

Consent Form

Protocol Title: Personal Genome Project
Principal Investigator: George M. Church, Ph.D.
Site-Responsible Investigator's Institution: Harvard Medical School
Description of Volunteer Population: We are seeking a diverse range of volunteers from as varied a set of genetic, social and environmental backgrounds as possible. Volunteers must be willing to make their genetic and other human trait information publicly available and be knowledgeable about genetics, human subjects research and the benefits and risks of participation in a public genomics research study of this nature.

What is Informed Consent?

Informed consent means you understand the procedures, risks, possible benefits, and alternatives before you voluntarily agree to participate in a research study. Before you elect to participate, you need to understand if or how this study may affect you and your family. This form, along with other study documents available on the study website (<http://pgp.med.harvard.edu/>) (the “website”), is intended to help you make an informed decision about your participation in this study. The PGP website will be revised as needed, possibly on a frequent basis, and participants and prospective participants should check the website regularly to obtain the most current information about this study.

Why have you been asked to participate in this research study?

You have been invited to participate because you are an individual 18 years of age or older and your performance on the entrance exam indicates that you are able to give informed consent for this public and open-ended study. This study (the “Personal Genome Project,” the “PGP,” or the “study”) is being conducted by researchers at Harvard Medical School specifically for citizens and permanent residents of the United States. International activities are coordinated by Open Humans Foundation, an independent 501(c)(3) charitable organization that was created to support the PGP.

About this Informed Consent Document

This document is long, but we want you to read through it so that you understand what it will mean for you to participate in the study. The table of contents that follows is designed to help you more easily understand this consent form.

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GLOSSARY

Biospecimen: biological materials taken from participants. These include, but are not limited to DNA and RNA; cells or tissue including buccal swabs or punch biopsies; bodily products such as hair, saliva, urine or feces, blood and blood fractions such as serum or plasma

Cell Line: a living population of cells descended from a single cell and containing the same genetic makeup

Study Data or data: all information or biospecimens collected by PGP after a participant signs the consent form and is enrolled in the study is considered study data. Study data may include, but is not limited to, biospecimens (e.g., DNA and RNA; cells or tissue including buccal swabs or punch biopsies; bodily products such as hair, saliva, urine or feces, blood and blood fractions such as serum or plasma) and the information derived from those biospecimens (e.g., human DNA sequence, gene expression, associated microbial sequence data and other molecular traits), and other human trait information (e.g., medical information, physical traits, race/ethnicity/ancestry).

Biobank: a collection of biospecimens and associated data stored primarily for research purposes.

Biorepository: cell culture and storage facility where your cells will be expanded in number using cell culture, stored in liquid nitrogen, and shipped to authorized researchers or other parties.

ARTICLE I. PURPOSE

The Personal Genome Project is a new form of public genomics research. The main scientific goal of this study is to find ways to connect human genetic information (e.g., human DNA sequence, gene expression, associated microbial sequence data and other molecular traits) with human trait information (e.g., medical information, biospecimens and physical traits) in a public way so that such data may be used for research and other scientific, patient care and commercial purposes worldwide. Additional goals include (1) exploring the opportunities, impacts and risks of public genomics research such as the PGP; (2) developing a public dataset of information from willing participants to aid in the development of analytical tools for scientists, clinicians and individuals; and (3) educating participants and the general public about the potential benefits, risks, and uncertainties posed by the widespread availability of genetic and related information. The PGP also seeks to develop a model system for experts on health care, molecular biology, genetic counseling, public health, law, education, and research to come together and collaborate. We hope that the PGP's proposed datasets will help to extend such discussions to the creation of case studies and to find out what individuals, clinicians, and researchers might want or not want in such datasets, and why.

ARTICLE II. OVERVIEW

The PGP will collect biospecimens (biological material) and personal and trait information from each participant. Biospecimens include, but are not limited to DNA and RNA; cells or tissue including buccal swabs or punch biopsies; bodily products such as hair, saliva, urine or feces, blood and blood fractions such as serum or plasma. If you choose to participate in the study, your genetic and trait information will be made available through a publicly accessible website and database, according to the procedures described below.

If you decide to participate, you will receive certain research data from the PGP (further described below). Any data or other information that you receive due to your participation in the study, including DNA sequence data, is not intended to replace in any way professional medical advice, diagnosis or treatment. You may not use any information you receive from the PGP for any medical or clinical purpose unless the relevant DNA sequence or other data, including any preliminary research interpretations or findings are first confirmed by a licensed healthcare professional.

We expect to enroll 100,000 participants in this study, although the pace at which we expand the study to large numbers of enrollees is unknown.

Participation in this study is voluntary. You do not have to participate in the PGP. You may withdraw from participating in this study at any time, as more fully described in this consent form.

ARTICLE III. DURATION OF THE STUDY AND YOUR PARTICIPATION

3.1 Participation vs. Enrollment. You will be considered a participant of the PGP study from the time that you sign this consent form and submit it to the PGP. Signing and submitting this consent form *does not* guarantee your full enrollment in the PGP. Although signing the consent form means that you are a participant in the PGP, your enrollment in the study is contingent upon your completion of certain procedures requested by the PGP (described below), the availability of resources, and any other concerns that the PGP may have and shares with you.

3.2 Length of Your Participation. Your enrollment and participation in this project may continue indefinitely. Enrollment and participation are entirely voluntary, and you may refuse to continue participating and/or withdraw from this study at any time. Unless you choose to withdraw your data as described below in Article X, your study data may continue to be analyzed by the PGP and included in the PGP dataset for the duration of the study.

3.3 Length of the Study. The process of analyzing your study data may continue indefinitely, unless you choose to withdraw or are removed from the PGP. Cell lines, biospecimens and the public version of your genetic, trait, and other data may be maintained continually (if Harvard Medical School approves the continuation of the study), unless you request their removal in writing as described below in Article X.

3.4 Revisions to this Informed Consent Agreement. The PGP expects that, due to the nature of this study, this informed consent document will be revised at periodic intervals, as

required by the Institutional Review Board. Once the Institutional Review Board has reviewed and approved a revised informed consent agreement for this study, each participant in the study will be asked to review the revised agreement. Participants who review and electronically sign the revised agreement will continue their participation in the PGP without interruption. Participants who are unable or refuse to review or to sign the revised informed consent agreement will have their PGP participant accounts deactivated (as described in Section 10.5) until such time as they have reviewed and signed the current version of the informed consent agreement.

