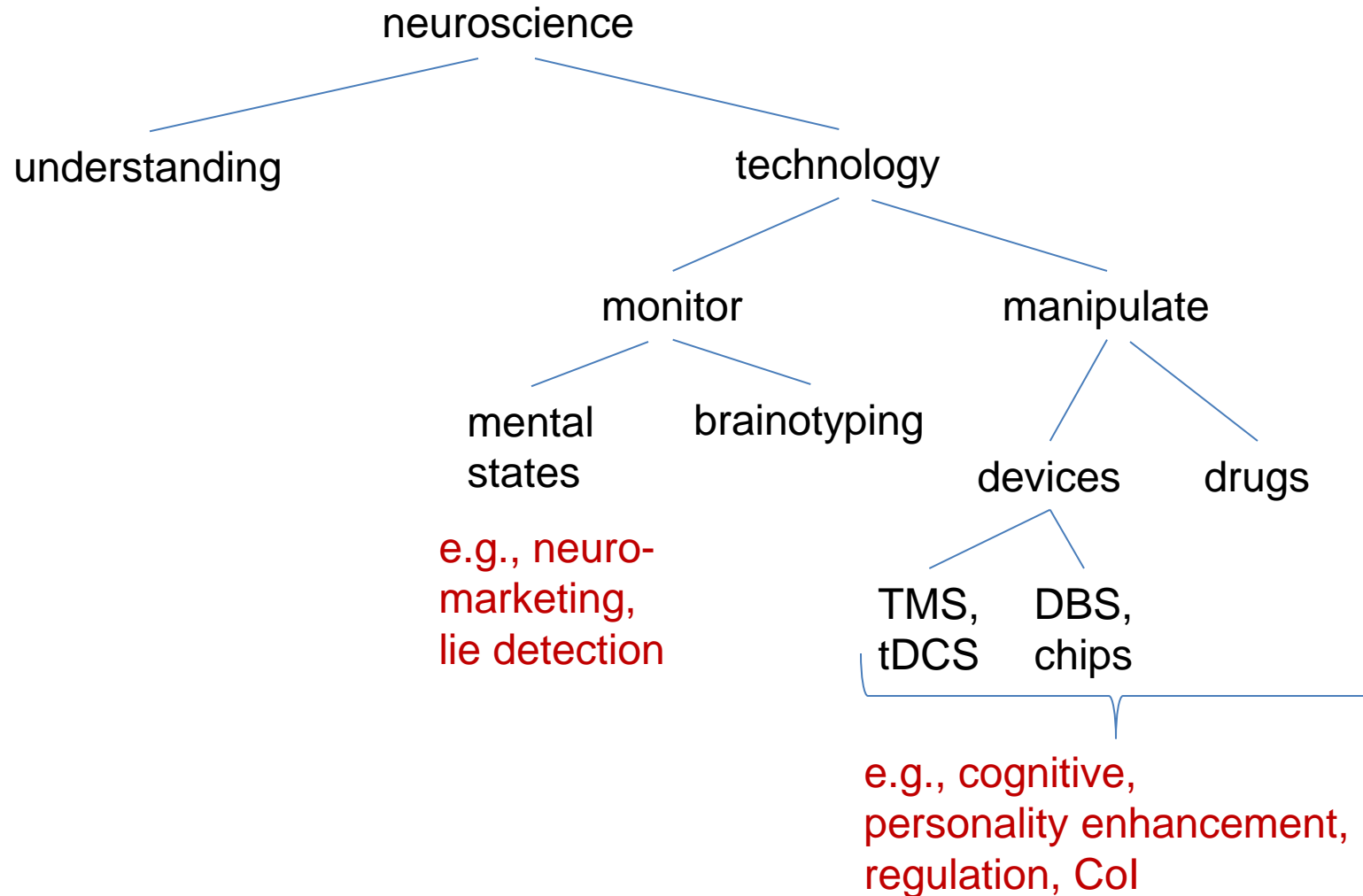
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