

### Authorization for Tissue Donation in National Institutes of Health Research Project

Thank you again for your generous gift of life. This authorization discusses another opportunity for donation. Our organization is partnering with the National Institutes of Health (NIH) on a project called "GTE<sub>x</sub>", which is short for Genotype-Tissue Expression. The project is acquiring tissue from generous donors to help scientists and doctors from around the world understand how genes work. As you probably know, genes carry the information that is passed from parent to child that affects such things as eye color or susceptibility to disease. The goal of the project is to help scientists understand exactly how genes affect health. This could potentially help in the development of medical tests and cures for many diseases such as cancer, heart disease and diabetes in the future.

I will provide information to you before asking for your authorization to recover the gifts of tissues for this important research. Please ask if there are things you do not understand.

- GTE<sub>x</sub> was established to do two things: first, it is a BIOBANK. A biobank is a facility that stores donated tissues from many people so that it can be used in medical research studies. Second, the donated tissue will be analyzed for their genetic information. This will be put into a DNA DATABASE that will be made available to researchers.
- Scientists will use the tissue to examine each donor's complete genetic makeup. This information along with information from the donor's medical record will all be stored in a DNA database on the Internet. Qualified scientists and companies from around the world will be able to use the tissue and information in the DNA database for many kinds of medical research. A limited portion of this database will be made available publically on the Internet.
- Brain tissue is important to the study of many diseases like Alzheimer's, Parkinson's and Autism and if allowed, the entire brain will be recovered. In other areas of the body only very small amounts of tissue, about the size of 8 stacked quarters, will be collected.
- Some tissues may be treated so that it grows forever and can be studied for many years. The tissue may be stored indefinitely and cells from the tissue can also be transformed into different kinds of cells. For example, skin cells could be transformed into nerve cells.
- There is a chance that the donor and the blood relatives of the donor could be identified. The GTE<sub>x</sub> project will make every effort possible to keep this from happening. The donor's name and other things like address and medical record numbers will be removed from the database and the labeling of the tissues. No researchers using the tissues or database will know the identity of the donors as the information and tissues will be labeled only with a code number.
- You can change your mind and withdraw the tissue or health information from the study by calling NDRI at 800-222-6374 and referencing GTE<sub>x</sub>. In this case, any tissue remaining in the biobank will be destroyed and never used again. Health information and genetic data will be removed from the database and never distributed further. However, you cannot stop samples and information from being used that have already been sent to researchers.
- Families will not be given results of any testing done using the donor's samples. We will send you a brochure about GTE<sub>x</sub>, which includes websites designed specifically for the public and for people who donated to this important research.
- LifeGift would also like to collect additional samples of tissue for use in other important research projects that are not connected to the GTE<sub>x</sub> project. Donated tissues may be stored indefinitely and these projects will vary in purpose. For instance, there is a possibility that some of the donated tissue may be used for genetic research, treated to grow forever, and be transformed into different types of cells that could be used to make medical products. However, you will not be informed about what types of research projects the tissues are used for or about what happens to the tissue after it is collected. Only small amounts of additional tissue would be collected.

For telephonic authorization, please have NOK verbalize the following:

I, \_\_\_\_\_, being the \_\_\_\_\_ and next-of-kin of \_\_\_\_\_,  
*(print name of next-of-kin) (relationship) (print name of donor)*

authorize LifeGift / NDRI for the donation of samples of the tissue types and associated connective tissues indicated below? Please state yes or no to each.

