Adult-CLG

NKI/RPCIRB

Approval Date: 11/8/16 Expiration Date: 7/25/17

Participant	Initials:	
	ID#:	

CONSENT FORM TO PARTICIPATE IN THE STUDY TITLED "LONGITUDINAL DISCOVERY OF BRAIN DEVELOPMENT TRAJECTORIES"

Nathan S. Kline Institute For Psychiatric Research (NKI) 140 Old Orangeburg Rd, Orangeburg, NY 10962

Participant Name:		Participant ID:	
Project Directors :	Michael Milham, MD, PhD, Russell T	Tobe, M.D.	

THE PURPOSE OF THIS RESEARCH IS: The goal of this study is to understand more about our mental health by finding out how our brains are connected to how we think, what we feel and what we do. We want to see how our brains change from early childhood through early adulthood. We also want to see how our genes are related to the way our brain works. We will share data and scans from this study with other scientists around the world to be used in their research as a way of making more discoveries about the way our brains work. As described more fully below, the data and scans will be provided in a form that does not include any identifiers except the County you live in.

This study is a continuation of the study entitled "Longitudinal Discovery of Brain Development Trajectories" to which your parent consented (and you gave permission) in the past on your behalf. Now that you are an adult (age 18 and older), you need to sign your own consent to continue to participate.

What will happen if I participate?

If you agree to be in this study, you will be asked to read and sign this consent form. After you sign the consent form, the following things will happen:

If you choose to be in this study, you will complete 2 visits. Each visit will take approximately 8 hours and will be approximately 15 months apart.

On your two visits we will do the following:

- Measure your vital signs (blood pressure, pulse rate, height and weight), and take your waist and hip measurements.
- Obtain information about changes in your medical history, including any changes in medications you are taking, and any hospitalizations or surgeries that occurred since your last visit.
- Collect a fasting blood sample (Nothing to eat 8-12 hours prior to blood collection) to test blood counts, cholesterol, electrolytes (e.g., sodium and potassium), as well as overall health of body organs (e.g., liver, kidney, and thyroid), and metabolic, inflammatory and hormonal levels.
- We will provide breakfast and lunch on both visits.
- If you are a woman of child bearing age and you believe there is any chance you could be pregnant, a pregnancy test will be completed. If the results are positive you cannot have the MRI scan, but you can continue in the study.
- As part of the data collection for the study we will ask you to provide a urine sample to test for recent drug use. The drug test we will use is the Alere iCup® DX which is not 100% accurate and only provides a preliminary result. You will be informed of the test results. If you decline the drug test, or if tests results are positive, you can still continue in the study. Results from the urine drug screen will be filed in your research record
- Ask questions about your feelings and behaviors (recently as well as in the past).
- Test how you plan things and how you remember things.
- Ask you to complete surveys about your feelings and behavior.
- Ask you to ride a gym bike for 6 minutes.
- Test how you problem solve and process information
- Obtain an MRI scan. (see below for more information)

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You may be asked to complete some study assessments at home if you are unable to finish them during your visit. This is optional and should take less than a few hours to complete.

Stimulant Medication Usage:

As part of our protocol, we request that individuals being treated with stimulant medications for Attention Deficit Hyperactivity Disorder (ADHD) discontinue usage of the medication on the days of participation in this study. (Example: Ritalin, Adderal, Concerta) This request is based on our desire to minimize potential effects of the medication on our assessments of brain function. You can decide to discontinue your stimulant medication on the days of study participation if your physician has no objection to this. If you or your physician has concerns about the safety of discontinuation of the medication on study participation days, you can still participate in the study, but it is important to let our staff know so that we can properly document your data record.

Blood Collection and Genetic Sample:

Blood collection is required for this study. A blood sample will be collected to test blood counts, glucose, electrolytes, sodium, potassium, cholesterol, etc., as well as overall health of body organs (e.g., liver, kidney, and thyroid), and metabolic, inflammatory and hormonal levels. We will also collect a genetic sample. For the genetic sample, we will collect about 4 teaspoons of blood. The blood sample, without your name, will be sent to the National Institute of Mental Health (NIMH) bank in New Jersey. Before your sample and data are sent to the NIMH bank we will remove all identifiers, e.g. name, birth date, date of participation. The only exception is that the county you live in will be identified. We are doing this so that the sample and information are not linked back to you. Since we will not be able to tell what sample is yours, we will use a special code for your sample that will be kept at NKI. At the NIMH bank, the DNA will be taken from the cell line and used for scientific research now and in the future. DNA and mental health information collected from you will be stored at the bank. This will include information about your family structure, age, sex and any psychological symptoms. Your DNA and mental health information will be stored there in a coded way to keep your identity a secret. NIMH will provide your samples (i.e. DNA, RNA, cell lines, potentially plasma fractions) to qualified scientists around the world to study how genes are related to mental health.