ARTICLE IV. PRE-ENROLLMENT PROCEDURES

4.1 Naming Your Proxy. Before you enroll in the study you will be asked to name one or more people (next of kin or other trusted individual) to be your proxy only for purposes of this study (your “Designated Proxy”). In the event that you should die or become mentally incapacitated during the course of your participation in the PGP, your Designated Proxy will have the authority to decide to either (a) remove your cell lines and/or data from the study (subject to the limitations on removal described in this consent form); (b) allow the PGP to maintain your cell lines and/or other biospecimens and data for continued use in accordance with this consent form; or (c) authorize the PGP to obtain and add additional data, such as cause of death and/or biospecimens obtained during an autopsy, to the study on your behalf. You are strongly encouraged to discuss your wishes with your family and your Designated Proxy as part of your enrollment in the PGP.

4.2 Identity Verification.

(a) *Identity Verification Process*. The PGP may ask you to provide your mailing address (where any pre-enrollment and enrollment materials and/or biospecimen collection kits will be sent) and may ask you to take steps to verify your identity, including by asking you to respond to questions about your identity based on information available in public data records.

(b) *Additional Verification Steps*. The PGP may attempt to verify your identity at various times throughout the duration of the project. If we are unable to verify your identity, we may request that you send additional information to the PGP by mail, phone, fax, and/or online. If we are still unable to verify your identity, you will be notified that (i) you must visit a designated location, such as a medical center, for identity verification or (ii) your account is deactivated until your identity is verified.

4.3 Identical (Monozygotic) Twin. If you have any living siblings who are your identical (monozygotic) twin, such sibling(s) will also need to provide consent for your participation in this research study before the PGP will consider you for enrollment and participation.

Do you have a living identical (monozygotic) twin? Yes No Unsure

4.4 Recontact. Other than the Safety Questionnaires described below, you are under no obligation to receive study notices or to participate in the study after providing the biospecimens and/or the information described in Article V of this consent form. If you choose

YES to the question below, you may be contacted by the PGP at a future date and asked if you would like to (i) voluntarily submit additional biospecimens and/or trait or other information or (ii) participate in future research studies or other activities coordinated by the PGP. You may change your choice on this option at any time by notifying the PGP in writing.

Willing to be recontacted? Yes No

4.5 Application for Enrollment.

(a) *Completion of Application.* After you complete the pre-enrollment activities, your application for enrollment will be considered by the PGP.

(b) *Notification of Enrollment Decision.* You will then be notified that you are either: (i) enrolled; (ii) requested to provide additional information to complete your enrollment application; (iii) waitlisted; or (iv) rejected.

ARTICLE V. ONGOING PARTICIPATION FOLLOWING ENROLLMENT

5.1 Collection and Publication of Trait Data.

(a) *Trait Data.* You will be asked to collect baseline trait data about yourself, including: date of birth, medications, allergies, vaccines, personal medical history, race/ethnicity/ancestry, and vital signs (e.g. height, weight, blood pressure). The full list of personal information may be found on the project website (<http://pgp.med.harvard.edu/how-it-works/>). Your trait data, along with any other information that you voluntarily submit to the PGP, will be made available on the PGP's public website and database. If you so choose, you may also explicitly provide your real name to be part of your public profile.

(b) *How Trait Data are Collected.* You will submit your trait data through an electronic health record platform and/or other online trait collection platforms that the PGP will designate from time to time. Initially, collecting and submitting the baseline trait data will take an estimated 1-3 hours, and you may elect or be requested by the PGP to update or to supplement this data in the future. You will not be compensated for any lost time.

(c) *Additional Information Constitute Trait Data.* Additional personal data (e.g. existing DNA sequencing or genotyping data) and trait information may also be requested by the PGP, such as a facial photograph, family medical history (e.g. data entered using tools such as those provided by the US Surgeon General (<http://hhs.gov/familyhistory>) that aid in the assessment of heritability of traits) or lifestyle traits. Any such information that you submit will constitute trait data and will be made available on the PGP's public website and database.

(d) *No Obligation.* As a participant in the PGP you are under no obligation to provide any of your trait data to the PGP. However, you may not be able to participate in other aspects of the project, including sample collection and DNA analysis, until you supply such trait data for publication on the PGP's public website and database.

(e) If you choose to provide your trait data to the PGP, they will be made available to the public through the PGP's website and database, and will be combined with

your other data and biospecimens provided by the PGP or by you. There may be risks to you associated with the publication of this information. Those risks are described in Section 6.1 of this consent form.

5.2 Biospecimen Collection.

(a) *How Collected Biospecimens May Be Used.* Biospecimens submitted to the PGP may be used for a range of scientific and/or commercial purposes, including (i) the study of biological characteristics, including DNA, RNA (gene expression), physical traits, biochemical traits, and the presence and characteristics of micro-organisms and viruses in the specimen; (ii) creation of cell lines, which are cells with the ability to divide for indefinite periods and to give rise to specialized cells; and (iii) transformation into somatic cell-derived stem cells (i.e., induced pluripotent stem cells or iPS cells). Any biospecimens you provide may be analyzed or otherwise incorporated into the project. The results may be made publicly available by the PGP via the public website and database and associated with your previously published data.

(b) *Self-administered Biospecimen Collection.* You may be sent materials pertaining to at-home biospecimen collection. These may include a saliva collection kit, a hair collection kit, skin swabs and/or other specimen collection kits that you may self-administer as directed by the PGP. The PGP will provide specimen collection materials, including instructions and mailing packages.

Description of Certain Biospecimen Collection Materials:

(i) The saliva sample collection kit may be self-administered and typically requires you to provide 2-4 milliliters of your saliva.

(ii) The hair sample collection kit may be self-administered and typically requires 1-5 hairs to be plucked from your body.

(iii) The skin swab kits may be self-administered and typically requires you to lightly rub a body site (e.g. palm of hand or forehead) with a cotton swab dipped in saline solution.

(c) *Biospecimen Collection by a Trained Professional.* You may be invited to provide additional biospecimens as approved by the project and an Institutional Review Board. For example, the PGP may offer you the ability to have a trained professional come to your home or other convenient location, or you may be asked to visit a designated medical center or other specimen collection site. The PGP will provide you with additional information about any such specimen collection opportunity. These samples will likely be collected through either (i) a skin biopsy procedure and/or (ii) a blood draw. If you consent, these procedures will be performed by trained professionals appointed by the PGP.

