

1 **General information about the study**

2 Many thanks for your interest in our study, “Investigations into the effect of light on human physiology  
3 and cognition”. Please take your time to read the text carefully. If you have any questions, we will be  
4 happy to answer them. By signing below, you can then declare that you are aware of this information  
5 and that you are willing to participate in the study.

6 **Purpose: What is the objective of the study?**

7 The study is a research project of the Max Planck Institute for Biological Cybernetics (MPI) in  
8 collaboration with the Technical University of Munich (TUM). In the study we want to examine how  
9 our brain and body react to light in the evening.

10 The data collected will be scientifically evaluated exclusively for research purposes. The research  
11 data may also be analysed for related questions within MPI and TUM.

12 **Inclusion and exclusion criteria**

13 The planned study is open to participation by healthy people between 18 and 40 years old. People  
14 who regularly take medications, are smokers, suffer from epilepsy, have a previous history of alcohol  
15 and drug abuse, have trouble sleeping or have an extremely early or late sleep-wake cycle cannot  
16 participate. Other requirements are normal vision and normal colour perception.

17 Participation also requires written consent.

## 18 Study procedure

### 19 Procedure for participation in the study

20 Participation in the study takes place in several steps. After contact is made, you will receive a link to  
21 complete a questionnaire where will ask you about your age and health. In this screening we will also  
22 collect sensitive data in accordance with data protection law (art. 9 GDPR), especially health data.  
23 Before the online screening we will ask you to confirm your consent.

24 We will then determine your suitability for participation in the study in an in-person max. one-hour  
25 screening session at the Max Planck Institute for Biological Cybernetics. This screening session will  
26 begin with a conversation about the study and the opportunity to ask questions of the study team. The  
27 actual screening session will begin after consent to participation in the study. Here, you will complete  
28 questionnaires about your general health, alcohol consumption, sleep and light exposure.  
29 Furthermore, your visual function and colour perception will be tested.

30 If you fulfil the requirements for participation, you will begin wearing an actimetry watch, which you  
31 will wear for the entire duration of the participation. In addition, you will complete a sleep diary every  
32 day. The actual measurements will be taken over a period of four weeks. On four evenings, each one  
33 week apart, you will then participate in the actual measurements for six hours at a time. For this, you  
34 will come into the laboratory 5 hours before your usual bedtime and stay until one hour after your  
35 usual bedtime. During these six hours in the laboratory, you will remain in twilight.

36 There will be three participants at a time participating in the study. Your privacy will be protected by  
37 means of partition screens. During the evening you will have access to a toilet and water. It will not  
38 be possible to eat or to drink other drinks during the evening. With the exception of visits to the toilet,  
39 you will spend the evening sitting down. We will offer you the option to listen to audiobooks or musical  
40 albums pre-selected from a library through your own headphones.

41 While you are with us in the laboratory, we will measure your body temperature by means of a  
42 temperature capsule. In addition to these continuous measurements, we will take the following  
43 measurements every half hour:

- 44 • Reaction time measurements by means of a computer programme
- 45 • Completion of questionnaires about condition and perception
- 46 • Saliva sample

47 Two hours before your usual bedtime you will then be subjected to a two-hour exposure to light. The  
48 light stimulus will be presented via a virtual reality headset, which you will wear on your head. Every  
49 half hour, you can take a break and remove the headset. After the exposure to light, you will remain  
50 in the laboratory for another hour. After the end of the study you can go home.

### 51 Investigation methods

52 During the examinations, sensitive data and particularly health data will be collected. These are  
53 explained below.

## 54 Screening

### 55 Computer-aided questionnaires

56 You will complete various questionnaires during the screening session. In the questionnaires,  
57 questions will be asked about your health, alcohol consumption, sleep and light exposure.

### 58 Visual function

59 During the screening session we will test your visual function. We will do this with the aid of special  
60 equipment that measures your visual acuity, colour perception and spatial perception. In addition,  
61 your visual function will also be tested by our ophthalmologist, Dr med. Stephan Munkwitz, and an  
62 image of your retina will be made.