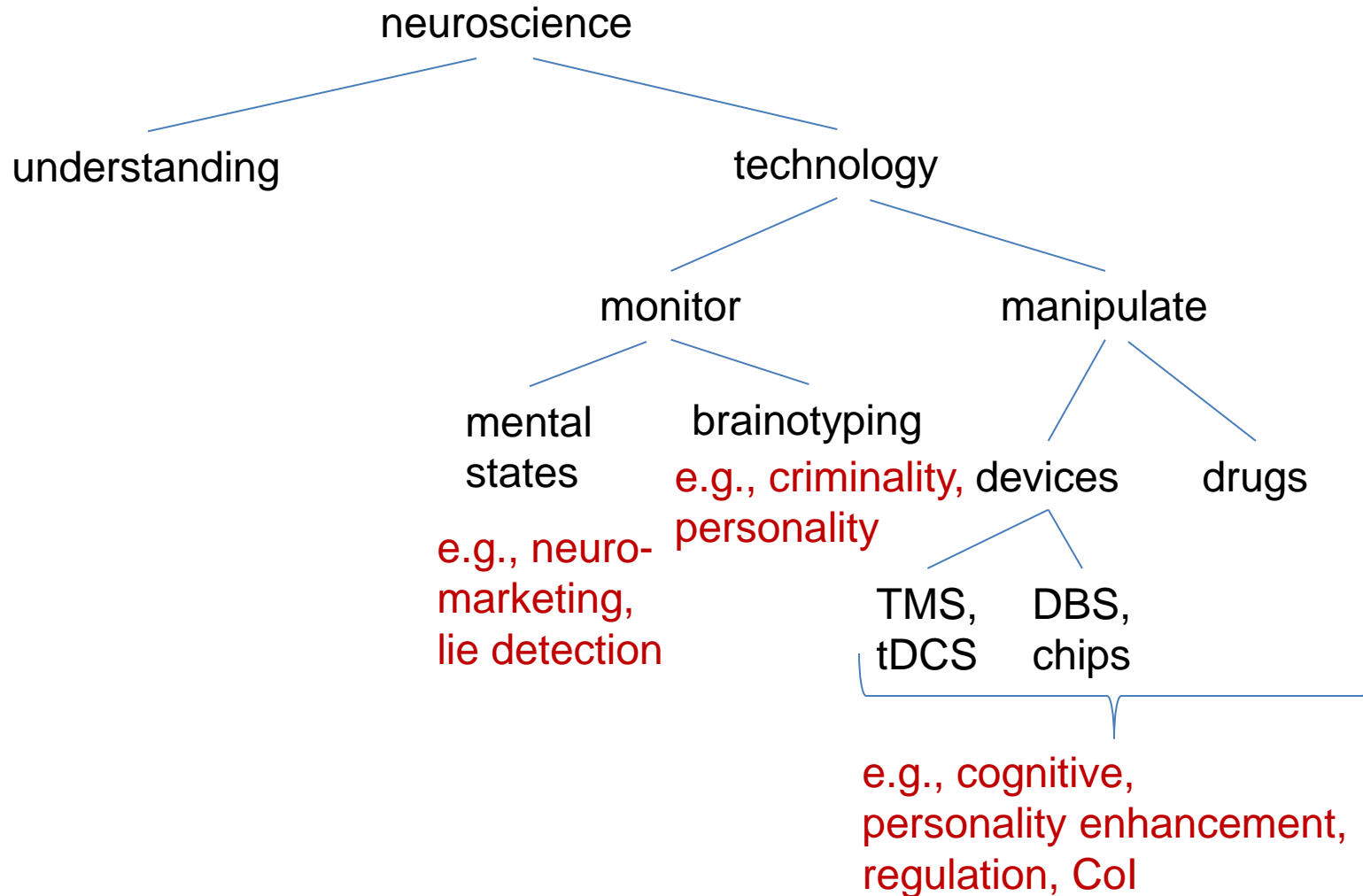
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