This folder contains important information if you consider participating in one of the studies at the Donders Centre for Cognition of the Donders Institute. Please read the following information carefully.

The Donders Institute is a university research centre investigating the brain, cognition and behaviour. The Donders Centre for Cognition (DCC) is part of the Donders Institute and has at its disposal various techniques in order to measure behaviour and brain activity. For our research we need volunteers to participate in various experiments, e.g. language, perception, action or memory tasks. All our research and research methods have negligible to minimal risks.

**Ethics check**

Each study you may participate in has been reviewed and approved by an independent ethics committee (the ‘Ethics Committee of Faculty of Social Sciences, Radboud University Nijmegen’, [https://www.radboudnet.nl/socialsciences/research/ethics-committee-social-science/](https://www.radboudnet.nl/socialsciences/research/ethics-committee-social-science/) or the medical ethics committee, [www.cmoregio-a-n.nl](http://www.cmoregio-a-n.nl)).

**Clinical data**

Researchers at the DCC do not examine the data from a clinical perspective. Participation in any of the experiments can therefore not be considered as a clinical or screening test.

In exceptional circumstances the data collected may give indications concerning your health conditions. Prior to participation in these kinds of experiments you are required to provide name and address of your general practitioner. Additionally, in these types of experiments, we will archive your name, your personal identification number (of our subject database), and/or your (email) address. In case of a possible finding which is of clinical relevance you will be informed by a designated specialist of the DCC, or your general practitioner. In case you do not have a general practitioner (in the Netherlands), you will be informed by the Academic General Practitioner Center Heyendaal, for which you will then have to register as a patient once. Your insurance policy will cover these costs; In case you are uninsured the Academic GP Center is required to charge you a minimal amount for consultation. If you do not wish to be informed about findings concerning your health, you cannot participate in experiments at the DCC.

**Information about the experiment and giving consent**

You will receive a study specific information brochure from the researcher sufficiently in advance (this means minimally 24 hours in advance) of participation in the experiment. This will allow you time to reflect on your participation. Prior to participation, you are asked to sign a study specific informed consent form in which you confirm that you have been informed satisfactorily and are willing and able to participate voluntarily. The researcher will also sign the form, confirming that you have been informed about the experiment satisfactorily. The researcher will also ensure your privacy and that the necessary privacy conditions will be met. You have the right to withdraw from the experiment at any time without giving a reason. You can request disposal of your experimental data up to 1 month after participation in the study. After that your data will be pseudonymized, this means not...
directly identifiable, and stored in a repository. An example of the study specific “informed consent” is attached to the applicable study specific information brochure.

**Insurance**
On legal grounds a liability insurance and in some cases an additional subject insurance has been concluded for subjects participating in studies at the DCC as part of the Donders Institute. The subject insurance covers damage due to participation in the study, becoming apparent during participation in the study or within four years after termination of participation in the study.

**Use and preservation of your data**
For our research it is necessary to collect, use and preserve personal information. This concerns personal data like name, address, date of birth, email address or personal identification number of the participant database. Use and preservation of your personal data is necessary for administrative and scientific goals. These goals are: the documentation of consent for participation in research, payment for participation, granting request to destroy data, to approach in the case of incidental findings, and to approach for future research (in case consent has been given for this). In some cases it is necessary to collect demographical data or data concerning your health, background, or preferences for scientific purposes. If you do not agree with this, you cannot participate in this research.

**Confidentiality of your data**
The information you provide for the purpose of the study will be handled carefully and will only be accessible to employees who are authorized to do so. Your data will be treated confidentially. All your research data will be coded in order to protect your privacy. Your name and other information, which might lead to your identity, will be kept separate from the experimental data. Only with a so called key file your experimental data can be linked to your identity. To protect your privacy this key file will also be stored apart from the research data. Only members of the research team who are directly involved and for whom it is necessary can access your personal data and the key file. Other parties involved in the research receive only access to the coded research data and won’t be able to identify you directly on the basis of this data. Reports or publications on the study will also only report your coded not directly identifiable research data.