Deidentified (except for County) data from this study as well as data derived from your blood such as genetic data may also be joined with other deidentified data (except for County) and sent to a data bank that is supported by the National Institutes of Health (NIH) as more fully described below. Sharing this data is helpful because it allows for newer, larger questions to be studied. Your data will be made completely de-identified (except for County), which means that the information does not identify who you are.

If you are worried about the blood draw, we may offer you Lidocaine numbing cream, or a small device shaped like a bee that will help to minimize the pain associated with the procedure. These are methods commonly used to make the experience more comfortable. It is your choice whether to use these products or not while having your blood drawn.

If blood draw is declined, continued participation is at the discretion of the study investigators.

MRI:

You have already done at least one MRI scan at this point. As you may know, MRI scanning makes pictures of your brain. During the scan, you will lie down on a table that is like a bed, and the table will slide into the scanner. Once you are inside the scanner, it will start to take the pictures. You will be in the scanner for about 1 hour.

While you are in the scanner, we will take many types of pictures, including some while you view a flashing checkerboard and some while you are asked to briefly hold your breath. We may also monitor heart rate, breathing patterns, electrical signals of your brain activity (electroencephalogram, EEG), and level of relaxation. These items may include the following devices: a pressure belt placed around your upper abdomen, a clip placed on your finger, disposable sensors placed on your hand, disposable sensors placed on your chest and disposable sensors placed on your head. We may also ask you to wear a pair of goggles to track your eye movements and blinks.

While the MRI scanner is working, you may hear noises, like knocking or beeping sounds. We will give you ear-plugs or earphones to make it quieter. While you are in the scanner, you can talk to the person who is running the scanner the whole time, and if you ask, they can stop the scan at any time, for any reason.

If there is a problem with the MRI machine, we may ask you to return to NKI for another visit, if you choose.

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THE POTENTIAL RISKS OR DISCOMFORTS TO YOU ARE:

Sometimes people may be uncomfortable about the questions in an interview. You may always take a break during the interview, and may also stop at any time, for any reason. In addition, you do not have to answer any questions that you do not want to answer and you do not have to do any parts of the study that you do not want to do. Several questionnaires included in the study include questions regarding your sexuality and sexual practices. If you have any concerns about being asked questions of this nature, please let study staff know, as they can be excluded. Additionally, if you would like to learn about educational resources regarding these domains, please let our staff know and they will provide informative weblinks. You can talk about any issues or concerns that come up during the study with the project director Dr. Michael Milham, who is a licensed child and adult psychiatrist, or Dr. Russ Tobe, who is a licensed child and adult psychiatrist, as well as any of the project staff for this study. Possible side effects from the blood draw are pain, swelling, bruising, or bleeding where the needle is put in the body and fainting.

- MRI RISK: There are no known long-term risks with this kind of MRI scanning. The magnet of an MRI scanner, including this one, can cause electronic devices like pacemakers, beepers, and watches to break or stop working, and some metal objects can be pulled into the magnet. Certain medical devices (like pacemakers) or objects that you have on or in your body may make it unsafe for you to be scanned. We will ask you some questions before the scan to make sure you do not have anything unsafe on or in your body, and we will ask you to take off objects with metal in them that you may be wearing (such as a watch or jewelry). If we find that you have something unsafe for an MRI scan in or on your body that cannot be removed, you cannot have the scan. It has been reported that a small number of people with tattoos may feel mild tingling or heating during the scan. If you have tattoos and notice similar feelings, please tell the person running the scanner, and the scan can be stopped.
- **PREGNANCY RISK:** There are no known risks with having an MRI during pregnancy and MRI is done in pregnant women. However, we will not scan someone who is pregnant. You should know that if you are a woman who could be pregnant and you agree to be in this study, it means that you believe that you are not pregnant. A pregnancy test will be available upon request, which will be performed at the NKI clinical laboratory. We recommend that you take advantage of this option if there is any chance that you could be pregnant.