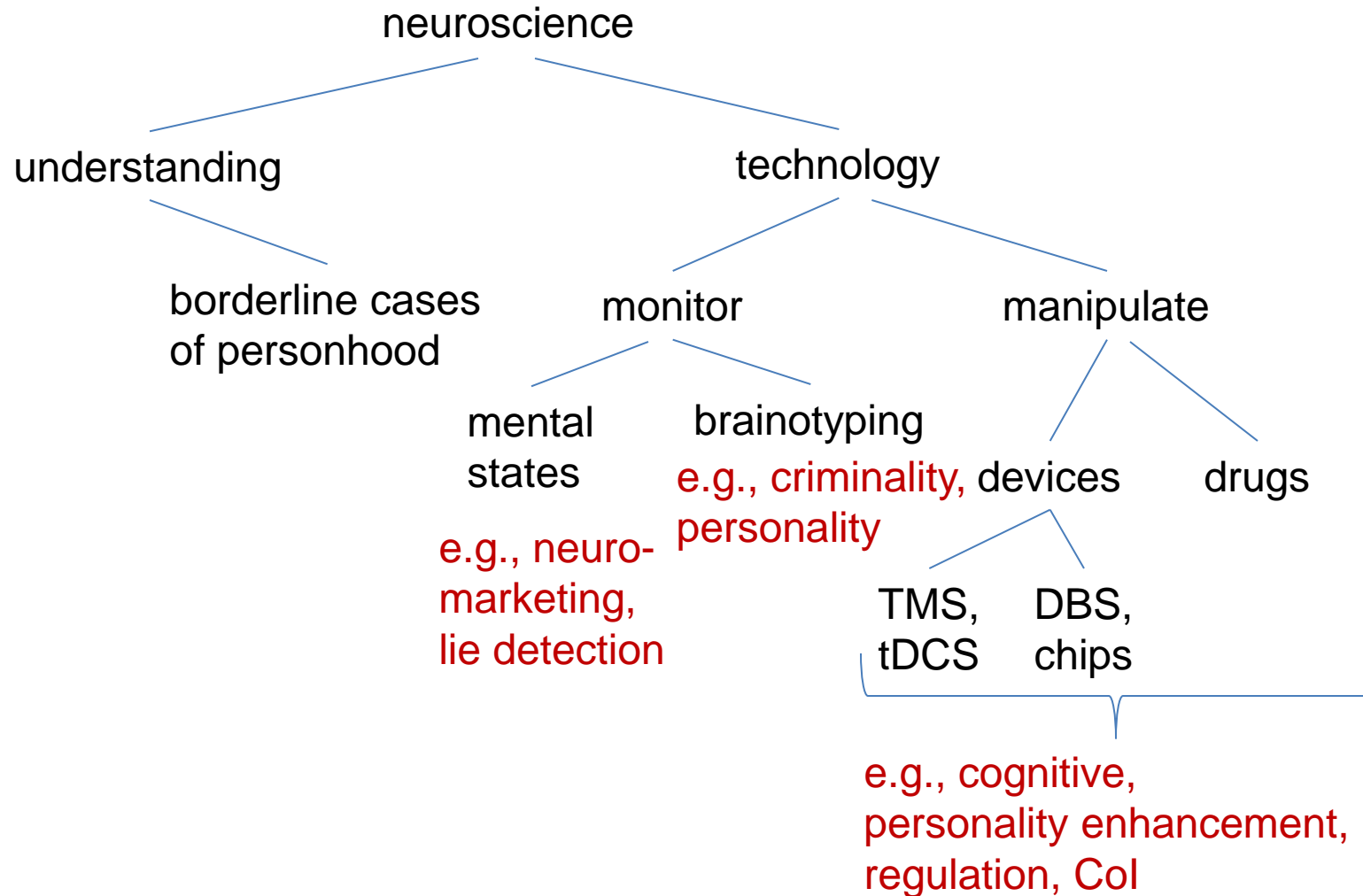
# Neuroethics tree



