General
Information processing in the central nervous system occurs, among other things, by electrical activity of the nerve cells. This minimal, continuous electrical activity of the brain, which is produced by the brain itself, can be measured and recorded by using electrodes. The result of such a measurement is called an ElectroEncephaloGram, or EEG for short. Because the signals that are measured are extremely weak, it is important to prevent disturbing environmental signals from influencing the brain signals. The EEG measurement therefore takes place in a specially shielded room. Depending on the research goal, the duration of the EEG registration varies from about 30 minutes up to 2 hours.

Preparation at home
To make the EEG-measurement run more smoothly, you can run through the following steps:
- Wash and dry your hair beforehand;
- Do not use gel, hairspray, etc.;
- Do not use face cream or make-up;
- If needed, bring a comb or hair brush;
- Always bring your (reading) glasses. Also if you are wearing contact lenses.

Preparation at the DCCN
A cap (sort of bathing cap) will be put on to your head. In this cap a large amount of measuring electrodes will be attached. In addition, a few single electrodes will be attached around your eyes and behind your ears using small stickers. Your eyes, nose, mouth and the underside of your face will remain free.
To obtain good signals it is important that the resistance of the skin is not too high. If necessary, the experimenter will make sure the resistance between your skin and the electrodes drops to the desired value by using some alcohol and conducting gel.

The experiment
After this preparation you can enter the shielded room. You will get instructed about what you have to do during the experiment. It may be that you have to look at a computer screen, listen to sounds (possibly through headphones), carry out a reaction-time task, make certain movements, or just sit and be relaxed. During the measurement the door of the shielded room is closed, but not locked. The experimenter can see you by use of a video camera and talk to you by means of an intercom. Sometimes the experiment will be video and/or -audio recorded for strict scientific purposes. The experimenter will inform you about this in timely fashion prior to the experiment. The measurement itself will not be noticeable for you. When enough data are obtained, the measurement is completed. The experimenter will enter the room again and will remove the cap with the electrodes. If you want you can rinse out your hair, wash and dry it. For this purpose, shampoo and towels are available. For hygienic reasons it is practical if you bring your own comb.

Additional information
The risk associated with participation can be considered as negligible risk and minimal burden. No invasive procedures are involved.
You can NOT participate in a EEG-experiment if one of the following applies:
1) You had head/brain surgery.
2) You suffer from epilepsy.
3) You suffer from claustrophobia.
4) You are pregnant or you think you are.
5) You are younger than 16 years of age.

If one of the above is applicable, please contact the researcher before the day of the experiment.
To be filled out prior to the start of the experiment

<table>
<thead>
<tr>
<th>Please answer the following questions first</th>
<th>Yes</th>
<th>No</th>
</tr>
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<tbody>
<tr>
<td>- Have you had head/brain surgery?</td>
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<tr>
<td>- Are you suffering from epilepsy?</td>
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<td></td>
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<tr>
<td>- Are you younger than 16 years?</td>
<td></td>
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</tr>
</tbody>
</table>

*If you answered “Yes” to one of the above questions, you CANNOT participate in the experiment.*

Subject name:

Date of birth:

*This form is applicable for research in healthy, competent adolescents/adults (≥16 year). The subject involved needs to provide his or her written consent personally.*
SCREENING FORM EEG
Version 2.2

To be filled out completely by the RESEARCHER after the experiment

Name: Project number:

Role: Sona systems study name:

Signature: Date:

☐ Payment ............ euro

☐ No payment

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Reporting events or findings:

Adverse Event YES/ NO*

If YES:
- Date and time of occurrence dd/mm/yyyy time
- Description

- Severity mild/ moderate/ serious*
- Relation to procedure none/ unlikely /possible / likely / definite *
- Action taken:
- Abated/ follow up:

  o Follow Standard Operating Procedure Adverse Event!

Incidental Finding YES/ NO*

If YES: dd/mm/yyyy
- Date: ..............

  o Follow Standard Operating Procedure Incidental Finding!

*make a choice
STUDYSPECIFIC INFORMED CONSENT FORM

For participation in: *

- MEG  
- EEG  
- MRI  
- NIRS  
- tCS  
- Behavioural

*tick the appropriate box(es)

I confirm that:
- I was satisfactorily informed about the study concerned both verbally and in writing by means of the general information brochure and additional study specific information brochure(s) (CMO2014/288; May 2018, version(s) 2.2).
- 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 of my own free will.

I agree that:
- My data/ body material will be collected and used for the purpose mentioned in the information brochure.
- I will be informed by my home physician or the academic GP of General Practitioner Center Heijendaal about any new information which is of medical relevance to me.
- For study purposes audio and/or video recordings may be made
- Beyond the scope of this study: my anonymized experimental data will be shared with other researchers or research groups

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 data will be protected according to applicable European privacy law.
- My consent will be sought every time I participate in a new experiment.
- For compliance check of the research few persons may have access to my (personal) data. These persons are mentioned in the information brochure. I consent for this.

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I give my consent to take part in this experiment:

Name:………………………………………. Date of birth:…………………………………… (dd-mm-yyyy)

Signature:……………………………………. Date and place:……………………………………

I agree that for scientific purposes collected potential identifiable photo/video/audio recordings beyond the scope of this study will be shared with other researchers or research groups. YES? NO/ not applicable*

I may be approached for a future neuroscientific study. YES/ NO* (*encircle choice)

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To be filled 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.

Name:………………………………………. Project code:…………………………………….

SONA title of the study:………………………………………………………………………………….

Signature:…………………………………….. Date (dd-mm-yyyy):……………………………..