### 63 Blood sampling for genotyping

64 During the screening session 5 ml blood will be taken from you. We want to find out whether there is  
65 a link with sensitivity to evening light in people with variants in certain genes responsible for sensitivity  
66 of the eye to light and for the internal clock. The blood sample will be taken by our ophthalmologist,  
67 Dr. med. Stephan Munkwitz, using a routine method. Blood samples will initially be stored on our  
68 premises in a locked refrigerator and then transported to Tübingen University Hospital (UKT). There,  
69 your genetic material will be extracted from the blood and then examined for different variants by the  
70 Molecular Genetics Group (Dr. Susanne Kohl). At no time will your entire genome be sequenced, but  
71 only variants of two specific genes. After processing, the samples will be destroyed. The Molecular  
72 Genetics Group will not receive any information about you.

## 73 Measurements before your time in the laboratory

### 74 Actimetry and sleep diary

75 You will wear an actimetry watch from 10 days before your first time in the laboratory. This is a sort  
76 of wristwatch that measures your movement and exposure to light. You will wear this for 24 hours and  
77 remove it only when swimming, showering and bathing, and during contact sports. The actimetric  
78 measurements will enable us to determine your sleep-wake cycle. In addition to the actimetry watch  
79 you will complete a sleep diary every morning on an app on your smartphone. Through this app, you  
80 will also be asked to log eating and exercise timing.

### 81 Regular sleep-wake cycle

82 From one week before your first time in the laboratory until your last visit in the laboratory you will  
83 keep to a regular sleep-wake cycle, which we will establish together with you. This cycle will be based  
84 on your usual bedtimes and getting up times. During your participation in the study, we ask that you  
85 do not change diet and exercise habits. Throughout the duration of the study, you will be asked to  
86 abstain from alcohol, nicotine and caffeine intake. On the day of the study, we ask you to abstain from  
87 painkillers, refrain from intense physical exercise, and avoid the following foods: bananas, chocolate,  
88 pineapple, orange, lemon and other citreous fruits.

## 89 Measurements during your time in the laboratory

90 Immediately prior to each laboratory visit, we confirm that you have not consumed alcohol or  
91 cannabis. We do this using a breathalyzer and a urine sample with a THC test stick. If we find  
92 evidence that you are under the influence of alcohol or cannabis, we will exclude you.

### 93 Exposure to light

94 You will spend your time in the laboratory under twilight conditions. In the two hours before your usual  
95 bedtime, you will then be subjected to a light scenario by means of virtual reality glasses.

96 **Eye movements and pupillometry**

97 The virtual reality glasses include a near-infrared camera to measure your eye movements and pupil  
98 size, which we will record during the study. The measuring technology is based on an LED, which  
99 illuminates your eye at a wavelength of approx. 850 nm and thus makes the pupil more visible for a  
100 near-infrared camera. The illuminance of the LED is very low and photometrically harmless.

101 **Body temperature**

102 Your body temperature will be measured by means of a very small temperature capsule, which has a  
103 radio connection to a receiver. You will swallow the temperature capsule and you will then excrete it  
104 within 24 to 48 hours. The temperature capsule is a disposable device, which is supplied sterile. The  
105 temperature capsule is read using a receiver device, which is accessible only to the investigators. It  
106 cannot be read with another receiver, owing to the manufacturer's configuration of the device. As the  
107 measurements will be recorded continuously, there is no need to read the pill again and it is simply  
108 excreted with your stool. The connection to the receiver device functions via RFID technology, i.e. a  
109 radio technology that allows contactless transmission.

110 The temperature capsule bears the CE marking and is harmless for you to use. This system using a  
111 temperature capsule is used routinely in research. To our knowledge, in our experience and according  
112 to the information from the manufacturer, no complications have occurred.

113 The temperature capsule is not suitable for use in MRI. You will therefore wear a wristband indicating  
114 that you cannot undergo MRI during participation in the study.

115 **Subjective assessments**

116 During the evening we will ask you to assess your sleepiness and mood on a subjective scale. During  
117 the exposure to light, we will also ask you questions about the light.

118 **EEG**

119 In some studies, we may record your brain waves by means of an electroencephalograph. This  
120 functions by means of electrodes in contact with your scalp.

121 **Saliva samples and melatonin**

122 Throughout the evening you will give a saliva sample every half hour. This will be done using a so-  
123 called salivette. For this you will take a piece of cotton wool in your mouth, which will become soaked  
124 with saliva and then be placed in a plastic tube.

125 **Risks, insurance & compensation for expenses**

126 **What are the benefits and risks?**

127 The analysis will be used for research purposes with the aim of improving our understanding of the  
128 effect of light on the brain and the body and the processing of signals in the brain. Personally, you will  
129 have no immediate advantage or benefit from participation in the study.