Description of Certain Biospecimen Sample Collection Procedures:

(i) A skin punch biopsy (about 3mm in diameter) is collected from the underside of the upper arm or hip and requires local anesthesia. Anesthetic cream is applied and covered with a bandage for 45-60 minutes. The anesthetic cream is then

wiped off and the area sterilized with alcohol swabs. A 3-5mm skin biopsy is obtained. A bandage and antibiotic ointment is applied after the procedure.

(ii) A blood sample is collected from a vein in your arm and requires a minimum of 5 ml of blood.

(iii) The skin cells (i.e., fibroblasts) or blood that you provide may be used to create a living biosample known as a cell line. Cell lines provide a renewable supply of your cells and DNA. The PGP is unable to make any guarantees about the timeline or likelihood of success of cell line creation.

(d) *Other Biospecimen Collection.* Additional biospecimens, such as inner cheek swabs, skin swabs, hair samples, saliva samples, urine samples and/or fecal samples, may be requested by the PGP and submitted by you on a voluntary basis.

(e) *No Obligation.* As a participant in the Personal Genome Project you are under no obligation to submit any biospecimen to the study as described above. However, you may not be able to participate in certain aspects of the project (e.g., cell line creation, DNA or other biological analysis) until you have submitted biospecimens.

(f) *In Person Interview.* As part of or separately from any specimen collection procedure, you may also be asked to consult with a member of the PGP staff either in-person or remotely to confirm that you are familiar with the study protocol, including this consent form, and to review and confirm your identity and the accuracy of your supplied data. The length of the interview may vary, although the PGP expects that most interviews will take approximately 1 hour or less (excluding wait or travel time).

(g) *Costs Incurred Are Not Reimbursed.* The PGP will not reimburse you for any costs you may incur in conjunction with your enrollment or participation in this project, including any costs associated with specimen or data collection or submission, the PGP consultation or any other aspect of enrollment or participation. Costs that you might incur due to specimen or data collection or submission or due to other aspects of enrollment and participation in the PGP include, but are not limited to, (i) costs (tolls, gas, airfare, food, etc.) associated with travel to or from a specimen collection or other study site, such as a medical center (ii) the loss of personal time and (iii) costs associated with your health or medical care (for more please see Section 6.3(d) of this consent form). You will not be paid or reimbursed for these or for any other costs associated with your enrollment or participation in this study.

5.3 Biospecimen Analysis.

(a) *How Analysis is Performed.* Analysis will be performed by the PGP on the biospecimens you provide and/or the cell lines and/or data created from such samples. PGP will determine the kinds of research and analysis to be conducted, such as DNA sequencing, the study of biological characteristics, including DNA, RNA (gene expression), physical traits, biochemical traits, and the presence and characteristics of micro-organisms and viruses in the biospecimens.

(b) *No Guarantees.* The PGP cannot make any guarantees about the accuracy or completeness of any such analysis or research or the processing time for any of these activities.

5.4 Return and Publication of Raw Data.

(a) *Receipt of Your Raw Data.* Once the PGP has processed the raw data (e.g. genome sequence) for your biospecimen(s), the PGP will make it available to you via a password protected area on the PGP website. The PGP will also provide resources for analysis of the raw data by the PGP and/or one or more third parties to produce a preliminary analysis report. Such a preliminary analysis report may contain a non-comprehensive list of genetic variants present in your DNA sequence data that are potentially significant. This information is intended to help you make a more informed decision about publicly releasing your data. Preliminary reports are for personal information purposes only. You may not use this data for any medical or clinical purpose unless the data are first confirmed by a licensed healthcare professional. You can find examples of data similar to what you may receive as an enrollee on the study website.

(b) *Publication of Raw Data.* Thirty-one (31) days after you are notified of your raw data availability, or at your option immediately, these data (and, if provided, any preliminary analysis report of that raw data provided by the PGP) will be made available on the PGP's public website and database and thus publicly associated with your trait data along with any other data supplied by you or the PGP. During this 31-day period you may choose to withdraw from the study and your unpublished raw data and any PGP-generated preliminary analysis report data will not be made public.

(c) *Updating Biospecimen Analysis Data.* The PGP may analyze your raw data and your other data provided by you and supplement your biospecimen analysis data from time to time as new data, information or techniques become available. The PGP may publish such analysis data directly to the PGP's public website and database without further notification to you.

(d) By signing this consent form, you authorize the PGP to publish your biospecimen analysis data and other personal information you have submitted to the PGP. This means that the PGP may publish this data and information without legal restriction and without your being asked to provide any additional consent. The PGP will publish the data and information on a publicly accessible website and database. It may also publish the data and information in other formats and/or media. Your ability to withdraw your consent once the PGP has published all or some of this data and information is limited, and is described in Article X of this consent form. There may be risks to you associated with the publication of this data and information. Those risks are described in Article X of this consent form.

5.5 Reports Interpreting Genetic, Environmental and/or Trait Data. As part of our ongoing efforts to improve our understanding of how genomes combine with personal history, environmental factors and other biological features to produce traits, the PGP may publish reports that attempt to interpret genetic, environmental and trait data. These reports may contain, for example, a non-comprehensive list of genetic variants present in your DNA sequence data, as well as additional information, resources or interpretation that the PGP may decide to provide.

In preparing these reports, the PGP may review your DNA sequence data in combination with the trait data and other information that you have submitted to the PGP and in light of other publicly available data.

(a) Any PGP-generated reports are produced for research purposes only. The PGP cannot guarantee that these reports are either accurate or complete. The databases, knowledge and tools used to generate these reports are not comprehensive and may change rapidly over time. In addition, interpretation of genetic variants and other data is subject to human error and/or may be out-of-date.

(b) PGP-generated reports are never intended to substitute in any way for professional medical advice, diagnosis or treatment. You may not use any PGP-generated report or any other PGP-supplied data or results for any medical or clinical purpose until you have confirmed the relevant sequence, data, interpretations and/or findings with a licensed healthcare professional.

(c) Examples of other reports similar to what you may receive as an enrollee are available on the study website.

(d) PGP-generated reports will also be considered public and may be published to the PGP's publicly accessible website and database without your prior notification or consent.

