

INFORMATION FOR RESEARCH PARTICIPANTS

SHORT TITLE OF RESEARCH PROJECT: Human-Mosquito Interaction Project (H-MIP)

FULL TITLE OF RESEARCH PROJECT: Human-Mosquito Interaction Project: Host-vector networks, mobility, and the socio-ecological context of mosquito-borne disease

RESEARCHER: John Palmer, Department of Political and Social Sciences, Pompeu Fabra University, Ramon Trias Fargas, 25-27 08005 Barcelona, Spain, +34-93-542-2346 (office), john.palmer@upf.edu

FUNDING BODY: European Research Council

DURATION: 5 years (April 2020 through April 2024)

The Human-Mosquito Interaction Project (H-MIP) is an academic study about the mosquitoes that bite you – and, particularly, about mosquitoes that can carry disease like dengue and Zika. The goal of the project is to better understand the interactions between humans and mosquitoes so that public health authorities can better reduce the risk of these types of diseases. We are particularly interested in learning where and when you tend to be bitten by mosquitoes and how often. If you are at least 18 years old, you may participate in any of the following components:

- Component 1: Installing and running an app on your phone that will track your movement patterns and allow you to record the places where you are bitten by tiger mosquitoes. You will be able to turn location tracking on and off as you choose. Data from the application will be sent to the research server using end-to-end encryption and you will have the option of deleting it from your phone and from the server after it has been transmitted. Your data will be stored securely and analyzed only by members of the research team. It will be securely deleted on or before 1 January 2027. The app is mostly self-explanatory, but a member of the research team will be available to show you how to use it and answer any questions. You can also direct any questions to the project coordinator, Dr. John Palmer, by phone at 93-542-2346 (office) or by email at john.palmer@upf.edu.
- Component 2: Providing a small DNA sample by gently rubbing the inside of your cheek with a something like a Q-Tip or by spitting into a tube. This is something that you will be

able to do yourself. It is not dangerous and should not cause discomfort, but if it does, or if you change your mind, you understand that you are free to stop at any time. If you volunteer to provide your DNA in this way, it will be analyzed only to the extent necessary to determine if you have been bitten by any mosquito that the research team has sampled. The analysis will also provide the researchers with information about your sex, but no additional information will be taken from your DNA. Your DNA will be stored securely during the project and destroyed once it has been analyzed. All digital records containing sequences taken from this DNA will be securely stored and deleted on or before 1 January 2027. A member of the research team will show you how to take the sample and will answer any questions. You can also direct any questions to the project coordinator, Dr. John Palmer, by phone at 93-542-2346 (office) or by email at john.palmer@upf.edu.

- Component 3: Allowing researchers to collect mosquitoes from in or around your home. This may be done using an entomological aspirator (which is like a vacuum cleaner) or with small traps in which mosquitoes get stuck. You will have full control over when and where on your property this collection is done and you are free to stop the collection at any time. If you agree to let the researchers leave traps on your property, you will also need to agree not to disturb or damage these traps, and to let them collect them at a later time. A member of the research team will be available to answer any questions you have and will inform you of the number of mosquitoes collected. You can also direct any questions to the project coordinator, Dr. John Palmer, by phone at 93-542-2346 (office) or by email at john.palmer@upf.edu.
- Component 4: Volunteering to be interviewed by researchers. The interview will focus on things like on your experiences of being bitten by mosquitoes, the places where you may be exposed to mosquitoes, and how you deal with containers of water in which mosquitoes may be laying eggs around your home and other places you spend your time. If you are interviewed, you have no obligation to answer any or all of the questions and you may stop the interview at any time. Notes will be taken by the researcher during the interview and any notes that contain personally identifying information will be stored securely and destroyed on or before 1 January 2027. No personally identifying information from the interviews will be made public or shared with anyone outside the research team. You may address any questions you have to the interviewer or to the project coordinator, Dr. John

Palmer, by phone at 93-542-2346 (office) or by email at john.palmer@upf.edu.

- Component 5: Letting researchers accompany you during some part of your day in order to observe your behavior and your interactions with mosquitoes. Our interest, again, is in understanding where and when you tend to be bitten. You will be able to choose exactly at what times and in which places you will be accompanied and will be able to end this participation at any point you choose. The researcher who accompanies you will take notes and will discuss these with other members of the research team as well as with you. The focus of the observations is not on information that might be used to identify you personally and it is not anticipated that such information will be in the notes. Any notes that do contain personally identifying information will be securely stored and deleted on or before 1 January 2027. You may address any questions you have to the research team member doing the observations or to the project coordinator, Dr. John Palmer, by phone at 93-542-2346 (office) or by email at john.palmer@upf.edu.

You can participate in whichever parts of the study you would like to, and you will not be penalized in any way if you choose to stop participating at any time and for any reason.

Any personally identifying information you provide will be protected using strong encryption and it will be kept confidential. The only people with access to it will be the research team, and only anonymized results will be shared beyond this team.

It is not expected that anything you will be asked to do while participating in this project will pose a risk to your health. However, it is very important that you not interact with your mobile phone while driving or engaged in any activity that requires your attention. Using a mobile phone while driving can increase your risk of injury or death and to participate in the mobile phone component of this project, you must agree not to interact with the application or otherwise interact with your phone for this project while driving.