130 The study will have no negative impact on you. It is associated with no risks to your physical health  
131 or mental well-being. You will go to bed up to one hour later than usual, which is associated with no  
132 long-term impact.

133 Long-term wearing of the actimetry watch will have no negative impact. If your skin is irritated under  
134 the wristband, this can be countered with a simple moisturising cream.

135 Wearing the virtual reality glasses may be uncomfortable over a prolonged period. After the first half  
136 hour wearing the glasses, you will therefore have the opportunity to remove the glasses. There are  
137 no risks from the near-infrared camera in the glasses, which measures your pupil size and eye  
138 movements.

139 During the study you will be subjected to flickering light, which may seem uncomfortable. However,  
140 the flicker frequency will have no long-term impact on your vision and perception.

141 We would like to take saliva samples from you. In this case we require at least 1 ml per saliva sample.  
142 For comparison: a teaspoon holds roughly 5 ml water. The repeated chewing on cotton wool in the  
143 salivette may be uncomfortable. There will be an opportunity for you to have for a drink of water after  
144 the saliva sample.

145 The saliva samples will be handled only pseudonymously, and it will not be possible to identify  
146 individuals. Your saliva samples will be processed only by authorised personnel at the Max Planck  
147 Institute for Biological Cybernetics and the Technical University of Munich. The saliva samples will be  
148 stored securely and in locked refrigerators and freezers at all times.

149 You may find the blood sampling uncomfortable. Our ophthalmologist is experienced at blood  
150 sampling and will make the blood sampling as comfortable as possible. If you feel unwell during or  
151 after the blood sampling, we have a couch on which you can rest. In addition, we have water and fruit  
152 juice available at all times. Your blood samples will be processed only by authorised personnel at the  
153 Max Planck Institute for Biological Cybernetics, Tübingen University Hospital and the Technical  
154 University of Munich. The blood samples and genetic material will be stored securely and in locked  
155 refrigerators and freezers at all times.

### 156 **Am I insured?**

157 The Max Planck Institute for Biological Cybernetics is covered by business and product liability  
158 insurance (Basler, policy number 3184047).

### 159 **Will I receive reimbursement of expenses?**

160 You will receive reimbursement of expenses for participation in this study. You will receive € 30 for  
161 each laboratory session (4 sessions x € 30 = € 120). On completion of all study sessions, you will be  
162 eligible to receive a bonus of up to € 140 maximum, which will be allocated as follows: € 7 for each  
163 day of consistently wearing the actiwatch and adhering to the regular sleep-wake times, starting  
164 from the second day of the study (20 days x € 7 = € 140). The maximum total reimbursement is  
165 € 260.

## 166 **Data handling**

### 167 **How and for how long will my data be stored?**

168 All data collected from you will be stored and scientifically evaluated in accordance with data  
169 protection law (EU General Data Protection Regulation, German Federal Data Protection Act). Your  
170 contact data (name, address, telephone number, e-mail address etc.) and research data will be stored  
171 separately and linked together only by an individual code number. The actual research data will also  
172 be stored and linked together under this code number. During analysis the scientists will see only this  
173 code number and not your name. They will therefore not know during analysis from whom the  
174 research data originate. A link between the research data and your contact data can be established

175 only with the code number. This attribution may be made only by authorised personnel involved in the  
176 respective study. All your data will be secured in accordance with current technical standards and  
177 subject to strict access control. All staff at the Max Planck Institute for Biological Cybernetics will  
178 handle your information confidentially and have been placed under obligation to do so.

179 The data for the study will be stored at the Max Planck Institute for Biological Cybernetics and the  
180 Technical University of Munich. After a period of 12 months the code number will be deleted, so that  
181 you can no longer be identified from the research data without the use of additional information.

182 Blood and genetic material obtained from the blood will be stored at the Max Planck Institute after  
183 analysis for specific gene variants. The laboratory at UKT, which performs the analyses, will receive  
184 only the blood sample and a further, anonymised code number, which has a unique link to the code  
185 number under which the other research data are stored. This link will be visible only to the core team  
186 at MPI and TUM. Any inference of and link to other research data by UKT is therefore not possible.

187 The research data will be stored for at least 10 years, for reasons of good scientific practice  
188 established by the German Research Foundation (DFG) and the rules of the Max Planck Society. The  
189 purpose of this is for other scientists to be able to verify the accuracy of the results obtained. The  
190 samples will then be destroyed.