In some studies additional audio, photo and/or video recordings will be obtained during the experiment. These are solely collected for scientific purposes. The experimenter will always inform you about this prior to participation, additionally asking for your approval. In all cases your privacy will be protected according to European law (European General Data Protection Regulation, GDPR)

**Preservation time**
Your data will be archived during for an established period of time, which is until 10 years after the research has been finalized. The connection between your personal data and your research data will be stored until maximally one month after finalization of the research.

**Sharing your experimental data**
Given the importance of verification, re-use and/or replication of research results, experimental data are shared or made public more often. Prior to this sharing the data will completely be pseudonymized (this means not traceable to your identity). In case of concerns regarding sharing your experimental data, you have the right to request disposal of your experimental data up to 1 month after participation.

Some experimental data cannot be pseudonymized completely due to its nature, e.g. video-, photo or audio recordings. You have the right to disapprove sharing these data...
with other researchers beyond the scope of the study. This can be done via the study specific consent form.

**Right to inspection**
Few other people or agencies have the right to inspect your data, both personal and research data. This is necessary in order to check if the research was properly and reliably conducted. The persons or agencies who can obtain access to your data for the purpose of verification are: a controller who works for the responsible institute, and national or international regulatory bodies such as the Ministry of Health. They will protect and keep your personal information secret. You are requested to approve this right to inspection. In case you do not agree, you cannot participate in the study.

**Future studies**
After participation in an experiment at the DCC, it may be the case that we would like to approach you again for a future study. You can indicate on the consent form whether you agree with this. In case you consent to be approached we will store name, address, email address and your identification number from the participant database, if applicable. Also in these future experiments, participation is always voluntary and consent will be sought every time you participate in a new experiment.

**Preparation of the experiment**
Generally, no extra preparation is required before participation. It is important that you are fit, alert and that you did not drink alcohol or used drugs the night before. Before the start of the actual experiment the researcher will explain the aims of the research and the applied measurement techniques to you. You will receive instructions about what you are asked to do during the experiment, such as watching a monitor, listen to sounds (possibly over a headset), perform a reaction task, make different movements or just lie still and relax. After everything has been fully explained, you will be asked to sign the consent form. Subsequent procedures depend on the research method that is being used. You can read more about this in the information brochures on EEG, moving chair, robot or EEG-FES.

**Payment**
Participation in experiments is reimbursed. The DCC gives this reimbursement by means of participant hours or ‘VVV giftcards ([https://www.vvv cadeaubonnen.nl/](https://www.vvv cadeaubonnen.nl/)). In this latter case we need your name and address for administrative reasons.

**Additional information, independent contact person and contact**
If you are unable to make it to the appointment (on time), please inform the responsible researcher as soon as possible. You may also contact this researcher for additional information or if you would like to withdraw from participating.

**After participation**
We appreciate hearing about your experiences as a participant. You can give your feedback – with or without personal information - via this [webform](#). In case of questions or complaints about an experiment, contact the responsible experimenter first. You can also contact an independent contact person who is not involved in the study (independent contact person: Miriam Kos, of the Donders Centre for Cognition (dcclabcoordinator@socsci.ru.nl; tel 0243612650)) or fill out our webform. If applicable the independent contact person will contact you by phone.

**More information concerning your rights for processing data**
For more information with respect to compliance with your rights regarding the processing your personal data, you may contact the responsible entity for processing your data.
Radboud University is responsible for compliance with the rights of processing personal data for this research. You may contact the office of the data Protection Officer of the Radboud University via privacy@ru.nl. More information about your rights regarding processing of personal data can be found at https://www.ru.nl/privacy/english/ and on the website of the Dutch Data Protection Authority: https://autoriteitpersoonsgegevens.nl/en.
General
Our body and environment change all the time. For adequate actions, our brain needs to adapt our movements to those changes. To study this process of adaptation we make use of a haptic manipulandum or robot arm. A subject grasps the endpoint, i.e. handle, and performs reaching movements. The robot can perturb the reaches by applying a force to the handle. The position of the subject’s hand is projected into a mirror and in some cases this representation of the hand does not match with the felt position of the hand.

The subject's arm rest on an airsled. This device acts like a hovercraft, in that the subject can rest his/her arm on it while the airsled floats on the table and the arm can move frictionless over the surface.