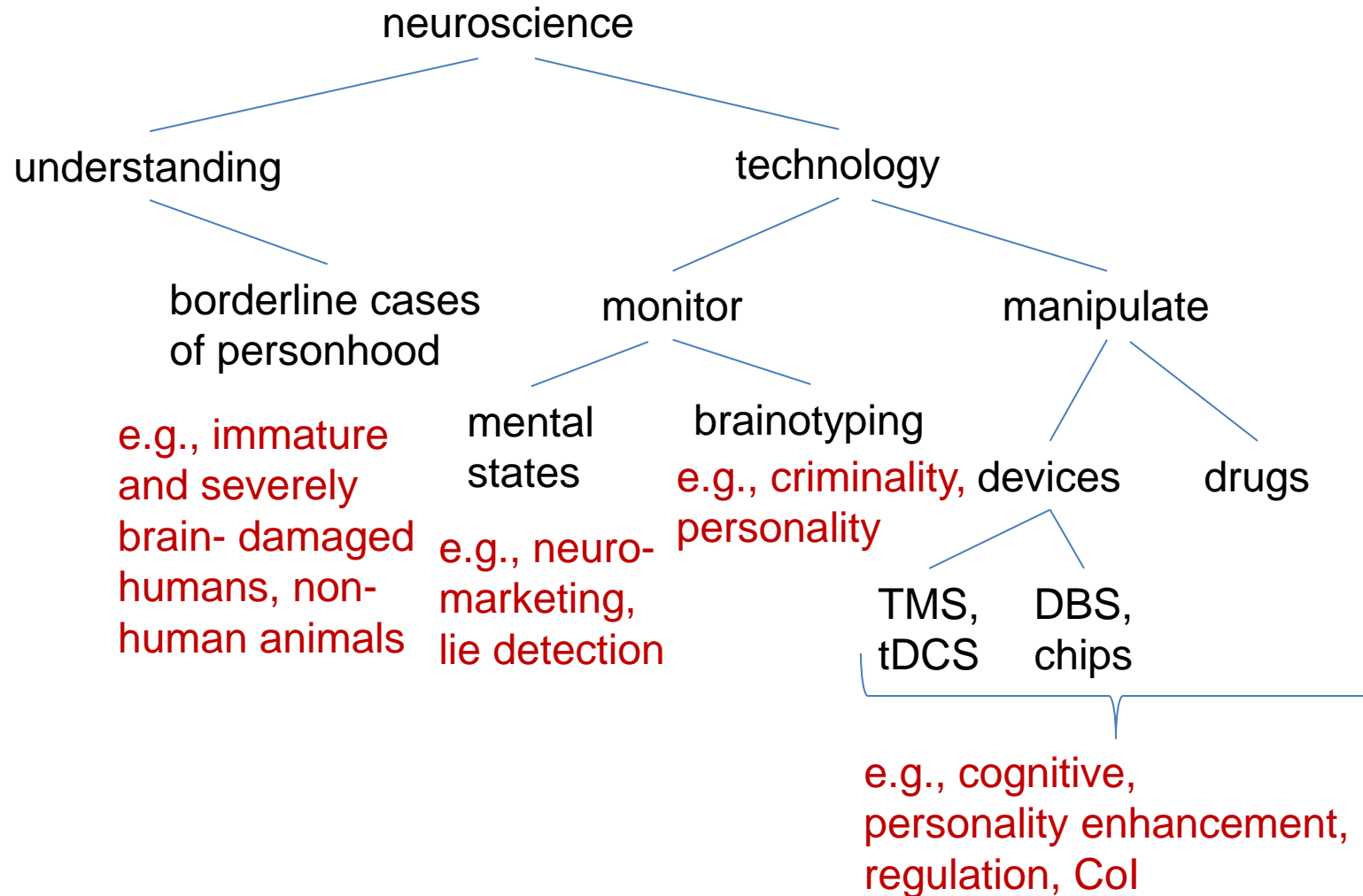
# Neuroethics tree



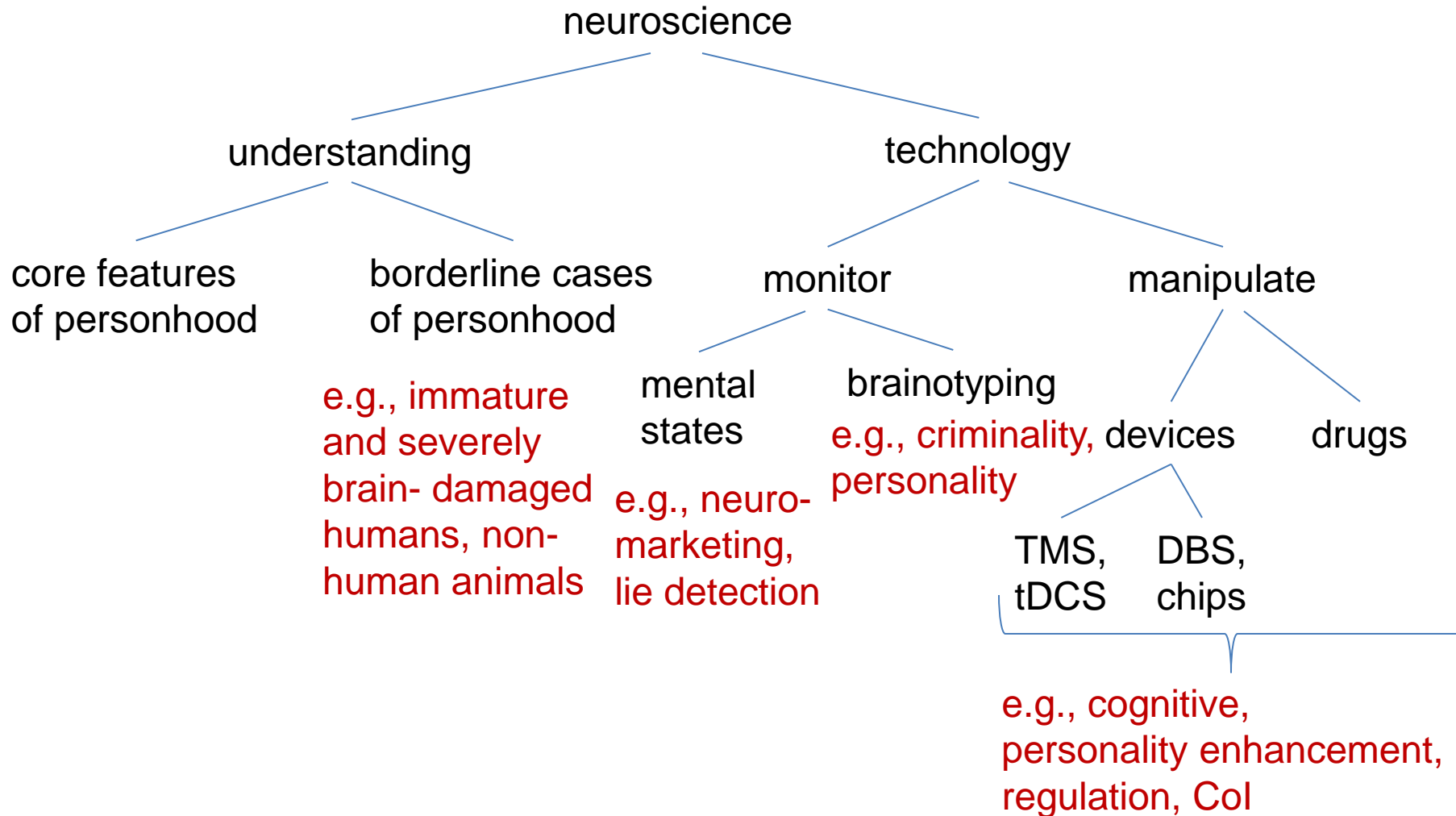
