

Subject's Name: \_\_\_\_\_  
 Medical Record # \_\_\_\_\_

# Georgia Regents University

## PARENTAL/ GUARDIAN RESEARCH INFORMED CONSENT DOCUMENT

**Protocol/Study Title:** Developmental Gene Discovery Project—Mapping and Identifying New Genes in Uterine and Vaginal Development  
 Identifying New Genes Causing Birth Defects in Children

**Name of Principal Investigator (PI):** Lawrence C. Layman, M.D.

**PI address:** Georgia Regents University  
 BB7514, 1120 15<sup>th</sup> St.  
 Augusta, GA 30912

**PI telephone number:** (706) 721-3832

**Name(s) of Sub-investigators (sub-I):** Hyung Goo Kim, PhD., Phone: (706) 721-5764  
 Lynn P. Chorich, M.A., Phone: (706) 721-7591  
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 Viji Sundaram, M.D., (706) 722-4434

**Sponsor:** Georgia Regents University.

**INVITATION TO TAKE PART IN RESEARCH** : Your child has been invited to participate in a research study that will try to determine the genetic cause for disorders that affect human growth and development.

This document will tell you about:

- important information about the study
- what will happen if you decide to take part in the study
- the purpose of the study
- and the potential risks and benefits of taking part in the study.

The study doctor and/or study staff will:

- discuss the study with you and
- answer all of your questions.



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Taking part in this study is voluntary. Please take the time to read this form carefully. Please ask any questions you may have before you agree to take part in the study. If you decide to take part in this study you will be asked to:

- sign this form
- put your initials on each page.

## **PURPOSE OF STUDY:**

### **What is the Purpose of This Study?**

The purpose of this study is to determine the genetic cause for disorders that affect human growth, development, and reproduction. There are reasons to believe that these conditions can be inherited in families, and we are interested in trying to find out if changes in genes cause these disorders.

## **INFORMATION ABOUT PEOPLE TAKING PART IN THE STUDY:**

Some chromosomal abnormalities or gene mutations may disrupt the function of genes required for normal growth and development. By identifying these genes in people with specific developmental defects (birth defects), we hope to reach a greater understanding of how the human body grows and develops. You will be asked to provide some personal information to the researchers about your child, such as demographic information including race, sex and date of birth, family history, and contact information. You will also be asked to have your child's medical records reviewed to be sure his/her diagnosis fits this study.

### **Why is my child being asked to take part in this study?**

You child has been asked to participate in this research study because he/she is a healthy control or has one or more developmental abnormalities (a birth defect or developmental defect such as \_\_\_\_\_), chromosome problem, cancer, or a reproductive problem such as \_\_\_\_\_.

### **How many people are expected to take part in this study?**

You child will be one of at least 3150 people internationally participating in this study.

### **Can my child take other medication while he/she is taking part in the study?**

You child may participate in this study if he/she is on medications. Please inform the study team about any of your child's medications.



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## STUDY PROCEDURES:

### What will happen to my child in the study?

#### Consent for blood:

Your child will be asked to give about 30 milliliters (two tablespoons) of blood from a vein in their arm one time. From this blood, their white blood cells will be isolated so DNA can be extracted. Some of their white blood cells will be grown to create a permanent cell line which will provide a long-term supply of DNA or RNA (RNA is copied from DNA and gives the code to make proteins) and may be used to check his/her chromosomes. Your child's DNA will then be studied to see if there are changes in the DNA (genetic variants) that may be the cause of the disease or be a marker for the disease, which might help us find the responsible gene. There will be some minor discomfort from having blood drawn and there is a chance of a bruise forming where the needle has been stuck. You will also be asked to have your child's medical records reviewed to be sure the diagnosis fits this study.

**Risk:** There will be some minor discomfort from having blood drawn and there is a chance of a bruise forming where the needle has been stuck. There may be more risks that are not known or not expected.