If you participate in the study, you will be contributing to the fight against mosquito-borne diseases. You will also be able to learn more about your own movement patterns and your own interactions with mosquitoes. However, you will not receive any material compensation for your participation.

If you have any questions, please visit the project website at <http://h-mip.com> or contact:

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In accordance with the General Data Protection Regulation (GDPR) 2016/679 (EU), we provide the following information:

Data controller: Universitat Pompeu Fabra. Pl. de la Mercè, 10-12. 08002 Barcelona. Tel. +34 93 542 20 00. You can contact UPF's Data Protection officer by sending an email to dpd@upf.edu.

Purposes of the processing: Carrying out the above-mentioned research project. Personal data will be kept during the execution of the project and for two more years after its conclusion for scientific validation.

Legal basis: Data owner's consent. You can withdraw your consent at any time.

Recipients: Your personal data will be processed by Universitat Pompeu Fabra and the Center for Advanced Studies of Blanes (CEAB-CSIC). Data may be anonymized and published in an open science repository.

Rights: You can access your data; request their rectification, deletion, and in certain cases their portability; you may object to their processing and apply for their limitation by following the procedures described at www.upf.edu/web/proteccio-dades/drets. You can contact UPF's Data Protection officer (dpd@upf.edu) for any queries or if you feel that your rights are not properly respected. Should you not be satisfied, you may file a complaint with the Catalan Data Protection Authority.

INFORMED CONSENT for participation in the Human-Mosquito Interaction Project (Host-vector networks, mobility, and the socio-ecological context of mosquito-borne disease).

I agree to participate in this research project, which is coordinated by Dr. John Palmer at Pompeu Fabra University (UPF) and carried out by researchers at UPF and the Center for Advanced Studies of Blanes (CEAB-CSIC).

1. My participation in this project is voluntary. I understand that I will not be paid for my participation. I may withdraw and discontinue participation at any time without penalty. If I feel uncomfortable in any way while participating, I have the right to limit or end my participation, including by declining to answer any question or to provide any other information.
2. This study involves five components and I am free to give my consent to participate in any or all of them. Participation in each component entails the following:
 - Component 1: Installing and running an app on my phone that will track my movement patterns and allows me to record the places where I am bitten by tiger mosquitoes. I understand that I will be able to turn location tracking on and off as I choose. Data from the application will be sent to the research server using end-to-end encryption and I will have the option of deleting it from my phone and from the server after it has been transmitted. My data will be stored securely and analyzed only by members of the research team. It will be securely deleted on or before 1 January 2027.
 - Component 2: Providing a small DNA sample by gently rubbing the inside of my cheek with a buccal swab (sort of like a Q-Tip) or spitting into a tube. This is something that I will be able to do myself. It is not dangerous and should not cause discomfort, but if it does, or if I change my mind I understand that I am free to stop and withdraw from this component. If I volunteer to provide my DNA in this way, it will be analyzed only to the extent necessary to determine if I have been bitten by any mosquito that the research team has sampled. The analysis will also provide the researchers with information about my sex, but no additional information will be taken from my DNA. My DNA will be stored securely during the project and destroyed once it has been analyzed. All digital records containing sequences taken from this DNA will be securely stored and deleted on or before 1 January 2027
 - Component 3: Allowing researchers to collect mosquitoes from in or around my home. This may be done using an entomological aspirator (which is like a vacuum cleaner) or with small traps. I will have full control over when and where on my property this collection is done and I am free to stop the collection at any time. If I agree to let the researchers leave traps on my property, I also agree not to disturb or

damage these traps, and to let them collect them at a later time.

- Component 4: Volunteering to be interviewed by researchers. I understand that if I am interviewed, I have no obligation to answer any or all of the questions and that I may stop the interview at any time. Notes will be taken by the researcher during the interview and any notes that contain personally identifying information will be stored securely and destroyed on or before 1 January 2027. No personally identifying information from the interviews will be made public or shared with anyone outside the research team.
- Component 5: Letting researchers accompany me during some part of my day in order to observe my behavior and my interactions with mosquitoes. I will be able to choose exactly at what times and in which places I will be accompanied and will be able to end this participation at any point I choose. The researcher who accompanies me will take notes and will discuss these with other members of the research team as well as with you. The focus of the observations is not on information that might be used to identify me personally and it is not anticipated that such information will be in the notes. Any notes that do contain personally identifying information will be securely stored and deleted on or before 1 January 2027.

3. My confidentiality as a participant in this study will remain secure at all times. My real name will not be used and data will be subjected to the data protection policy of Pompeu Fabra University, which protects the personal data (and the anonymity) of individuals.
4. For ethical problems or any other question regarding the research project, I can contact the interviewer or the project coordinator, Dr. John Palmer (see contact-details below).
5. I have read and understood the information provided to me in this form. I have had all my questions answered to my satisfaction, and I voluntarily agree to participate in the components of this study indicated below.

Component	Consent?
1. Movement tracking	Yes / No
2. DNA analysis	Yes / No
3. Mosquito collection on property	Yes / No
4. Interviews	Yes / No
5. Participant observation	Yes / No

6. I have been given a copy of this consent form.

Date of signature: _____

Participant name: _____

Participant signature: _____

Interviewer's name: _____

Interviewer's signature: _____

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