THE POTENTIAL BENEFITS TO YOU OR TO OTHERS ARE:

This research study will not directly help you. It is hoped that what is learned will help others in the future. These methods may be used in research to increase what we know about mental health problems. This study is for research only and is not any part of your medical care. The scans performed in this study are not expected to find any clinical abnormalities. However, the anatomical scans will be reviewed by a licensed, certified clinical radiologist. In order to protect your confidentiality, no personal information will be given to the radiologist. If the radiologist recommends any follow-up evaluations, the Principal Investigator or one of the research staff will contact you. The initial contact may be verbal (telephone or in-person) followed by a written notification documenting the nature of the finding and the kind of follow-up that is recommended. If requested, a copy of the images (on a CD) can be picked up by you at NKI or we can mail the CD to you or your physician. The decision as to whether to proceed with further examination or treatment is yours, along with your primary care physician. Costs for clinical follow-up are not budgeted in the cost of this research.

You may get feedback about your health from any laboratory tests done in this study from the study staff. You will be told of any abnormal lab work that is found, so that you can follow-up with your primary physician.

IF YOU DO NOT PARTICIPATE IN THIS STUDY, YOU MAY RECEIVE THE FOLLOWING ALTERNATIVE TREATMENT: Since this is not a treatment study, the alternative is not to participate.

CONFIDENTIALITY:

To help us protect your privacy, we got a Certificate of Confidentiality from the National Institutes of Health. With this Certificate, the researchers cannot be forced to give information that may identify you from this study, even by a court subpoena, in any federal, state, or local civil, criminal, administrative, legislative, or other proceedings. The researchers will use the Certificate to keep information that can identify you private, except as explained below.

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The Certificate does not stop the United States Government if they ask for information to review a federally funded project or to go to the Food and Drug Administration (FDA).

You should know that a Certificate of Confidentiality does not prevent you or a member of your family from choosing to share information about yourself or what you have done in this research. If an insurer, employer, or other person gets your written consent to have research information, then the researchers may not use the Certificate to hold back that information; this can only happen if you say it is okay first.

If researchers are worried about your safety they can give information that may identify you to the proper authorities to be sure that you are safe; the Certificate of Confidentiality does not stop researchers from doing this if they are worried about safety. If the person who interviews you feels that you may hurt yourself or someone else, he/she will let you know and will take whatever action is needed to keep you and anyone else who may be in danger safe, including telling you to speak to your doctor or therapist, so they can help you.

We will take measures to protect your privacy and the security of all your personal information. Your name and other identifying information will be maintained in locked files and/or restricted databases, available only to authorized members of the research team. All of the information we collect about you will be coded with a unique research subject identifier (URSI) and will be kept on password-protected computers at NKI and at the Mind Research Network (MRN) facility. MRN is a company that backs-up our data for us and provides us with the software to complete the questionnaires on the computer. All files and email accounts are encrypted to further protect your protected health information. Information resulting from this study will be used for research purposes and may be published; however, you will not be identified by name in any publications.

After participation, this study may provide research data to the 1000 Functional Connectomes Project and its International Neuroimaging Data-sharing Initiative (INDI). This project is a data sharing effort that provides research laboratories at non-profit and for profit institutions (e.g., medical centers, universities, private research groups) with access to data contributed by imaging sites around the world. This data repository is on the Neuroimaging Informatics Tools and Resources Clearinghouse (NITRC), which is supported by the National Institutes of Health (NIH). The NIH is part of the U.S. Department of Health and Human Services (DHHS), which is an agency of the U.S. Government. Such data sharing is beneficial as it reinforces open scientific inquiry, encourages diversity of analysis and opinion and permits the creation of new, large, demographically diverse data sets by combining data from multiple sources. Willingness to have your de-identified data shared with the scientific community is a requirement for participation in this study.

Prior to submission to the 1000 Functional Connectomes Project, we will remove all identifiers, e.g. name, birth date, date of participation from the data obtained from your participation. *The only exception is that the county you live in will be identified.* We are doing this so the information cannot be linked back to you. Additionally, we will remove all face information from the MRI images to eliminate any possibility of reconstructing a facial image. Each dataset will be assigned an identification number and the relationship between the anonymized code and original subject identifier will be destroyed, to ensure that the data contributed does not identify you. Additionally, any investigators requesting access to information related to psychiatric, medical or behavioral assessments are required to have their institution complete a legally binding agreement to protect your privacy first and foremost.

A key concern in the scientific community is the possibility that genetic and imaging samples themselves may one day be used to identify individuals – much the way a fingerprint can. In this regard, the NKI-Rockland requires that any investigator from an outside institution attempting to access clinically- or personally-sensitive information first sign a legally binding agreement that explains limits on use of the data and how data will be protected. Any institution or individual who signs this agreement is legally liable for any misuse of data, including attempts to reidentify an individual.