**Time Required for Participation:** The only time required will be to have a blood sample drawn.

My child's blood may be used for the research study: ☐ Yes \_\_\_\_\_ ☐ No \_\_\_\_\_

#### Consent for cheek swab:

Your child will be asked to have a mouth/saliva swab from which DNA can be extracted. Their DNA will be analyzed and compared with either the DNA from an affected person or healthy control. The healthy control DNA sequence should be normal compared to someone with a known developmental disorder. These studies are important to establish if a real gene variant exists in someone with a developmental disorder.

**Risk:** There will be no discomfort for your child from the mouth swab. There may be more risks that are not known or not expected.

**Time Required for Participating:** The only time required will be doing the actual cheek swab.

My child's cheek swab may be used for the research study:

☐ Yes \_\_\_\_\_ ☐ No \_\_\_\_\_

#### Consent for skin biopsy:

You will be asked to give consent for a skin biopsy for your child. Cells will be grown so that his/her chromosomes and gene function can be studied to see if they could cause his/her condition. Sometimes chromosomes in the blood are not the same as in the skin. Skin biopsies may be performed in several different ways. Your child's will be performed by:



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\_\_\_\_\_ 1) Numbing the skin with a local anesthetic, then using a small punch biopsy, which will remove a small piece of skin. The skin will be covered with a band-aid or tape, and a stitch will be placed if needed.

\_\_\_\_\_ 2) Since your child will be having surgery, a small piece of skin taken from the incision will be removed or skin that would otherwise be discarded (thrown away) will be used.

Skin cells will be grown to create a cell line which will provide a long-term supply of DNA or RNA (RNA is copied from DNA and gives the code to make proteins) and may be used to check your child's chromosomes. Your child's DNA will then be studied to see if there are changes in the DNA (genetic variants) that may be the cause of the disease or be a marker for the disease, which might help us find the responsible gene. You will also be asked to have your child's medical records reviewed to be sure his/her diagnosis fits this study.

**Risk:** There will be some minor discomfort from having a skin biopsy and there is a chance of a bruise forming and a small chance of infection. There may be more risks that are not known or not expected. If your child has a bleeding problem, or a suppressed immune system, or a circulatory problem, your child will not have this performed since it could lead to healing problems.

**Time required for participation:** The only time required will be to have the skin biopsy performed.

My child may have a skin biopsy for the purposes of the research study: ☐ Yes \_\_\_\_\_ ☐ No \_\_\_\_\_

### Consent for tissue collection:

You will be asked to allow a small piece of tissue (relevant to the research) from your child that would otherwise be discarded during surgery to be collected for use in the study. Your child's DNA, RNA, and/or protein will be extracted from the tissue and compared to an affected person or healthy control. These studies are important to establish if a real gene variant is confirmed in someone with a developmental disorder.

For subjects: your child's tissue DNA/RNA/protein will then be studied to see if there are changes that may be the cause of the disease or be a marker for the disease. This might help us find the responsible gene. For healthy controls: your child's tissue DNA/RNA/protein will be used to compare with that of a subject.

**Risk:** There will be no additional risks to your child to have a small piece of discarded tissue taken during surgery that already would have been removed. There may be more risks that are not known or not expected.

**Time required for Participating:** There will be no extra time required in the surgery to have the tissue taken after it is removed by the surgeon.

I will allow a small piece of discarded tissue to be taken from my child during surgery for the purposes of the research study:

☐ Yes \_\_\_\_\_ ☐ No \_\_\_\_\_

### IMAGING CONSENT:

Your child may be asked to be photographed or recorded for research purposes.

☐ Yes \_\_\_\_\_ **I give my consent for my child to be photographed** ☐, or recorded ☐ during his/her participation in this research study. I understand these images will only be used for analysis and research



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documentation. I also understand my child's image may appear in publications, presentations, or teaching material outside the health system. Although their name will not be used, I understand these images may show their face or any part of their face or body. If they do show their face, people may be able to identify him/her in these pictures or tapes. If the eyes are not essential for documentation purposes, an effort will be made to block them.