5.6 Creation, Distribution and Analysis of Cell Lines.

(a) *Creation of Cell Lines From Your Biospecimens.* If you consent to participate in this study and are enrolled, the PGP may create or attempt to create cell lines from your biospecimens. Any cells derived from such samples will be stored and maintained by the PGP, Coriell National Institute of General Medical Sciences (NIGMS) biorepository and/or other biobanks or biorepositories chosen by the PGP and approved by Harvard Medical School, unless you request that the cells be destroyed as part of your withdrawal from this study. A biorepository is a cell culture and storage facility where your cells will be expanded in number using cell culture, stored in liquid nitrogen, and shipped to authorized researchers. The PGP will not create or attempt to create new cell lines for any individual who has withdrawn from the study.

(b) *No Guarantees.* The PGP cannot make any guarantees about how long it will take to create a cell line from your biospecimens, or if it will even be possible to make such a cell line.

(c) *Distribution of Cell Lines.* Cell lines provide a renewable supply of your cells and DNA. Cell lines may be sent to and stored by the Coriell NIGMS repository and/or other biorepositories the PGP chooses consistent with the PGP's goals. The PGP will select biobanks and/or biorepositories to store and distribute your cells lines that have agreed to follow applicable and appropriate best practices for donation, procurement, culture, and storage of cell lines and other biospecimens to ensure, in particular, the traceability of stem cells. The use of these repositories will be approved by Harvard Medical School.

(d) *Use of Cell Lines.* Cell lines may be made available by the PGP and approved biobanks and biorepositories to third parties under agreements approved and entered into by the PGP without your additional notification or consent. These agreements may permit your cell lines to be used for research, patient care, commercial or other purposes, including genetic modification of the cells or mixing of human and nonhuman cells in animal models. Neither you nor the PGP will be able to restrict or specify the type of research or other purposes for which your cell lines will or will not be used. Other than for purposes of cost recovery, the PGP will not license participant cell lines to any third party for the financial gain or commercial profit of the PGP.

(e) *Return of Analyses Performed on Cell Lines.*

(i) Generally, the PGP will not provide you with the results of any analysis, development or other work performed by third parties with access to your biospecimens or cell lines. However, because such results may be made publicly available, and may be identified as deriving from your biospecimens or cell lines, you may become aware, even without your consent, of the results of such activities.

(ii) The PGP may decide to return to you certain results deriving from your biospecimens or cell lines and/or to publish such results on its publicly accessible website and database. The PGP is not obligated to return any such results to you.

(f) By signing this consent form, you authorize the PGP to distribute to others, in a manner consistent with the conditions described above, the cell lines created from your biospecimens without further notice to you and without the PGP obtaining any additional consent from you. Your ability to withdraw from the portion of this study that involves the distribution of your cell lines is limited once your cells lines have been created and distributed, and is described in Article X of this consent form. There may be risks to you associated with the creation and distribution of your cell lines. Those risks are described in Article VI of this consent form.

5.7 Safety Questionnaires.

(a) *Contents of the Safety Questionnaire.* Every 3 months the PGP will circulate a questionnaire (the “Safety Questionnaire”) to all participants and request that each participant answer the following questions (and other questions that may become relevant as the project and data collected develops):

(i) What negative and/or positive events have happened to you and/or your relatives or acquaintances due to your participation in the PGP?

(ii) What are the reactions or responses of your relatives and acquaintances to the publication of your genetic, trait and other data?

(iii) Please report incidents of being contacted by acquaintances or by strangers (including researchers, health care providers or members of the media) regarding your data being published online.

(iv) In what ways has this study positively or negatively influenced your interactions with your medical care providers or your receipt of or access to health care services?

(v) Has your involvement in this study triggered the need for any health or medical care that would not otherwise have been done? If you answer “yes,” please describe the specific medical intervention or care you received and the findings or consequences of the medical intervention or care you received with regard to your health. Health or medical care that would have been performed had you not participated in this study, whether due to symptoms, a personal or family medical history, routine screening or any other reason, should not be included.

(b) *Prompt Return Required.* You are required to return the completed Safety Questionnaire or submit a “no change” reply to the PGP within 1 month of receipt. You must return at least three Safety Questionnaires in any 12-month period or your PGP participant account will be deactivated (as described in Article X) and you will not be able to access or to update your account until you have resumed answering and returning the Safety Questionnaires.

(c) *Reporting of Unexpected Events.* You are requested to immediately report to the PGP any unexpected events that you may experience as a participant in the study

(d) *Periodic Reflection.* At 5 year intervals, and at the end of your participation in the study, you will be requested to write your thoughts about the PGP overall, including whether this consent form adequately described the procedures and risks associated with your participation.

(e) *Changes to the Questionnaire.* The Safety Questionnaire, including the substance and number of questions and the frequency of circulation to enrollees, may be modified by the PGP from time to time.

ARTICLE VI. RISKS AND DISCOMFORTS

The Personal Genome Project is a new form of public genomics research and, as a result, it is impossible to accurately predict all of the possible risks and discomforts that you might experience as a result of your participation in this study. In this section you will read about the risks that we have identified as potentially relevant to your participation in the PGP.

You are strongly encouraged to think carefully about these risks, as well as any other risks or discomforts that you anticipate might arise as a result of your own unique circumstances. These might include your own health or medical conditions, your family and personal relationships or any other factor that is specific to you. In addition to understanding the risks outlined in this Article VI, you should feel confident that you have sufficient knowledge (via the educational and testing materials available on the PGP website or through other sources) of genetics, human subjects research and the benefits and risks of participation in this study to make an informed decision about whether participation is right for you.

You are strongly encouraged to discuss this study and its potential risks with your immediate family members as well as with your doctor and/or other qualified health care providers. You

are also encouraged to discuss with the Principal Investigator directly any additional concerns that you may have regarding the risks to you of participating in this study.

Finally, because the science in this area is evolving, and data will be collected on an ongoing basis by the PGP, the risks involved due to your participation in this study, as well as the likelihood and severity of such risks, will change over time. You will not be asked to review and re-sign this consent form every time new information related to the risk of participation becomes available. However, the PGP will try to update this consent form and the study website as frequently as possible to reflect the latest information about the risks of participation. Participants and prospective participants are strongly encouraged to check the website regularly and to update their contact information with the PGP in order to obtain the most current information regarding the risks and discomforts of participation.