191 The data collected in the online screening will be deleted after exclusion and anonymized in case of  
192 inclusion.

193 The biomaterials supplied by you are provided for research purposes only. They are to be used for  
194 many different research purposes in the area of chronobiology and sleep physiology, for general  
195 scientific knowledge acquisition.

## 196 **Data transmission**

197 The research data will furthermore be transferred to a repository and submitted to a scientific journal  
198 for publication, such that the research data may be stored and used beyond the period of 10 years.  
199 Concerning this, please also read the information in the following section.

200 After completion of the data collection, it is planned that the research data will be submitted to  
201 FigShare.org, a research database operated in Great Britain, for archiving and further scientific use.  
202 Other scientists will therefore also be able to analyse the data for other scientific questions. Only  
203 anonymised data will be used here. As there will no longer be any personal link, it will no longer be  
204 possible to delete your research data from the data sets.

205 Your contact data will be used only within the Max Planck Institute for Biological Cybernetics and the  
206 Technical University of Munich. We will transmit only research data and no contact data to external  
207 scientists without your consent. Individual participants will no longer be identifiable here. For the  
208 external scientists it will not be possible to identify you from your research data, which will be  
209 transmitted only in anonymised form.

## 210 Data transfer

211 **The study is a collaborative project with the Technical University of**  
212 **Munich. The research data collected in the project will be exchanged and**  
213 **analysed only within the framework of the research project. Contact data**  
214 **and data collected in the telephone screening before inclusion or**  
215 **exclusion will not be transmitted. How will the results be published?**

216 The results of the study will be published only with no direct personal link and may also be used for  
217 teaching. In the case of publication of study results your identity will remain confidential. This means:  
218 it will not be possible to identify from the results which person provided the information, nor will your  
219 participation in an investigation be identifiable from the research data.

220 It is planned that the results will be published in scientific journals, which also require storage of the  
221 underlying research data. The purpose of this is for other scientists to be able to verify the results.  
222 Associated research data may therefore be submitted to the journals and published there without  
223 names and contact data. Please note that these scientific data will consequently be available  
224 worldwide.

## 225 Receiving your results

226 In the consent form, you will be offered the option to receive a summary of some of your individual  
227 results collected throughout the study. This summary will be delivered to you in person after  
228 completion of the study, and will contain no personal identifying information. The following data will  
229 be included in the summary:

- 230 - Your daily activity, rest and light exposure throughout the duration of the study.
- 231 - Your self-reported sleep, wake and food intake times.
- 232 - Your average reaction time during each of the evening laboratory visits.
- 233 - Your body temperature during each of the evening laboratory visits.
- 234 - Your self-reported sleepiness during each of the evening laboratory visits.

235 These results are only relevant for research purposes and do not constitute a clinical report or  
236 diagnosis. None of the data included in this summary is expected to have clinical significance.

237 It is possible that during the visual screening tests, there might be incidental findings that could be of  
238 high significance to your health. You will be asked in a separate consent form whether you wish to  
239 receive feedback in such a case. Please note that no individual diagnosis will be made for you and  
240 discoveries/findings may also be overlooked.

241

## 242 Voluntary nature

243 Participation in the study is voluntary and you have the option to terminate your involvement at any  
244 time without giving reasons, with no negative consequences for you. You can terminate it at any  
245 time and with no disadvantage to you, even if investigations have already begun.

246 At any time, you may revoke your consent to the data processing described, with effect for the  
247 future.

248 **Do you have any further questions?**

249 If you have any further questions about the procedure of the study, data protection, your rights etc.,  
250 please contact the study team.

251 We would be grateful if you would agree to participate in this study. If you have any further  
252 questions, please do not hesitate to contact us.

253 With our sincere thanks and best regards

254

255 *Manuel Spitschan*

256 Prof Dr Manuel Spitschan and the study team



257 **Consents (1/4)**

258 **Declaration of consent to participation in the study**

- 259 1. I have been informed about the study “Investigations into the effect of light on human physiology  
 260 and cognition”, its course, significance, scope and risks, and I have read and understood the  
 261 study information.
- 262 2. I have had the opportunity to clarify all open questions.
- 263 3. I have the right to request further information about the study at any time.
- 264 4. I voluntarily agree to participate in the study described in the study information.
- 265 5. I have been informed that I may withdraw from this study at any time without incurring any  
 266 disadvantage.