The Nathan Kline Institute/Rockland Psychiatric Center Institutional Review Board, the Office of Human Research Protection, and the New York Office of Mental Health, among other government regulatory agencies may also have access to your records, and a copy of this consent form may be sent to the Director of Quality Assurance at Rockland Psychiatric Center for monitoring purposes.

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TERMINATION OF YOUR PARTICIPATION:

Participation in this study is voluntary. It is your choice to be in this study. If you agree to be in this study, you may change your mind at any time and stop being in the study. You may also choose not to answer any study question or not to be in certain parts of the study. If you choose not to be in the study, not to answer certain study questions, or to stop being in the study, there will be no problems or loss of help for you. Choosing not to be in the study, not to answer certain study questions, or to stop being in the study will not prevent you from receiving the services you would ordinarily receive from the Nathan Kline Institute. The Project Director may take you out of the study at any time if: s/he believes it is in best for you; you do not follow study directions and rules; there are any unexpected or serious side effects.

MEDICAL COMPENSATION FOR RESEARCH-RELATED INJURIES:

Federal and New York State rules say that we must tell you about our policy of payment for treatment of research injuries. All forms of medical diagnosis and treatment, whether everyday or new, have some risk of injury. If you have an injury at Nathan Kline Institute as a direct result of being in this research, emergency medical care will be given and there will be help in finding follow up care. There is no promise to pay for medical care and there are no programs to pay you for research injuries. By agreeing to be in this research and signing this form, you do not lose any legal rights. The research staff, the Nathan Kline Institute, The Research Foundation for Mental Hygiene, Inc. is still responsible for negligence.

PAYMENT FOR PARTICIPATION:

You will be paid \$125 for each visit. You will also be reimbursed \$10 per visit to cover transportation costs. If some study procedures are not completed during any visit for any reason, you may be asked by study staff to complete these at another time. This may involve completing procedures at home or an additional visit to NKI. If you chose to complete these additional procedures, you will be reimbursed \$25 for your time.

ADDITIONAL INFORMATION:

You may withdraw your consent for this research and/or the use of your genetics sample at any time by contacting Dr. Milham at 845-398-5469 or Dr. Tobe at 845-398-6556. Dr. Milham would then tell the repository to remove your mental health information and genetic material. We will keep your identity a secret by using a code number that only Dr. Milham and the staff at NKI know. The repository can use this code number to remove your mental health information and genetic material, without ever knowing your name or other personal information. If you choose to have your sample removed, the NIMH will keep a note that the sample was destroyed by request. Research all ready started with your sample would not be stopped and published results would not be removed. However, all new research with your sample will not be possible.

SHARING OF RESEARCH RECORDS:

Many of the studies being done at Nathan Kline Institute/Rockland Psychiatric Center get the same kinds of information, including MRI scans, surveys, mental health information as well as interviews about education, health and family background and psychological tests. In addition to the sharing of research results described above, you may say it is okay for us to share information from this study with other researchers at NKI/RPC. If you give permission, the information shared with other NKI/RPC researchers may include information that identifies you.

Please Initial:		
	Yes, it is okay for these researchers to share information from this study with other NKI/RPC researchers.	
	No, it is not okay for these researchers to share information from this study with other NKI/RPC researchers.	

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	or "No" to the to give general i	TACT: questions below and write your initials if the researchers may contact you in information about the research, or to give information about the test on your
Please Initial:		
I will allow rese	earchers to cont	act me in the future for research purposes.
YES □	NO 🗆	Subject Initials
• I will allow rese	earchers to cont	act me in the future to give general information about the research findings.
YES □	NO □	Subject Initials
GENERAL CONDITI	IONS AND OT	THER INFORMATION:
choice to be you to cont 2. If you have Institute/Ro 3. If you have study, you 398-5821. 4. A copy of to office of the	e in this study mainue. e any questions a pockland Psychia any questions, may call Dr. M this consent for the researchers.	w findings that may influence your decision to participate in this research. Your nay be stopped by the Project Director if in his/her judgment it is not okay for about your rights as a research participant, please contact The Nathan Kline tric Center Institutional Review Board office at (845) 398-2199 or if you have a research-related injury at any time during your time in the ilham (845) 398-5469, Dr. Tobe (845) 398-6556, or Melissa Kramer at (845) rm will be given to you, and a copy will be kept at in a locked file in the
I voluntarily consent to	participate in th	ne research study as described above.
Print Name of Participa	nnt	
Signature of Participant	t	Date
		n, by a study participant with sufficient capacity to consent, who has been given e Institutional Review Board or requested by the study participant.

Date

Print Name of Person Obtaining Consent

Signature of Person Obtaining Consent