I understand that I have a right to revoke my child's consent to be photographed, videotaped, or to have other images taken in writing at any time to Dr. Lawrence C. Layman, Georgia Regents University, OB/GYN, IMMAG, BB7514, 1120 15<sup>th</sup> Street, Augusta, Georgia 30912. I understand I may request cessation of photography, videotaping or other imaging of my child during the taping process. I understand that if I wish to revoke this consent, it will apply to the use of my child's images in the future, but will not apply to previously made publications or presentations. I understand my child's photographs, videotapes or other images are considered protected health information and will be maintained in a protected and secure manner as part of his/her confidential research record. Lawrence C. Layman, M.D., who can be reached at (706) 721-3832, will answer any further questions I may have at any time concerning the study. If I have any questions or concerns about the 'rights of research subjects', I may contact the Institutional Review Board at 706-721-1483. In case of emergency, Dr. Layman may be reached at (706) 721-3832.

☐ No \_\_\_\_\_ I do not want photographs, videotaped images, or other images taken of my child.

## INJURY AS A RESULT OF THE STUDY

Because of Georgia Regents University policy, the institution is not able to offer financial compensation should your child be injured as a result of participating in this research. There is very minimal risk of your child participating in this study. However, you are not precluded from seeking to collect compensation for injury related to malpractice, fault, or blame on the part of those involved in the research, including the institution.

The possible risks, which are very minimal, of your child taking part were described to you and talked about with your study doctor. Medical treatment will be provided if your child becomes injured because he/she is taking part in the study. These costs will be paid by the study.

**FOR HEALTHY CONTROLS:** You realize that there is a very small chance that your child might have a mutation in the gene being studied even though your child has no developmental disorder. You will be given the opportunity to decide if you would like your child to be identified and have this result discussed with you. If you choose to be contacted, arrangements will be made with the researchers to discuss your child's findings and to determine if further medical care is recommended.

☐ I want to know if my child has an abnormal result. \_\_\_\_\_ Subject's Initials

☐ I do not want to know if my child has an abnormal result. \_\_\_\_\_ Subject's Initials

## BENEFITS:

The results of this research will not directly benefit your child, but will help researchers identify people at risk for developmental disorders (birth defects) and may provide an understanding of why some people have birth



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defects. The results of this research may also help researchers identify people at risk for developmental disorders before the disease develops and may provide an understanding of why certain people have birth defects.

**ALTERNATIVE TREATMENTS AND THERAPIES:** The alternative is not to participate in the study.

### **ENDING THE STUDY**

#### **Can my child stop taking part in the study?**

You may withdraw your child's consent to stop taking part in the study at any time. If you withdraw the consent, there will be no penalty. If you decide to stop having your child take part in the study for any reason, you must contact the study staff immediately at [706-721-7591](tel:706-721-7591).

#### **If I withdraw my child from the study, can information about him/her still be used and/ or collected?**

If you stop having your child take part in the study the study staff will not collect any more information from your child. The information that the study staff had about him/her before you decided to stop can be used.

#### **Can the study doctor remove my child from the study?**

Yes, the study doctors may stop your child taking part in the research study if the doctor or the sponsor decides to stop the study, or if your child is not eligible to take part in the study.

### **FINANCIAL INFORMATION:**

You will neither be paid nor charged anything for your child participating in this project. You will be responsible for the costs of transportation for your child to participate in the study.

### **USE OF GENETIC SAMPLES**

There is a new federal law called the Genetic Information Nondiscrimination Act (GINA). This law was created to protect you. This law makes it illegal for any of the following to discriminate against you based on your genetic information:

- health insurance companies
- group health plans
- employers with 15 or more employees

A person's genetic tests that are tests that are used to assess:

- genotypes
- mutations
- or chromosomal changes



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The law defines 'genetic information' as information about:

- an individual's genetic tests (including genetic tests done as part of a research)
- genetic tests of the individual's family members (defined as dependents and up to and including 4<sup>th</sup> degree relatives)
- genetic tests of any fetus of an individual or family member who is a pregnant woman, and genetic tests of any embryo legally held by an individual or family member utilizing assisted reproductive technology
- the manifestation of a disease or disorder in family members (family history)
- any request for, or receipt of, genetic services or participation in clinical research that includes genetic services (genetic testing, counseling, or education) by an individual or family member.