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Title, forename, surname (please use block letters)

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Date of birth

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Location	Date	Signature
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267

268

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Location	Date	Signature of the study assistant
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269

270 **Consents (2/4)**

271 **Declaration of consent under data protection law: online screening**

272

273 Note: The following declaration of consent to the online screening will be obtained via a webform,  
274 before the start of screening questionnaires.

275 1. I have been informed about the study “Investigations into the effect of light on human physiology  
276 and cognition”, its course, significance, scope and risks, and I have read and understood the  
277 study information.

278 2. I voluntarily agree to participate in the online screening described in the study information.

279 3. I have read and understood the study information.

280 4. I have been informed that my consent is voluntary and that I may withdraw it at any time for the  
281 future. I have also been informed about my further rights to information, correction, erasure, the  
282 possibility of data portability, and complaint and contact options.

283 5. I consent to the collection, processing and analysis of my data by the Max Planck Institute for  
284 Biological Cybernetics and the Technical University of Munich.

285 6. The data may be collected by the Max Planck Institute for Biological Cybernetics and the Technical  
286 University of Munich within the framework of scientific research to determine suitability for further  
287 participation in the study. In accordance with this statement the data from the telephone screening  
288 will be deleted and not linked with the data collected subsequently.

289 7. I have been informed that I may revoke my consents at any time with effect for the future.

290  Yes  No

291

292 **Location, date**

293

294 **Consents (3/4)**

295 **Declaration of consent under data protection law: screening and main study**

- 296
- 297 1. I have read and understood the study information.
- 298 2. I have been informed that my consent is voluntary and that I may withdraw it at any time for the
- 299 future. I have also been informed about my further rights to information, correction, erasure, the
- 300 possibility of data portability, and complaint and contact options.
- 301 3. I consent to the collection, processing and analysis of my data by the Max Planck Institute for
- 302 Biological Cybernetics and the Technical University of Munich.
- 303 4. The data may be used by the Max Planck Institute for Biological Cybernetics and the Technical
- 304 University of Munich for the outlined purpose within the framework of scientific research.
- 305 5. I consent to the storage of research data without mention of my name for the publication of
- 306 research results in scientific journals for review (re-analysis).
- 307 6. I consent to the analysis of my collected research data, as described in the study information,
- 308 within the Max Planck Institute for Biological Cybernetics and the Technical University of Munich
- 309 for scientific purposes for related questions.
- 310  Yes  No
- 311 7. I consent to the availability of my anonymised research data in FigShare.org, as described in the
- 312 study information, for scientific analysis even after completion of the study.
- 313  Yes  No
- 314 8. I consent to the amalgamation and analysis of research data from this study with other research
- 315 data collected at the Max Planck Institute for Biological Cybernetics and the Technical University
- 316 of Munich.
- 317  Yes  No
- 318
- 319 9. I have been informed that I may revoke my consents at any time with effect for the future.
- 320
- 321 10. I wish to receive a summary of some my individual results, which will be delivered in person after
- 322 completion of the study. I understand that these results are only relevant for research purposes,
- 323 and do not constitute a clinical report or diagnosis.
- 324  Yes  No

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Forename, surname (please use block letters)

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Location

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Date

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Signature

325

326 **Consents (4/4)**

327 **Declaration of consent for random findings**

328

329 In individual cases it is possible a researcher may conclude that an analysis result during the eye  
330 screening is of significant importance for your health. This is true particularly if it gives rise to strong  
331 suspicion of a serious, possibly previously undetected illness, which could be treated or the onset of  
332 which could be prevented. In such a case you may receive feedback.

333 **If you do not wish to receive feedback, please delete the option to be contacted again.** By  
334 notifying us, you can change your decision for or against the feedback option at any time. Please note  
335 that you may have to disclose to other bodies the health information obtained through such feedback  
336 (e.g. before taking out health or life insurance) and you may incur disadvantages as a result.

337 Please note that no individual diagnosis will be made for you and discoveries/findings may also be  
338 overlooked.

339 I consent to you contacting me to inform me of any random findings.

340  Yes  No

341

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Forename, surname (please use block letters)

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Location

Date

Signature

342

343 **Information on data collection in accordance with article 13 of the General**  
344 **Data Protection Regulation (GDPR)**

345

346 **Responsibility for this**

347 Institution responsible: Max-Planck-Institut für biologische Kybernetik, Max-Planck-Ring 8-14,  
348 72076 Tübingen, Germany

349 Contact: Prof Dr Manuel Spitschan. Telephone: +49 (0)7071 601-1670. E-mail:  
350 [manuel.spitschan@tuebingen.mpg.de](mailto:manuel.spitschan@tuebingen.mpg.de).