Please remember that you are free to not to participate in the study. If you have already enrolled, you may withdraw at any time or choose to not participate in certain data collection.

6.1 Risks Associated with the Publication of Your Data.

(a) *Risks Associated with Public Disclosure.* The risks of public disclosure of your genetic and trait data, including your DNA sequence data, or other information you provide, could affect the employment, insurance and financial well-being or social interactions of you and your immediate family. The following is a non-comprehensive list of hypothetical scenarios that could pose risks for you and/or your family:

(i) The public disclosure of your genetic and trait data could cause you to learn – either directly, from a family member or from another individual – certain unexpected genealogical features about you and/or your family. This could include inferences or allegations that your relationships with family members or other individuals, or your ancestral or cultural origins, are different than you had previously believed. In particular, this could include inferences of non-paternity, as well as inferences or allegations of paternity made by individuals you did not previously know or suspect were related to you.

(ii) Anyone with sufficient knowledge and resources could take your DNA sequence data and/or posted trait information and use that data, with or without changes, to :

(A) accurately or inaccurately reveal to you or a member of your family the possibility of a disease or other trait or propensity for a disease or other trait;

(B) claim statistical evidence, including with respect to your genetic predisposition to certain diseases or other traits, that could affect the ability of you and/or your family to obtain or maintain employment, insurance or financial services;

(C) claim relatedness to criminals or other notorious figures or groups on the part of you and/or your family;

(D) correctly or incorrectly associate you and/or your relatives with ongoing or unsolved criminal investigations on the basis of your publicly available genetic data; or

(E) make synthetic DNA and plant it at a crime scene, or otherwise use it to falsely identify or implicate you and/or your family.

(iii) Whether or not it is lawful to do so, you could be subject to actual or attempted employment, insurance, financial, or other forms of discrimination or negative treatment due to the public disclosure of your genetic and trait information by the PGP or by a third party. Although the United States has a law that bars certain forms of genetic discrimination (the Genetic Information Nondiscrimination Act, also known as GINA), this law does not apply to the use of genetic information in all circumstances and, even where it does apply, it does not guarantee that your genetic information will not be used against you in a way that you feel is discriminatory or otherwise harmful to you and/or your family.

(iv) If you have previously made available or intend to make available genetic or other medical or trait information in a confidential setting, for example in another research study, the data that you provide to the PGP may be used, on its own or in combination with your previously shared data, to identify you as a participant in otherwise private and/or confidential research. This means that any data or other information you may have shared pursuant to a promise of confidentiality or privacy may become public despite your intent that they be kept private and confidential. This could result in certain adverse effects for you, including ones not considered or anticipated by this consent form.

(v) Data that you provide (such as facial images, other trait data or DNA sequence or other genetic data) may be used to identify you, resulting in contact from the press and other members of the public motivated by positive or negative feelings about the study. This could mean a significant loss of privacy and personal time.

(vi) Your publicly available DNA sequence data, trait data and other information will include certain information that applies to your family members. Some people may draw conclusions from your publicly available information, including speculating about what such information might reveal about you and your family members. As a result, the PGP cannot predict all of the risks, or the severity of the risks, that the public availability of this information may pose to you and your relatives. You are strongly encouraged to discuss this study and its potential risks, including the fact that not all of the risks are known, with your immediate family members.

(b) *Possibility of Unintended Public Disclosure.* If you enroll in the PGP research study, it is possible that data not intended to be published (e.g., your name, answers to safety questionnaires, communication with the project staff, biospecimen analysis data during the 31-

day period prior to publication) will be publicly disclosed due to unintended data breaches, including hacking or other activities outside of the procedures authorized by the PGP. Should this occur you would be subject to the various risks and discomforts described in this section and throughout this consent form, and possibly to other risks as well, even though you did not intend for such data to be published.

(c) *Reproduction or Modification of your Data.* If you choose to make your DNA sequence data and other information available, it will be published on the PGP's publicly accessible website and database and be available without restriction to third parties. As a result, neither you nor the PGP will be able to control or restrict the access, use, reproduction, modification or analysis of your data and other public information. Your data and other public information may be made public in other forms in addition to its inclusion in the PGP database. It may also be changed, without either your or the PGP's consent, in a way that might be inaccurate and or upsetting to you. For example, a third party could access your publicly available sequence data or other information, change it and republish it to suggest that you had a propensity for a disease or other detrimental trait. Additional adverse effects are also possible.

6.2 Risks Associated with the Creation of Cell Lines From Your Biospecimen(s).

(a) *Undesirable Uses or Research - Possibility of Use for Cloning.* The distribution of your cell lines could result in the creation and further distribution by a third party of additional cell lines, organs or tissues containing your DNA for research, commercial, patient care, or other uses, including certain forms of assisted reproduction. You may dislike or be upset by some of these uses. If scientific technology continues to evolve, it may one day be possible for a third party to use, without your or the PGP's authorization, cell lines or biological materials derived from your cell lines for new or unexpected reproductive or other purposes, including cloning. You may be made aware, without your consent, of the results of such research, commercial, patient care or other uses of your cell lines, whether such use was authorized or not.

(b) *Inability to Control Access to Cell Lines.* Although cell lines deposited in and distributed by the Coriell NIGMS repository and/or other biobanks or biorepositories designated by the PGP, or by the PGP itself, will generally be made available to researchers or groups subject to their own institutional review processes, it is impossible to guarantee that all cell line recipients will refrain from sharing materials with, and will protect such materials from access by, unauthorized individuals. As a result, the PGP cannot provide any guarantees about who may receive access to your cell lines, or the research or other uses of your cell lines.

(c) *Pluripotent Stem Cells – Potential Use for Cloning and Other Research or Non-Research Purposes.* The PGP may use the cells taken from the biospecimens you provide to create a type of cell known as a pluripotent cell. This type of cell can be used to create different types of tissues. Your cells might be used in projects involving genetic alteration of the cells. Your cells might be mixed with other human cells, mixed with animal cells or grown in lab animals like mice. Your cells might also be used to reproduce tissue and cells, including for the purpose of human cloning.