# Neuroethics tree



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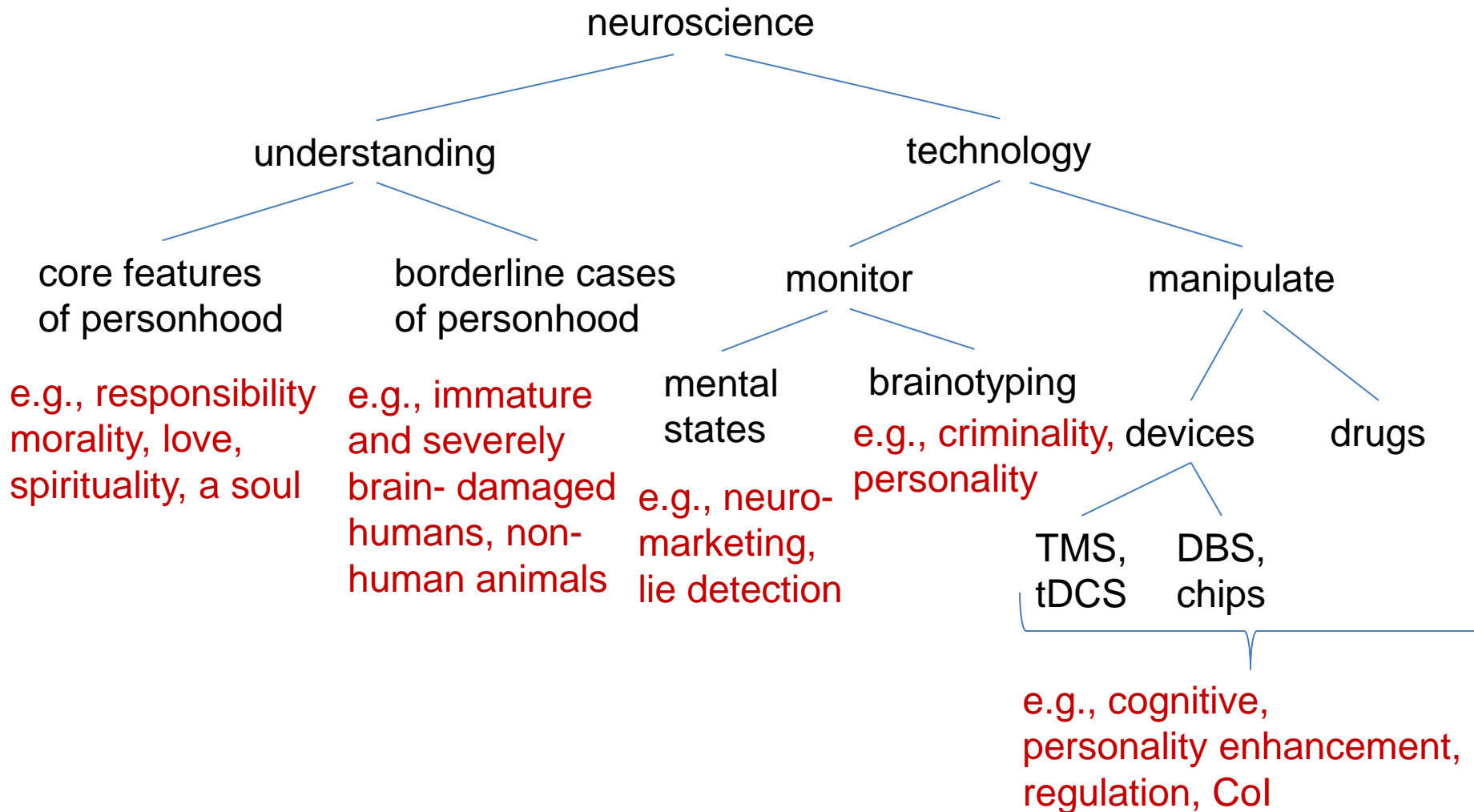