Genetic information does not include information about the sex or age of any individual.

Routine tests such as complete blood counts, cholesterol tests, and liver function test are not protected under GINA.

The new law (GINA) prohibits group and individual health insurers from:

- using a person's genetic information in deciding if that person is eligible or the amount of their insurance premiums
- from requesting or requiring that a person undergo a genetic test

The new law (GINA) prohibits employers with 15 or more employees from using a person's genetic information in making employment decisions such as:

- hiring
- firing
- job assignments
- or any other terms of employment

The new law (GINA) does not:

- prevent health care providers from recommending genetic tests to their patients
- mandate coverage for any particular test or treatment
- prohibit medical underwriting based on current health status
- cover life, disability, or long-term care insurance
- apply to members of the military

## **CONFIDENTIALITY:**

**How will the researchers protect my child's privacy and keep information about him/her confidential (private)?**

Any study information about your child will be kept private and will only be given out with your permission. If the results of this study are published, your child's name will not be used. Your research records will be private to the extent allowed by law. In order to make sure the research is done properly, the Institutional Review Board (IRB – the Board that oversees research at Georgia Regents University) may need access to



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information about your participation in this study. If you sign this consent form, you are giving us permission to collect, use and share your child's health information.

Research records that identify your child will be kept private.

- Subject information will be kept in a locked drawer in a locked office or laboratory.
- Computer identification will kept in a secured site that can only be accessed by the investigators
- Any remaining sample of DNA, RNA, or protein will be kept in a locked refrigerator or freezer until it is used.

Your child will not be identified in study records or publications disclosed outside Georgia Regents University.

If you have questions or concerns about the privacy of your child's information please contact the Georgia Regents University Privacy Officer at (706) 721-5631, or through our Toll Free Hotline, 1-800-576-6623. Written inquiries or complaints may be emailed to: [privacy@gru.edu](mailto:privacy@gru.edu) or mailed to the: Privacy Officer c/o the Institutional Review Board, Georgia Regents University, Room CJ-2103, 1120 15<sup>th</sup> Street, Augusta, Georgia, 30912.

### **Eliminating Potential Risks of Sample/ Data Storage:**

For your child's protection, all samples will be stored without identifying patient information. All collected samples will be coded; the codes will be kept in locked files and a secured database, and will be known only to the investigators.

### **PRIVACY NOTICE AND AUTHORIZATION TO USE OR RELEASE (DISCLOSE) HEALTH INFORMATION**

#### **If my child takes part in the study what confidential information about him/her will be collected, used and shared with others?**

If you agree for your child to be in this study, the investigators will collect health information that identifies him/her. We may collect the results of tests, questionnaires and interviews, such as the Subject Clinical Questionnaire. The protected health information that may be used and disclosed includes:

- All information collected during the research described in this informed consent document;
- All protected health information in your child's medical records that is related to the research
- All protected health information collected and maintained by your child's physicians and other healthcare providers.

We will only collect information that is needed for the research. This information has been described in this consent form. If you sign this consent form, you are giving us permission to collect, use and share your child's health information. This permission is called authorization.

### **Banking and Future Use of DNA, RNA, Protein Samples and Cultures**

The DNA, RNA, and protein from blood and/or cells from tissue samples taken from your child may be made available to Georgia Regents University and other scientists engaged in research, which may ultimately lead to the development of medical processes. The sample may also be made available to public and private



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organizations that are participating in research with the Georgia Regents University and/or Georgia Regents Medical Center. Georgia Regents University and/or Georgia Regents Medical Center make no commitment to provide financial compensation or property rights to you.

Please read each sentence below and think about your choice. After reading each sentence, circle "Yes" or "No".

1. Do you give permission for some of your child's DNA or cells that were left over from this research to be used for future research studies related to this study?