Brain(Tissue Donor only) <input type="checkbox"/> Yes <input type="checkbox"/> No	Salivary gland <input type="checkbox"/> Yes <input type="checkbox"/> No	Stomach <input type="checkbox"/> Yes <input type="checkbox"/> No	Liver <input type="checkbox"/> Yes <input type="checkbox"/> No
Skin <input type="checkbox"/> Yes <input type="checkbox"/> No	Endocrine tissue <input type="checkbox"/> Yes <input type="checkbox"/> No	Large intestine <input type="checkbox"/> Yes <input type="checkbox"/> No	Reproductive tissue <input type="checkbox"/> Yes <input type="checkbox"/> No
Adipose(fat) <input type="checkbox"/> Yes <input type="checkbox"/> No	Heart tissue <input type="checkbox"/> Yes <input type="checkbox"/> No	Pancreas <input type="checkbox"/> Yes <input type="checkbox"/> No	Blood <input type="checkbox"/> Yes <input type="checkbox"/> No
Muscle <input type="checkbox"/> Yes <input type="checkbox"/> No	Mammary tissue <input type="checkbox"/> Yes <input type="checkbox"/> No	Spleen <input type="checkbox"/> Yes <input type="checkbox"/> No	Lymph node <input type="checkbox"/> Yes <input type="checkbox"/> No
Blood vessel <input type="checkbox"/> Yes <input type="checkbox"/> No	Lung <input type="checkbox"/> Yes <input type="checkbox"/> No	Kidney <input type="checkbox"/> Yes <input type="checkbox"/> No	
Neurological tissue <input type="checkbox"/> Yes <input type="checkbox"/> No	Esophagus <input type="checkbox"/> Yes <input type="checkbox"/> No	Bladder <input type="checkbox"/> Yes <input type="checkbox"/> No	

Please specify limitations: \_\_\_\_\_

Do you have any questions about the information I just read? \_\_\_\_\_

\_\_\_\_\_  
*(Signature of Next-of-Kin)*

\_\_\_\_\_  
*(Signature of Witness #1, LifeGift TC)*

\_\_\_\_\_  
*(Print name of Next-of-Kin) date/time*

\_\_\_\_\_  
*(Print name of Witness #1, LifeGift TC) date/time*

\_\_\_\_\_  
*(Street Address)*

\_\_\_\_\_  
*(Signature of Witness #2, Hospital Representative)*

\_\_\_\_\_  
*(City/State/Zip)*

\_\_\_\_\_  
*(Print name of Witness #2, Hospital Representative) date/time*

**Check box if telephonic authorization obtained<sup>1</sup>.**

1. If telephonic authorization obtained: (i) print name(s) of Next-of-Kin and any witness(es) and (ii) note date and time of authorization.

**Addendum to GTEEx Authorization form for the ENCODE project**

In addition to GTEEx, there is another National Institutes of Health project called ENCODE - short for the Encyclopedia of DNA Elements - that we are partnering with. Like GTEEx, this project analyzes donated tissues for their complete genetic information. The purpose of ENCODE is to learn about all of the different parts of DNA in human cells and how they work.

ENCODE differs from GTEEx in these ways:

- All tissues collected for ENCODE will be sent to ENCODE-authorized researchers within a few weeks after collection, and once this happens, there will be no way for you to withdraw from the study.
- In ENCODE, the only information about the donor connected to the data will be limited and general, such as gender, age, and cause of death.
- All information in ENCODE – including the genetic data - will be shared freely in scientific databases on the Internet. Although only experts will know how to interpret this information, anyone will be able to access it, and there is a chance that somebody could use it to connect your family member with the information generated from the donated samples. If that happened, the information could potentially be used to discriminate against you or your family members.

The discoveries that scientists can make by using these donated tissues will be highly valuable for understanding human health and disease. However, we cannot always foresee the results of research, and this means that new risks may come up in the future that we cannot predict now.

Do you have any questions about the information I just read? \_\_\_\_\_

\_\_\_\_\_  
*(Signature of Next-of-Kin)*

\_\_\_\_\_  
*(Signature of Witness #1, LifeGift TC)*

\_\_\_\_\_  
*(Print name of Next-of-Kin)* *date/time*

\_\_\_\_\_  
*(Print name of Witness #1, LifeGift TC)* *date/time*

\_\_\_\_\_  
*(Street Address)*

\_\_\_\_\_  
*(Signature of Witness #2, Hospital Representative)*

\_\_\_\_\_  
*(City/State/Zip)*

\_\_\_\_\_  
*(Print name of Witness #2, Hospital Representative)* *date/time*

**Check box if telephonic authorization obtained<sup>1</sup>.**

1. If telephonic authorization obtained: (i) print name(s) of Next-of-Kin and any witness(es) and (ii) note date and time of authorization.