# Neuroethics tree





# Neuroethics tree



# Cross-cutting issues

[Safety]

Privacy

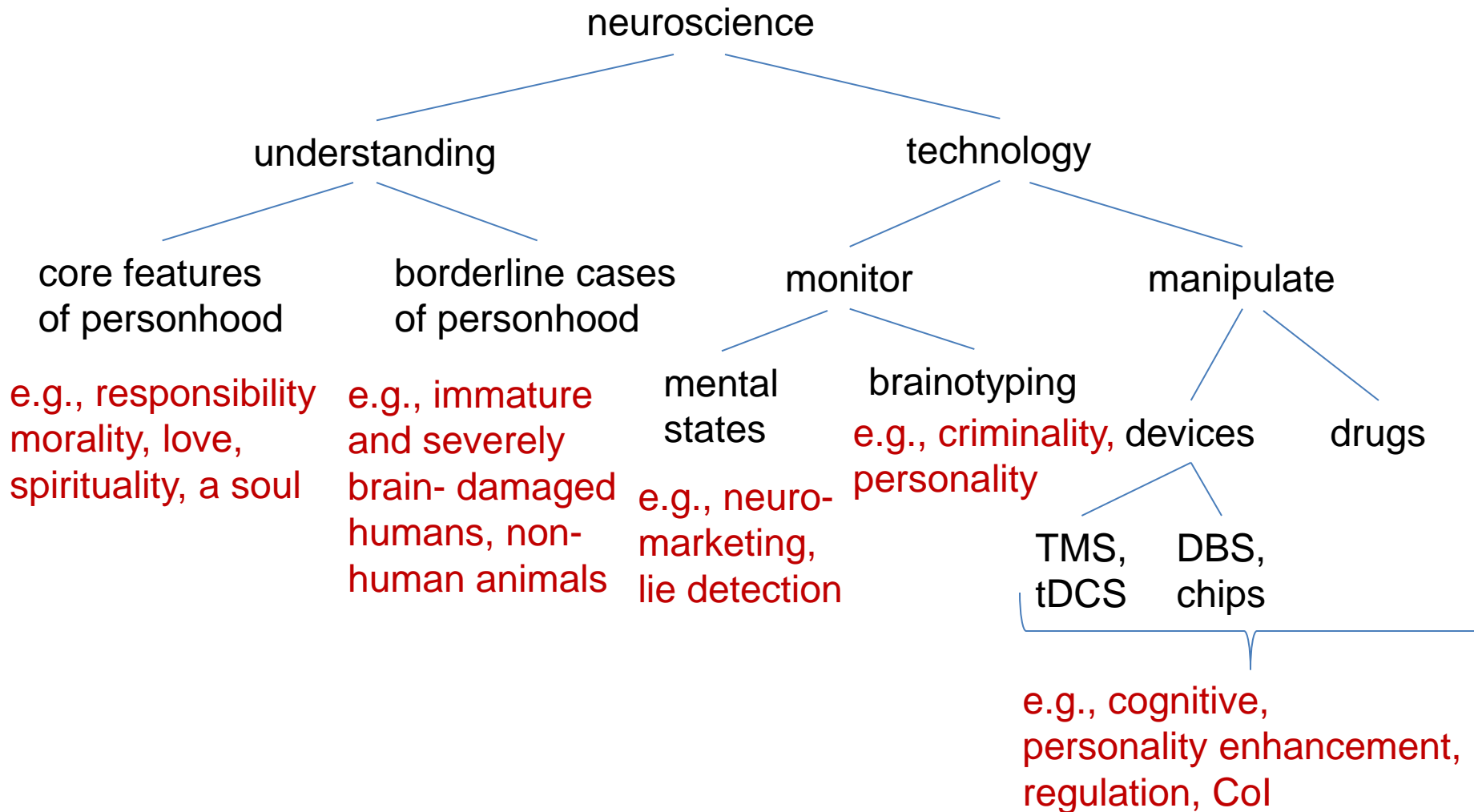
Freedom, autonomy

Premature adoption

Person-thing clash



# Neuroethics tree

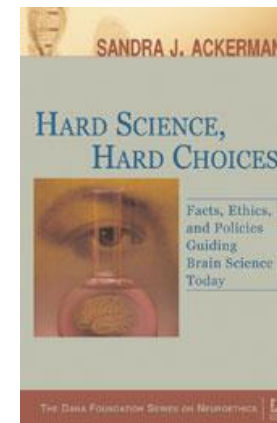