6.3 Risks Associated with Your Receipt of Data From the PGP.

(a) *Data Quality Not Guaranteed.* The PGP cannot guarantee that any research data, biospecimen analysis data (including your DNA sequence data) or any other reports, interpretations or findings generated or provided to you by the PGP are complete or correct. For example, DNA sequence data generated from analysis of your cell lines may include genetic changes that occur during the cell line creation process rather than being representative of your germline DNA. Analysis of that DNA sequence data is, in turn, imprecise and reliant on the use of rapidly changing databases, knowledge and tools which are likely to result in incomplete and/or inaccurate interpretations of your data. For these and numerous other reasons, the research data and other analyses generated by the PGP are likely to be incomplete and incorrect in important respects.

(b) *Data Not to be Used for Medical Care.* The data provided to you by the PGP, including research data, biospecimen analysis data (including your DNA sequence data) or any other reports, interpretations or findings generated or provided to you by the PGP, are not an appropriate substitute for professional medical or clinical advice, diagnosis or treatment, and may not be used by you for any medical or clinical purpose unless first confirmed by a licensed healthcare professional.

(i) Medical doctors do not routinely screen DNA sequence data for genetic variations comprehensively. Gene-specific sequencing is routinely performed but usually in the context of a personal or family medical history consistent with currently known genetic disorders. As such, the clinical importance of this data is not known with any certainty at this time for any population-based, genomic study like the PGP. The validity of many genetic associations, when screened for in the general population, remains uncertain.

(ii) Regardless of any specific interpretations or findings made available to you by the PGP, you are likely to be subjected to additional interpretations – both accurate and inaccurate – of your public data by people outside of the study.

(c) *Risks Due to Pursuing Health or Medical Care.* Your biospecimen analysis data (including your DNA sequence data) and interpretations or findings about your data may contain potentially alarming information, such as potentially harmful genetic variants. This may cause you to experience anxiety or stress. As a result, you may want to seek health or medical care or counseling to verify the accuracy of such interpretations, whether provided by the PGP or by other sources. If you choose to pursue health or medical care or counseling, you could be exposed to additional risks and/or discomforts, several of which are identified below.

(d) *The PGP Does Not Provide and Is Not Responsible For Your Health or Medical Care.* The PGP will not (i) provide you with, (ii) arrange for, (iii) pay for, reimburse you for or otherwise subsidize or (iv) provide you, your doctor or any other health care provider or insurer with any recommendations, advice or other guidance with respect to, any of your health or medical care, including any current or follow-up medical or clinical advice, counseling, diagnosis, treatment, preventative action or other related course of action of any kind.

(i) The PGP is a research study and is not responsible for any part of your health or medical care, including, accurately predicting disease or disease risk, informing you of genetic variations or providing you with accurate and valid DNA sequence data or interpretations of your DNA sequence data. No health or medical care of any kind will be made available by the PGP and, as described above, no special arrangements, for compensation or otherwise, will be made by the PGP should you require or choose to pursue any health or medical care as a result of your participation in the PGP.

(ii) You should talk to your doctor or other qualified health care provider if you have questions about any of your genetic or trait information, including your biospecimen analysis data (including DNA sequence data) or any other interpretations or findings based on your data, whether or not provided by the PGP. You should not ignore professional medical advice from your doctor or any other qualified health care provider about any of your genetic or trait data or other information provided or analyzed by the PGP. You should not interpret any analysis, interpretation or finding provided by the PGP as recommending or discouraging any specific treatment plan, product, or course of action with respect to your health or medical care.

(iii) If after talking with your doctor or other qualified health care provider, you decide that any change in your health or medical care is necessary or advisable as a result of any information or interpretation you have received due to your participation in the PGP, you will be solely responsible for all resulting payments and costs associated with such health or medical care. You will also be solely responsible for consulting with your doctor, your health care provider and your health care insurance provider, if any, to determine whether any such costs would be covered or reimbursed.

(iv) Any health or medical care that you may determine is necessary, after consultation with your doctor or other qualified health care provider and whether as a result of your participation in this study or otherwise, may be invasive and have its own associated risks and expenses. Serious risks, including death, may be involved in any such health or medical care. You should carefully consider these risks, as well as whether you have the financial and other resources necessary to pursue such health or medical care.

(v) If your doctor or other qualified health care provider is directly or indirectly involved with the PGP, as either a researcher or a participant, any health or medical care that you receive from such health care provider, including medical advice or clinical management, represents health or medical care provided by that provider pursuant to your existing doctor-patient relationship, and is not health or medical care provided by the PGP.

6.4 Physical Risks and Discomforts Associated with Biospecimen Collection.

(a) There are no known or foreseeable risks or side effects associated with obtaining saliva, hair, inner cheek swab, skin swab, urine, or fecal samples. The blood draw and skin biopsy may involve pain, bleeding and/or fainting, and may also cause temporary bruising and/or

infection at the site of puncture. Some degree of permanent scarring can be expected from the skin biopsy procedure as described in Article V.

(b) If you are physically injured as a result of your participation in this study, please seek medical care immediately and contact the Principal Investigator. The PGP will not provide any health or medical care to participants and will not provide participants with compensation. In the event of a complication from biospecimen collection, participants will be offered the necessary care to treat the complication. This care does not imply any fault of wrong-doing on the part of the institutions participating in this study or the doctor(s) involved. Where applicable, the appropriate institution participating in this study reserves the right to bill third party payers for services received by participants for medical care and to make other decisions concerning payment in such instances. The institutions will not provide participants with any additional compensation for such complications.

6.5 Data Safety Monitoring Board. A Data Safety Monitoring Board (DSMB) will monitor the progress of the PGP, including the risks to study participants. Although the PGP will attempt to inform you of additional risks identified by the DSMB, including through updates to the study website, the DSMB will not be able to monitor all of the risks of participation in this study, and it may not be able to advise you or the PGP of those risks that it monitors or identifies.

ARTICLE VII. BENEFITS

7.1 No Benefits to You. You are not likely to benefit in any way as a result of your participation in the PGP.

ARTICLE VIII. INTELLECTUAL PROPERTY

8.1 Promoting Open Access. One of the primary goals of the PGP is to develop a public dataset supplied by willing participants to aid in the development of analytical tools and interfaces for scientists, doctors, and individuals around the world. In order to accomplish this, the PGP will endeavor to develop licenses, data structures and other tools to maximize the ability of the study to share its data in the broadest possible fashion.