In some experiments we make use of short electrical stimuli to the skin of the finger. In other experiments we make use of Galvanic Vestibular Stimulation (GVS). This technique perturbs the vestibular organ by applying a small current just behind the ears. Both electrical interventions will be communicated clearly to the subject before he or she makes the decision to participate in the experiment.

Precautions
Please bring (reading) glasses and or lenses if you have them.

The experiment
The experimenter will first put you comfortably in the chair of the setup, in front of the manipulandum. He will adjust its height so you have full vision of the scene and can comfortably perform the task. The experimenter will verbally instruct what your task is and during the experiment the computer will produce beeps and provide text in the screen to guide you through the experiment.

Safety
There are no risks involved in taking part in these experiments. The manipulandum will only produces forces if all safety switches are active. (one safety switch is on the handle of the robot, the other emergency stop in the hand of the experimenter). As soon as the subject releases the safety switch or the experimenter pushes the emergency button, the robot turns off. The experimenter will always be in the same room as the subject.
STUDY-SPECIFIC INFORMED CONSENT FORM

For participation in:* □ Behavioural □ EEG □ Sled □ Robot □ EEG-FES
*tick the applicable box(es)

To be filled out by the PARTICIPANT prior to the start of the experiment:
I confirm that:
- I was satisfactorily informed about the study both verbally and in writing, by means of the general information brochure and additional study specific information brochure(s) (version 2.1, December 2018).
- I have had the opportunity to put forward questions regarding the study and that these questions have been answered satisfactorily.
- I have carefully considered my participation in the experiment.
- I participate voluntarily.

I agree that:
- My research data will be acquired and stored for scientific purposes as mentioned in the general information brochure until 10 years after the research has been finalized.
- Personal data is acquired for administrative and scientific purposes.
- The connection between my personal and research data is stored until maximally one month after finalization of this study.
- Demographic data or data concerning my health, background or preferences is collected for scientific purposes.
- My not directly identifiable experimental data will be made public for verification, re-use and/or replication.
- Regulatory authorities can access my data for verification purposes.
- I will be informed by a designated expert, my general practitioner or a general practitioner of the Academic General Practitioner Center Heyendaal about any information which is of clinical relevance to me.

I understand that:
- I have the right to withdraw from the experiment at any time without having to give a reason.
- I have the right to request disposal of my experimental data up to 1 month after participation.
- My privacy is protected according to applicable European law (European General Data Protection Regulation (GDPR)).
- My consent will be sought every time I participate in a new experiment.

I agree that I can be approached for a future study for comparable scientific research and to this end my contact details are stored until maximally one month after finalization of this study YES/NO (make a choice)

I give my consent to take part in this experiment:
Name:……………………………………………….. Date of birth:……………………………....... (dd/mm/yy)
Signature:.............................................................Date and place:………………………………………………..

To be filled out by the RESEARCHER prior to the start of the experiment:
The undersigned declares that the person named above has been informed both in writing and in person about the experiment. He /she guarantees subjects’ privacy protection according to Dutch law.

Name:……………………………………………….. PI group:………………………………………………………
DCC PPF number:……………………………………………………………………………………………………..
Signature:………………………………………………..Date and place:………………………………………………..

December 2018, version 2.1
**SCREENING FORM ROBOT LAB**  
Version 2.1

To be filled out by the PARTICIPANT prior to the start of the experiment

<table>
<thead>
<tr>
<th>Please answer the following question first</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Are you younger than 16 years?</td>
<td></td>
<td></td>
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</table>

*If you answered Yes to the above question, you are not able to participate in the experiment.*

Signature:  
Date:  

To be filled out completely by the RESEARCHER after the experiment

**Adverse event**  
**YES/NO**

If YES:

- Date and time of occurrence:  
  dd/mm/yyyy time

- Description:

- Severity:  
mild/moderate/serious**

- Relation to measurement procedure:  
none/unlikely/possible/likely/definite**

- Action taken:

- Abated / follow up:
  - Follow Standard Operating Procedure Adverse Event

**Incidental Finding**  
**YES/NO**

If YES:

- Date:  
  dd/mm/yyyy

- Follow Standard Operating Procedure Incidental Finding

**make a choice

*This form is only to be used for research with people of 16 years or older, who are of sound mind and judgment. The person involved has to give his or her consent personally.*