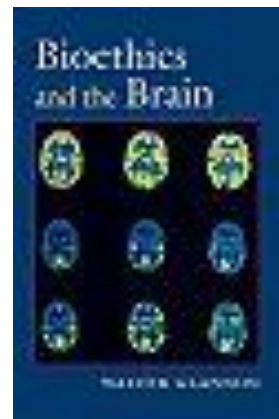
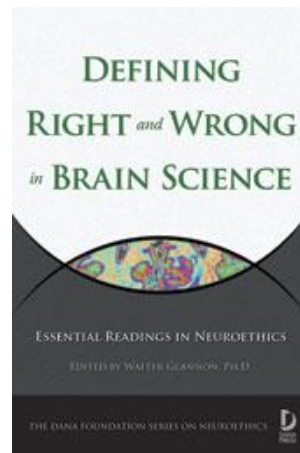
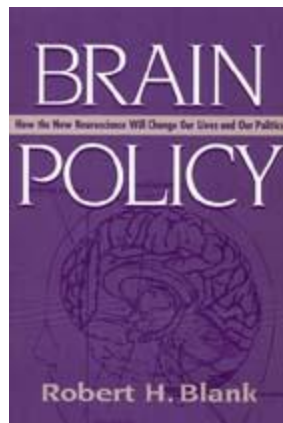
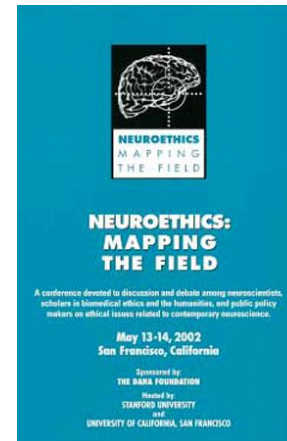
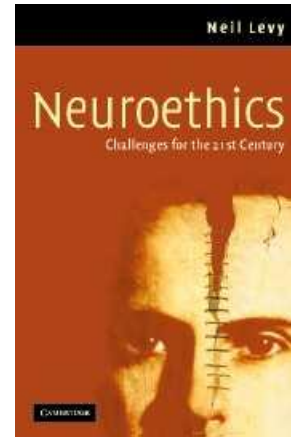
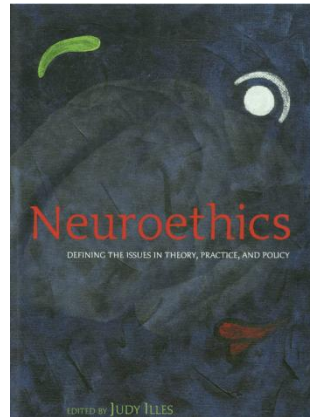
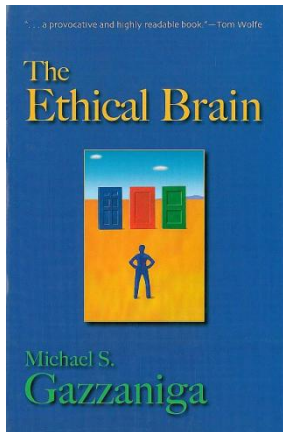