8.2 Ownership of Your Information and Data. The PGP will not attempt to assert ownership of any information or data that you provide directly to the PGP as part of your participation in the study. However, by participating in the study you grant to the PGP a nonexclusive, worldwide, royalty free, perpetual, irrevocable license to use such information and data without restriction including, without limitation, the right to sublicense, copy, distribute, transmit, publicly display and perform, publish, reproduce, edit, translate, reformat and create derivative works. This grant of rights is subject only to your ability to withdraw from the study, as described in Article X of this consent form.

8.3 Ownership of your Study Data. Any biospecimens that you provide to the PGP as part of your participation in this study, including saliva, hair, blood or other biological tissues, are the property of and are owned by the PGP and not by you. Any information, data, analyses or other materials created or prepared by the PGP from such biospecimens, including, without limitation, your DNA sequence data, cell lines and the results of any research or analysis performed by or in collaboration with the PGP, are the property of and owned by the PGP and

not by you. However, consistent with the goals of the PGP and this consent form, the PGP will attempt to make this information, data or materials, including your DNA sequence data, cell lines and other related analyses and materials, freely available to you and/or to the public as described in this consent form. Ultimately, however, it will be the PGP's decision – consistent with the requirements imposed by this consent form, Harvard Medical School and applicable law – when and whether to make available such information, data and materials. The PGP is unable to guarantee if, when or in what form you will receive access to any information, data or materials as part of your participation in this study.

8.4 No Licensing for Profit. Other than for purposes of recovering its costs, neither the PGP nor Open Humans Foundation will license or otherwise make available your biospecimens, cell lines, DNA samples, DNA sequence data, and personal information to any person, institution, company or other third party for the financial gain or commercial profit of the PGP or Open Humans Foundation. However, information and materials that you provide, including DNA sequence data and cell lines derived from your biospecimens, may be made available to third parties for research, patient care, commercial or other purposes, and these third parties may commercially profit from the data or other information that you contribute to the PGP.

8.5 No Compensation. You will not be compensated for your participation in the PGP. The results of studies using materials provided by you, such as your stem cells, may have commercial potential. Neither you nor your heirs will receive financial or any other benefits from any discoveries, whether or not of a commercial nature, made using the information and/or biospecimens that you provide.

ARTICLE IX. CONFIDENTIALITY

9.1 No Confidentiality After Publication. If you are enrolled in the PGP and choose to publish any of your data to the PGP's public website and database, that data will not be kept or made available by the PGP in a confidential or anonymous fashion. The PGP will not require any collaborators or other individuals accessing your information to keep the information in a confidential or anonymous fashion. Unless you withdraw from the study before your data are published, your genetic and trait data will be made available via a publicly accessible website and database.

9.2 Association of Your Name With Your Data. You may choose to explicitly publish your real name as part of your PGP profile, but the PGP will not otherwise intentionally associate your name with your genomic or trait data or other information that is published to the PGP's public website and database or otherwise intentionally identify you as a participant in the PGP without your prior consent. However, as described above, because of the identifiable nature of the information you provide to the PGP, as well as the nature of the data and analyses generated by the PGP, it is possible that one or more third parties may identify you as a participant in the study. This may result in the association of your published data and other information with your name or other information that you have not provided to the PGP and may not have wished to be publicly disclosed.

9.3 Efforts to Preserve Confidentiality Prior to Publication. Before your publication of biospecimen analysis data, the PGP will use reasonable efforts to preserve the privacy and confidentiality of such data, as well as other information you provide to the PGP in a private manner (your name, answers to safety questionnaires and communication with project staff). You should be aware that the public disclosure of this information may still happen due to unintended data breaches, including hacking or other activities outside of the procedures described in this consent form. For this reason the PGP cannot guarantee and you should not assume that information you provide to the study, or that is generated about you by the study, will be maintained in a confidential manner.

9.4 No Direct Disclosure to Your Health Care Provider. Your genetic and trait data will not be sent to your health care provider directly by the PGP and will not become part of your medical record due to any activities of the PGP. However, because this information will be publicly available, and may be identified as yours, it could become part of your medical record or be shared with your doctor or other health care provider or your health care insurance provider, or provided to others due to the activities of one or more third parties.

9.5 Replies to Safety Questionnaires. Your replies to the Safety Questionnaires will be generally only be accessed by PGP staff members on the IRB Roster. However, the DSMB, IRB, or governmental agencies may request or require this information in order to judge the risks to you and any other study participants. The PGP will share your replies to the Safety Questionnaire with them to the extent required or reasonably requested.

(a) *Publication of Responses.* Responses to the Safety Questionnaires that may impact other PGP participants, or the public generally, will be paraphrased or will have all information reasonably likely to identify you removed prior to making this information available on the public website or elsewhere for purposes of public education or risk management. If you would like your answers to be identified as yours, you may indicate that preference as part of your response to the Safety Questionnaires. Although the PGP will take reasonable steps to ensure that your responses to Safety Questionnaires, if published, are not identified as yours without your consent, the PGP is unable to guarantee the anonymity of your responses.

(b) *Publication of Results.* The results of this study may be published in a medical book, journal, website or webpage, or used for teaching purposes. Identifying information that is associated with your data and/or the results of this study (such as your name, photograph, DNA sequence data, and medical or trait information if that has become associated with your study data by you or a third party during the course of your participation in the PGP), may be used in such publications or teaching materials. The PGP will not notify you prior to such uses.

ARTICLE X. REFUSAL OR WITHDRAWAL OF PARTICIPATION

10.1 Voluntary Participation. Participation in this study is voluntary. You do not have to participate in the PGP. You may withdraw your participation (including your data, subject to the limitations below) from this study at any time. You will never have to provide a reason for your withdrawal.

10.2 Limitations on Withdrawal. You are free to decide at any time that you no longer want your biospecimens, DNA sequence data, cell lines or other information to be used as part of this study. However, it may not be possible to prevent the future use of your data, cell lines and/or other information in certain circumstances:

(a) *Deletion of Trait and Sequence Data.* If you choose to withdraw from the study and request that your genetic and trait data to be removed, within 6 months the PGP will delete all DNA sequence and trait data about you contained in the PGP's publicly accessible website and database. The PGP will take reasonable steps to ensure that your DNA sequence, trait and other data are not included in any future updates to the PGP's public website and database and will also request any organizations or researchers with whom the PGP has any formal data sharing agreements to likewise delete your data and information within a reasonable time frame. However, once any data or information about you is posted to the PGP's public website and/or database, other organizations and individuals who have no formal data sharing agreement with the PGP may acquire copies of it. There will be no way to ensure that they will delete their copies of your data or information, or for the PGP to even know what copies of your data or information may exist. The PGP will encourage researchers or other users, including PGP researchers, to use the most current version of the PGP database, but your data may be combined by the PGP and/or its collaborators or third parties in ways that will make it impossible to delete them from such datasets.

