Project Deposit

Thank you for the deposit of your research project on the AIMS-2-TRIALS data.

Best,

The AIMS-2-TRIALS Team

La réponse a été ajoutée le 19/09/2022 15:09.

Project Name?	Biological mechanisms of sensory selectivity in autism spectrum condition: Pupillary responses as index of locus coeruleus norepinephrine (LC-NE) system activity in event-related potential (ERP) to oddball stimuli
Your email address?	nico.bast@kgu.de
List below the email address of the researchers contributing to the project and who will need access to the data?	nico.bast@kgu.de (Only 1 email address per line)
	_____
Modalities in the project?	☐ Genetics (T. Bourgeron) ☐ fMRI (C. Moessnang) ☐ Theory of mind (S. Baron-Cohen) ☒ EEG (E. Jones, M. Johnson) ☒ Eye-Tracking (L. Mason) ☐ RMS (C. Ecker) ☒ Cognition (E. Loth) ☐ Resting-State (C. Beckmann) ☐ Sex differences (S. Baron-Cohen) ☐ Comorbidities (J. Buitelaar) ☒ Clinic (T. Charman) ☐ DTI (F. dell'Acqua)
Lead PI name?	Nico Bast
Lead PI email?	nico.bast@kgu.de
Affiliated Institution(s)?	University Hospital Frankfurt, Centre for Brain and Cognitive Development, Central Institute of Mental Health, Institute of Psychiatry, Donders Institute for Brain, Janssen Research & Development (PLEASE SEPARATE EACH INSTITUTION BY A COMMA)
Attach your project here	[FILE: Abstract_Bast_AIMSLEAP_oddballtask.pdf]
Attach the excel spreadsheet indicating all measures required for this proposal	[FILE: required_measures.xlsx]

Paste below the Lay's abstract	Sensory processing raised interest in autism research with the most recent classification systems. Sensory selectivity describes an automated filtering of incoming information by the brain. This mechanism has been explored by electroencephalography (EEG) and showed a different functioning in ASD. A specific brain-stem system (Locus coeruleus - norepinephrine system) might be an underlying cause that can be assessed with pupillary responses. The goal of the present research project is thus to relate pupillary responses to EEG measure of sensory selectivity. This will be investigated in an auditory oddball task that has been applied in EU-AIMS LEAP (wave 1).