☐ **Yes** Subject Initials \_\_\_\_\_

☐ **No** Subject Initials \_\_\_\_\_

2. Do you give permission for some of your child's DNA or cells that were left over from this research study to be used for future research studies not related to this study?

☐ **Yes** Subject Initials \_\_\_\_\_

☐ **No** Subject Initials \_\_\_\_\_

### **Who will collect, use, and share my child's confidential information and samples?**

Lawrence C. Layman, M.D., Hyung Goo Kim, PhD., Lynn P. Chorch, M.A., Megan E. Sullivan, B.S.(Department of Obstetrics & Gynecology, Georgia Regents University) and other investigators involved in this research,

may share your PHI and/ or results of your study with other researchers. In addition, your records may be reviewed in order to meet federal or state research regulations. Reviewers may include authorized representatives from National Institutes of Health (NIH), the Institutional Review Board (IRB – the Board that reviews research at the Georgia Regents University), , and others. If your research record is reviewed by any of these groups, they may also need to see your entire medical record.

In addition, the researchers may also share your child's health information without your written permission to people who are planning a future research project, so long as any information identifying your child does not leave our facility.

Information about people who have died may be shared with researchers using the information of deceased persons, as long as the researchers agree not to remove from our facility any information that identifies these individuals.

Data from this study may be used in medical publications or presentations. The information will be de-identified so that individual subjects cannot be recognized and the information will no longer be considered Protected Health Information (PHI).



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Please be aware that once private information is disclosed, it is subject to re-disclosure by the recipient and can no longer be considered protected.

**Can I review a copy of my child's confidential information that has been collected, used or shared with others under this authorization?**

If your child's research records are used for decisions related to your child's clinical care, then you have the right to review this information and request changes. This is limited to information about your child's treatment, and does not include information related to procedures or tests that are for research purposes only. You may access this information only after the study analysis is complete. You have the right to know who has and who will see your child's records.

To request this information, or for any questions related to the privacy of your child's health information, you may contact the Enterprise Privacy Officer at 706 721-5631, or through our Toll Free Hotline, 1-800-576-6623. Written inquiries or complaints may be emailed to: [privacy@gru.edu](mailto:privacy@gru.edu) or mailed to the: Enterprise Privacy Officer, Georgia Regents University, C/O GRU IRB Office, Pavilion III, CJ-2103, 1120 15th Street, Augusta, Georgia, 30912.

**What happens to me if I cancel my authorization?**

If you change your mind about having your child be in the study, you may withdraw at any time. If you want your child to stop, you need to send a letter to the researcher at the following address: Dr. Lawrence C. Layman, Georgia Regents University, OB/GYN, BB7514, 1120 15<sup>th</sup> St, Augusta, GA 30912. Your letter needs to say that you have changed your mind and do not want the researcher to collect and share your child's health information. Your child may also need to leave the research study if we cannot collect any more health information. We may still use the information we have already collected. We need to know what happens to everyone who starts a research study, not just those people who stay in it.

Georgia Regents University may not refuse to treat your child whether or not you sign this authorization.

**How long will my child's confidential information be used and shared with others?**

The information that is collected for research will be analyzed for many years and it is not possible to know how long this analysis and follow-up will take. Therefore, you are allowing access to this information indefinitely.

**Am I required to sign this consent and authorization and allow the researchers to collect, use, and share my child's confidential information with others?**

You do not have to sign this Authorization.



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Your child's participation in this study is voluntary. You may take back your consent and withdraw from the study now or at any time in the future. This decision will not change your child's status as a non-research patient. It will not result in a penalty or loss of care or other benefits.

You have read this form that serves as an informed consent document. This form also serves as your authorization for Georgia Regents University and/or to use and release (disclose) your PHI in the manner described as a study participant. You and your child have been given the opportunity to ask questions about the information on this form. If you or your child have questions later, you can contact Dr. Lawrence Layman at 706-721-3832. You will be given a signed copy of this form for your records.