(b) *Destruction of Biospecimens and Cell Lines.* If you decide to withdraw from participation and request that the PGP remove cell lines created from your biospecimens, the PGP will take reasonable steps to destroy all biospecimens and cell lines held by the PGP and send a notice to all biobanks and biorepositories with which the PGP has formal agreements requesting the destruction of your biospecimens and cell lines. However, once biospecimens and/or cell lines have been distributed, the ability to control their use by you, the PGP or the biobank or biorepository to which they were distributed will be limited. Because your cell lines and/or biospecimens may have been widely distributed, it may not be possible to retrieve and/or destroy all copies of your cell lines and/or biospecimens.

10.3 Removal from the Study. The PGP may decide to end your participation in this study at any time. If the PGP terminates your participation it will provide you with an explanation. If you are refused enrollment in the PGP, or your participation in the PGP is terminated by the PGP, you may ask that the PGP destroy any of your biospecimens and/or cell lines, and delete any of your data in accordance with the provisions set forth above. If neither you nor your Designated Proxy request that your biospecimens and/or cell lines be destroyed and/or your data be deleted upon your removal from the study, the PGP may elect, in its discretion, to maintain your biospecimens, cell lines and/or data for use by the study consistent with this consent form.

10.4 Failure to Complete Safety Questionnaires. If you return fewer than three Safety Questionnaires in any 12-month period your PGP participant account will be deactivated (as described in Section 10.5) and you will not be able to access or to update your account until you have resumed answering and returning the safety questionnaires.

10.5 Deactivated PGP Participant Accounts. Unless you or your Designated Proxy specifically request otherwise, if your participation in this study is ended for any reason, including, without limitation, because (a) you choose to withdraw from the study, (b) you fail to return Safety Questionnaires as required, (c) you choose not to execute a revised informed consent agreement or (d) you are removed by the PGP, your PGP participant account will be deactivated. This means that the PGP will maintain your biospecimens, cell lines, genetic data, trait data and all other participant data and information associated with your account, but that you will no longer be able to access or to update your account. Your account may be reactivated in certain circumstances (e.g., if you resume answering Safety Questionnaires) as determined by the PGP. You may also elect to instruct the PGP to remove some or all of your data, information and biospecimens, subject to the limitations described in this Article X, by notifying the PGP in writing.

10.6 Maintenance of Certain Information. If you decide to withdraw, or if the PGP ends your participation, the PGP may continue to keep certain limited information about you following the conclusion of your participation in the PGP, including your name, date of first participation, date of enrollment, date of termination or withdrawal and reason for termination or withdrawal.

ARTICLE XI. ALTERNATIVES

11.1 Alternative. The alternative is not to participate in the PGP.

11.2 No Effect. If you choose not to participate, your medical treatment by your doctor or other health care providers will not be affected.

ARTICLE XII. DONATIONS AND FUNDING SOURCES

12.1 Opportunity for Financial Donation.

(a) *The Possible Donation.* You may be invited to make a financial donation to the PGP (a “Donation”) in the event that you are invited to enroll in this study.

(b) *No Obligation.* Participants will be enrolled whether or not a Donation is made and without regard to the amount of any Donation. However, financial contributions are encouraged and are important to the sustained success of the study. If you choose to make a Donation it will be used to subsidize the cost of the PGP’s research and related activities.

12.2 Funding Sources. Please see <http://pgp.med.harvard.edu/funding-sources> for current funding sources.

ARTICLE XIII. RESEARCH-RELATED CONTACT INFORMATION:

13.1 Principal Investigator. If you have any questions or concerns about the study, or if you suffer a research related injury, you may contact the Principal Investigator: George Church, PhD, at (617) 432-7562 or consent@personalgenomes.org.

13.2 Researcher Financial Interests in this Study. George Church, PhD is an inventor of a number of technologies used for genome sequencing and is also a founder of, owner of, and/or advisor to a number of companies involved in genome sequencing from which he could derive a financial benefit. All of Dr. Church's outside relationships with such companies are detailed and periodically updated at <http://arep.med.harvard.edu/gmc/tech.html>.

In addition, other investigators on the study team have interests in genome sequencing companies, and could also benefit financially from them. All investigators' financial interests have been reviewed by Harvard Medical School. If any financial benefit to Dr. Church and/or the other investigators on the study team is derived from these interests, there are no plans to provide compensation to research participants. This disclosure is made so that you may determine whether these potential financial interests affect your willingness to participate in this study. If you have questions, or would like a list of all study team members with financial interests in the research, please refer to the contact information in this section for whom to contact.

13.3 Additional Contact Information. If you wish to discuss your rights as a participant in a research study, or if you feel under any pressure to enroll in this Eligibility Screening you may contact the Office of Human Research Administration (OHRA) at 617-432-2157 (or toll free at 1-866-606-0573) or email irb@hsph.harvard.edu.

[To Complete This Informed Consent Form, Your Signature Is Required on the Following Page]

SIGNATURE

I have read this entire informed consent form and I understand it completely. I confirm that I understand the purpose of this study, the study procedures, the possible risks and discomforts of participating in this study, the potential benefits that I may experience, and the alternatives to my participation in this study. All of my questions have been answered to my complete satisfaction.

I understand that by signing this informed consent form, I am acknowledging and agreeing to all of the terms and conditions of my participation set forth above, and I am providing my informed consent to participate in the Personal Genome Project.

Failure to accurately represent your full name on this informed consent will invalidate your eligibility for enrollment.

You may not submit or sign this consent form on behalf of any other person, even if you are the parent, guardian or hold a power of attorney or comparable authority with respect to such person.

Date _____

Name of Participant (printed) _____

Signature of Participant _____

PLEASE NOTE: THIS CONSENT FORM IS FOR REVIEW PURPOSES ONLY. CONSENT FORMS WILL BE SIGNED ONLINE DURING THE ELIGIBILITY AND ENROLLMENT PROCESS.