



Summary Exercise - Project

As one core component of the course, you will be tasked with developing an innovative, disruptive, clinically oriented project proposal involving a novel application or improvement of neuromodulation technology. You will be provided with a framework to guide your thinking, including aspects such as targeting specific neural circuits, addressing unmet clinical needs, integrating neuroimaging or other advanced monitoring tools, and considering ethical, regulatory and entrepreneurial implications.

Project Guidelines:

- **Innovation and Disruption:** Proposals should introduce groundbreaking ideas that challenge the status quo of current neuromodulation practices. You should feel free to propose ideas that may currently seem speculative, you are encouraged to propose bold and unconventional ideas, thinking outside the box to challenge existing paradigms in neuromodulation technology and its clinical applications.
- **Unlimited Budget Scenario:** While you should aim for practical and impactful solutions, you are encouraged to think expansively and creatively, imagining your projects with no financial constraints
- **Clinical Relevance:** Projects must have a clinical focus, addressing a specific neurological or psychiatric condition, cognitive function, or other health-related outcomes.
- **Feasibility and Impact:** While thinking big, you should consider the potential feasibility and impact of your proposed technology, including patient outcomes, scalability, and integration into current healthcare systems.
- **Group Collaboration:** You will form groups of three to foster diverse perspectives and multidisciplinary approaches to the project. Collaborative teamwork is essential to develop a comprehensive and innovative proposal.
- **Presentation and Defense:** At the end of the semester, you will present as a group your proposal in the course, simulating a pitch for funding or approval. You will need to defend your ideas in the view of the current background and demonstrate how your proposal could transform the field of neuromodulation.
- **Supervision and Guidance:** Throughout the semester, each group will receive supervision and guidance from a teaching assistant (TA). The TA will provide support in refining ideas, ensuring scientific rigor, and offering feedback on project development. The exercise time and potential meetings with the TA will help groups navigate challenges, enhance their project proposals, and prepare for the final presentation.

This project/course will help to empower you to push the boundaries of what is possible in neuromodulation technology, fostering an innovative mindset that could lead to the next breakthrough in neuromodulation.

Evaluation Guidelines:

- **Percentage of the project for the final grade: 40%**
- **Evaluation criteria for the presentation:**
 - Background knowledge
 - Proposed solution
 - Innovation, disruptiveness
 - Feasibility
 - Readiness/responses to answers
 - Presentation skill and slides