351 Legal responsibility lies with the Max Planck Society for the Advancement of Science: Max-Planck-  
352 Gesellschaft zur Förderung der Wissenschaften e.V. (MPG), Hofgartenstraße 8, 80539 Munich,  
353 Germany. Telephone: +49 (0)89 2108-0.

354 **Data Protection Officer contact data**

355 Your contact at the Max Planck Institute for Biological Cybernetics: Mihai Vintiloiu, Max-Planck-Institut  
356 für biologische Kybernetik, Max-Planck-Ring 8-14, 72076 Tübingen, Germany. Telephone: +49  
357 (0)7071 601-909. E-mail: [mihai.vintiloiu@tuebingen.mpg.de](mailto:mihai.vintiloiu@tuebingen.mpg.de).

358 MPG Data Protection Officer: Heidi Schuster, Hofgartenstraße 8, 80539 Munich, Germany.  
359 Telephone: +49 (0)89 2108-1554. E-mail: [datenschutz@mpg.de](mailto:datenschutz@mpg.de).

360 **Purposes of data processing**

361 The data will be collected for implementation of the research project “Investigations into the effect of  
362 light on human physiology and cognition” and for the purposes described in the study information.

363 Your data required for accounting purposes owing to payment for the reimbursement of expenses will  
364 be processed separately from the data for research purposes.

365 **Legal basis of data processing**

366 The legal basis for the processing of your data for research purposes is your consent in accordance  
367 with art. 6 par. 1 letter a and/or art. 9 par. 2 letter a GDPR.

368 The mandatory requirements of the German Fiscal Code form the legal basis for the processing of  
369 your data for accounting purposes.

370 **Recipients or categories of recipients**

371 The data will be transmitted as described in the study description. External service providers may be  
372 commissioned to perform subtasks.

373 **Storage duration**

374 The data for research purposes will be stored for the duration stated in the study description. Research  
375 data must be stored for at least 10 years for reasons of good scientific practice of the German  
376 Research Foundation and in accordance with the rules of the Max Planck Society.

377 The data for accounting purposes will be kept for 10 years.

## 378 **Your rights**

379 You are not obliged to provide your data. At any time and without negative consequences you may  
380 revoke your consent to the storage of your contact data with effect for the future. You may also revoke  
381 your consent to the use of your research data at any time, without stating reasons and without negative  
382 consequences for you for the future and you may request the deletion of research data. We will comply  
383 with your request for deletion in accordance with the statutory requirements. In the case of revocation,  
384 if permitted by the statutory requirements, you can decide whether your data and biomaterials should  
385 be destroyed or may be used for other scientific purposes without the possibility of attribution to your  
386 name or contact data. In this case we would delete the identification code from which it is possible to  
387 determine the person from whom the data or samples originate. Please note that your research data  
388 can no longer be attributed to you personally after deletion of the code number from the contact data.  
389 If you revoke consent to the storage of your contact data, attribution of the study data will no longer  
390 be possible.

391 Your data cannot be removed from analyses already performed. To the extent permitted by law you  
392 still have the right to obtain information about the personal data held by us and its disclosure to third  
393 parties and you have the right to correction, erasure or restriction of the processing of personal data  
394 relating to you.

395 You also have the right to contact the regulatory authority for data protection: The authority  
396 responsible for the Max Planck Society is the Bavarian State Office for Data Protection Supervision:  
397 Bayerisches Landesamt für Datenschutzaufsicht, Postfach 606, 91511 Ansbach, Germany.

## 398 **Study contact number**

399 You can give notice of changes to your contact data here. You can also clarify questions about the  
400 participation or object to your participation in “Investigations into the effect of light on human  
401 physiology and cognition” for the future and assert rights to erasure, revocation and information with:  
402 Prof Dr Manuel Spitschan, Max-Planck-Institut für biologische Kybernetik, Max-Planck-Ring 8-14,  
403 72076 Tübingen, Germany. Telephone: +49 (0)7071 601-1670. E-mail:  
404 [manuel.spitschan@tuebingen.mpg.de](mailto:manuel.spitschan@tuebingen.mpg.de).