



## Doc AG Neuroenhancement

In our DocAG "Neuroenhancement" we would like to discuss different approaches that have been claimed to enhance cognitive functioning in healthy people. We are especially interested in which methods have already been investigated scientifically and to what extent evidence for or against their effectiveness exists.

We are especially interested in, though not limited to, pharmacological and invasive interventions, cognitive strategies and other devices that might enhance cognitive functions. Additionally, we would like to shed light on ethical aspects of neuroenhancement and the role of neuroscientists in the methodological development of neuroenhancing methods in a public panel discussion.

During bimonthly meetings, specific kinds of neuroenhancement will be discussed using material from scientific publications, newspaper articles, youtube videos, TED talks, and more.

We divided the kinds of neurofeedback in these subgroups:

- pharmacological interventions (drugs, "mind enhancing food/drinks", ...)
- invasive interventions (implants, stimulation techniques, ...)
- stimulation techniques (TMS, TDCS, ...)
- cognitive enhancement strategies (meditation, cognitive training, neurofeedback, memory techniques, ...)
- enhancing devices (mind machine, light headset, ...)
- ethical aspects, commercial usage

Each session is hosted by one of the core members, who has a special interest in the respective field.

He or she suggests or prepares material for the meeting and gives an impulse talk using any media/ presentation method available.

Nonetheless every participant is invited to contribute.

For example, in preparation of each meeting, questions will be collected

For these meetings, students, PhD students, and postdocs are welcome.

In the second part, a public panel discussion will be organized and one or two experts will be invited. The topic of the discussion may be "What is the role of neuroscientists in the discussion of neuroenhancement and what responsibilities do we have?"

If you have further questions or ideas, please contact us: [docag@canlab.de](mailto:docag@canlab.de)

Kind regards,

*Viola Borchardt, Achim Engelhorn, Christian Kaiser, Anni Richter,  
Jana Tegelbeckers and Dr. Matthias Deliano*