# What next?

How can you engage with neuroethics in the future?



# Books and journals



and coming summer 2010... **Neuroethics: An Introduction with Readings**, MIT Press, M.J. Farah



# Penn website

The screenshot shows a Mozilla Firefox browser window displaying the website for the Center for Neuroscience & Society at the University of Pennsylvania. The address bar shows the URL <http://neuroethics.upenn.edu/>. The website header includes the center's name and logo, a search bar, and a navigation menu with links for Home, About the Penn CNS, People, Events, Resource Center, Penn CNS News, Penn Neuroethics Briefing, and Student Programs. The main content area features a large image of neurons and a welcome message: "Welcome to the Center for Neuroscience & Society. Our mission is to increase understanding of the impact of neuroscience on society through research and teaching, and to encourage the responsible use of neuroscience for the benefit of humanity." Below this, there are sections for "UPCOMING EVENTS" and "NEWSFLASH". The "UPCOMING EVENTS" section lists three events: a UNC-Charlotte Symposium on Neuroaesthetics and Neuroethics on Thu Apr 22, a presentation by Tony Hope on Authenticity and identity in mental disorder on Thu Apr 29, and a presentation on Building Better Brains on Thu Apr 29. The "NEWSFLASH" section includes articles on brain imaging in psychiatry and psychiatric diseases. A right sidebar contains social media links, a "Stay Connected" section, and "THE LATEST NEWS" with two news items: "Chatterjee and Farah to help draft guidelines on cognitive enhancement" and "Jason Karlawish selected for RWJ Investigator Award in Health Policy Research". At the bottom, there is a "JOIN OUR MAILING LIST" section. The browser's taskbar at the bottom shows several open applications and the system clock at 12:08 PM.

Welcome to the Center for Neuroscience and Society - Mozilla Firefox

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Center for Neuroscience & Society  
UNIVERSITY of PENNSYLVANIA  
formerly the Penn Neuroethics Program

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Stay Connected    

**Welcome to the Center for Neuroscience & Society**

Our mission is to increase understanding of the impact of neuroscience on society through research and teaching, and to encourage the responsible use of neuroscience for the benefit of humanity.

**UPCOMING EVENTS**

Thu Apr 22 @08:00AM - 05:00PM  
UNC-Charlotte Symposium on Neuroaesthetics and Neuroethics


Thu Apr 29 @12:00PM - 01:30PM  
Tony Hope presents: Authenticity and identity in mental disorder: anorexia nervosa as a case example

Thu Apr 29 @07:00PM - 09:00PM  
"Building Better Brains: The Ethics of Neuroenhancing

**NEWSFLASH**

Brain imaging in psychiatry - a joint workshop with the Hastings Center

Psychiatric diseases are diseases of the brain, but can we diagnose them with brain imaging? Can neuroimaging guide treatment plans? Help redesign the DSM? The Penn PCNS hosted a



Stay Connected

**THE LATEST NEWS**

▶ **Chatterjee and Farah to help draft guidelines on cognitive enhancement**  
The American Academy of Neurology has convened a panel of experts, including two Penn...

▶ **Jason Karlawish selected for RWJ Investigator Award in Health Policy Research**  
Robert Wood Johnson Foundation awarded Dr. Jason Karlawish with an Investigator Award...

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**JOIN OUR MAILING LIST**

If you would like to be updated on upcoming CNS news and events, please join our mailing

Done

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12:08 PM

Join w like-minded students and professionals



<http://www.neuroethicsociety.org>

Next meeting to be held in conjunction with the Society for Neuroscience annual meeting, San Diego, CA. November 12<sup>th</sup> 2010