**Who can I contact if I have questions about the study?**

You can ask questions about the study at any time. Please contact Dr Layman at 706-721-3832 if you have questions about:

- More information of the study
- Study procedures
- Leaving the study before it is finished
- Expressing a concern about the study
- Any other questions you may have about the study

**Who can I contact to discuss problems, concerns, or questions I may have about the research?**

Contact the Georgia Regents University Institutional Review Board at (706)-721-1483 to discuss problems, questions, complaints, obtain information, offer input or find out about your rights as a research subject.

**Who can I contact if I have questions about the privacy of my child's health information because my child is taking part in the study?**

If you have questions or concerns about the privacy of your child's information please contact the Enterprise Privacy Officer at 706 721-5631, or through our Toll Free Hotline, 1-800-576-6623. Written inquiries or complaints may be emailed to: [privacy@gru.edu](mailto:privacy@gru.edu) or mailed to the: Enterprise Privacy Officer, Georgia Regents University, C/O GRU IRB Office, Pavilion III, CJ-2103, 1120 15th Street, Augusta, Georgia, 30912.

**Who can I contact if my child has a research emergency or questions about the research study?**

Dr. Layman, 706-721-3832

**Date of Expiration of Authorization:**

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The information that is collected for research will be analyzed for many years and it is not possible to know how long this analysis and follow-up will take. Therefore, you are allowing access to your child's information indefinitely.

### **Voluntary Participation:**

Taking part in this research study is voluntary and your and your child's choice. You may withdraw your child from the study at any time simply by refusing to have your child's blood drawn or a skin biopsy performed. You do not need to give a reason. Your child will not be treated differently if you choose for your child not to take part in the study. If your child stops, contact the study staff immediately. Withdrawing from the study will not affect your child's other medical care. Information that the study staff had about your child before you decided for your child to stop being in the study can be used.

Lawrence C. Layman, M.D., who can be reached at (706) 721-3832 will answer any further questions you may have at any time concerning the study, the procedures, and any injuries that may appear to be related to the research. If you have any questions or concerns about the 'rights of research subjects', you may contact the Institutional Review Board at (706) 721-1483. In case of emergency, Dr. Layman may be reached at (706) 721-3832.

### **What documents will be given to me if my child is in the study?**

- This "Research Informed Consent Document"

### **STATEMENT OF CONSENT:**

I have read this form and the information in it was explained to me. I agree for my child to take part in this research study. All of my questions were answered. My child's taking part in the study is voluntary. I will receive a copy of this form for my records. I am not giving up my legal rights by signing this form.

\_\_\_\_\_  
Subject's Name (print)

\_\_\_\_\_  
Subject's Signature

\_\_\_\_\_  
Date and Time (00:00)

\_\_\_\_\_  
\*Parent/Guardian's Name (print)

\_\_\_\_\_  
\*Parent/Guardian's Signature Date and Time(00:00)

\*The individual above verifies that he/she is the natural parent and/or legal guardian of \_\_\_\_\_ and as such has the legal authority to consent to the study outlined above



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GRU IRB

Approved on:	10/12/2015
Expires on:	06/23/2016
Study number:	611184-8

\_\_\_\_\_  
 Witness' name (print)

\_\_\_\_\_  
 Witness' signature

\_\_\_\_\_  
 Date and Time(00:00)

*My signature indicates that I was present during the informed consent process and that informed consent was given freely by the subject or their legally authorized representative. My signature also indicates that I was present when the subject or their legally authorized representative signed the form.*

## INVESTIGATOR STATEMENT

I acknowledge that I have discussed the above study with this participant and answered all of their questions. They have voluntarily agreed for their child to participate. I have documented this action in the child's's medical record source documents or research chart source documents, as applicable. A copy of this signed document will be placed in the child's medical record or research chart, as applicable. A copy of this document will be given to the subject or the subject's legally authorized representative.

\_\_\_\_\_  
 Printed name of investigator obtaining consent

\_\_\_\_\_  
 Signature of investigator obtaining consent

\_\_\_\_\_  
 Date and Time(00:00)



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