



WELCOME FROM YOUR PROJECT TEAM!

LabCorp Clinical Trials has been selected by University of California San Francisco to perform the DNA Extraction for Protocol POINT NCT00991029.

As such, we have the pleasure of providing you and your team with all the necessary information and instructions in order to make our collaboration as successful as possible.

The LabCorp team members designated for this study are identified below. We encourage you to contact us as frequently as necessary to answer any questions and address any concerns. We are here to provide all needed study assistance and support.

Your Site Support Associate will be your first avenue of communication on most study related items.

LabCorp Clinical Trials operates Monday through Friday between 8:00 AM and 6:00 PM Eastern Standard Time (EST). All calls received after business hours, on holidays, or on weekends will be forwarded to the Clinical Trials voice mailbox. If a message is left during this time, your call will be returned promptly on the next business day. There is also an on-call phone (919-602-2139) which is carried by our Site Support Team for **EMERGENCIES ONLY**. Emergency on-call hours extend from 6:00 PM to 10:00 PM EST, Monday through Friday, and 9:00 AM to 5:00 PM (EST) on Saturdays and Sundays.

All individuals associated with the clinical portion of this study should carefully review all applicable instructions and procedure descriptions prior to submitting or collecting samples. If there are any questions or concerns, please contact your Site Support Associate, listed below.

We wish you great success with your study and look forward to the receipt of your samples.

Sincerely,
Melanie Little
Project Manager

Site Support Associate	Jaeson Hackett	TEL: 1-919-474-4394 FAX: 1-919-474-4385 E-MAIL: hacketj@labcorp.com
Project Manager	Melanie Little	TEL: 1-919-474-4357 FAX: 1-919-474-4385 E-MAIL: littlem@labcorp.com

LabCorp Clinical Trials – Cranford, New Jersey:	1-877-788-8861
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LABORATORY MANUAL ~ US Sites ONLY

University of California San Francisco
POINT NCT00991029



Sponsor:

University of California San Francisco
675 Nelson Rising Lane, Room 402A
San Francisco, CA 94158

Central Laboratory Facilities:

LabCorp Clinical Trials
Center for Esoteric Testing
1447 York Court
Burlington, NC 27215
USA

LabCorp Clinical Trials
LabCorp CMBP
1904 Alexander Drive
RTP, NC 27709
USA

LabCorp Biorepository
724 Chipola Street
Kannapolis, NC 28083
USA



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SUMMATION OF CHANGES

Description of Change	Section	Date Added	Version
Initial Release	N/A	23-Oct-2012	1.0
Added 10 mL Cryovial to the DNA+Plasma kit. Updated Schedule of Assessments, req. form, and Collection and Preparation chart.	Chapter 1, Chapter 2, Chapter 3	10-Apr-2013	2.0
Added "to -90°C"	Chapter 4	02-May-2013	3.0
Removed references to Friday shipments and Saturday delivery	Chapter 4	02-May-2013	3.0
Added "to -90°C" to footnote 4	Chapter 1	15-May-2013	4.0
Removed references to Friday shipments and Saturday delivery. Added reminder samples can only be received Mon-Thur.	Appendix 1	15-May-2013	4.0
Replaced Tamika Hawkins with Brittney Whitworth as Site Support Associate	Welcome Page, Appendix 6	16-May-2013	4.0
Updated Mnemonic for 10 mL cryovial to 10CRY	Appendix 6	16-May-2013	4.0
Updated contact title (from Monitor to Site Support Associate)	Welcome Page, Appendix 6	12-Nov-2013	5.0
Updated contact information (replaced Rosanna Mantini with Ajesh Raju)	Welcome Page	12-Nov-2013	5.0
Replaced packaging illustration (from Esoterix to current inventory)	Action Plan	12-Nov-2013	5.0
Updated examples	Chapter 2	12-Nov-2013	5.0
Replaced packaging illustrations to reflect current inventory	Chapter 4	12-Nov-2013	5.0
Updated holiday schedule	Appendix 2	12-Nov-2013	N/A
Updated RTP CLIA certificate	Appendix 4	12-Nov-2013	N/A
Updated Dr. Hancock's CV	Appendix 5	12-Nov-2013	N/A
Updated Shipment Alert Form contact information (replaced Rosanna Mantini with Ajesh Raju)	Appendix 6	12-Nov-2013	N/A
Updated Project Manager (Ajesh Raju to Melanie Little) and Site Support Associate (Brittney Whitworth to Jaeson Hackett)	Welcome Page, Appendix 6	05-Aug-2015	6.0
Removed duplicate courier information in Chapter 1 and revised Chapter numbers	Table of Contents	05-Aug-2015	6.0
Updated formatting for the Schedule of Assessments and removed the internal LabCorp mnemonics	Chapter 1	05-Aug-2015	6.0

SUMMATION OF CHANGES

Description of Change	Section	Date Added	Version
Removed 2013 and 2014 holidays	Appendix 2	05-Aug-2015	N/A
Updated RTP CAP and Burlington CAP/CLIA	Appendix 4	05-Aug-2015	N/A
Updated CVs	Appendix 5	05-Aug-2015	N/A

ACTION PLAN



Courier Information



Select the Correct Sampling Kit



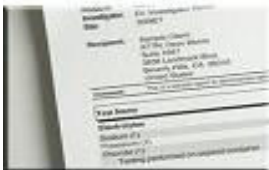
Complete the Laboratory Requisition Form



Collect and Prepare the Specimens



Package for Transport



Result Report

For the transportation of samples from your site to the lab, one or more couriers may have been selected. If you receive additional or supplemental information with courier instructions, please review the material and then file in Chapter 1.

Organize pickup with the selected courier company

- **Latest Booking Time:** This time is provided by the courier company and is the latest possible time to arrange a pickup of samples for that day. To ensure the timely pickup and delivery of your samples to the central laboratory, it is imperative to alert the courier company before this "Latest Booking Time".
- **Booking Number:** Once you have scheduled your pickup, you should be given a booking or pickup number. Please document this number as confirmation of your request.
- **Latest Pickup Time:** This is the latest possible time during a day for the courier to collect the samples from your site and meet the specified delivery time to the central laboratory. This time is based on the routine service provided.
- **Problems with Pickup:** If you experience any problem with the pickup of your samples (e.g. courier is not showing up), **please contact LabCorp immediately**. Be prepared to provide the booking number and the airway bill number so we can work with the courier company to resolve the problem. Do not wait until the next day to inform LabCorp of the issue, as this can delay the processing of your samples and possibly compromise the integrity of the specimens.

Dry Ice

- If dry ice is needed for the transport of samples, ordering details can be found in Chapter 1.

Holidays

- Please check your local holidays before shipping samples, as customs and courier services may not be operational prior to, during or following an observed holiday in your country.
- The LabCorp facilities are closed on Sundays, and on certain holidays (See Appendix 1).
- It is advisable to avoid shipments immediately prior to any of the dates listed in Appendix 1. To ensure a timely delivery, please schedule your shipment no later than 3 days before any holiday.

**FOR SPECIFIC COURIER INFORMATION REGARDING YOUR STUDY,
PLEASE REFER TO CHAPTER 1.**

- You were provided with sampling kits and some bulk supplies.
- Each kit contains the required materials to collect, prepare, and return the samples to LabCorp Clinical Trials.
- The requisition form and barcode labeled items, included inside each kit box, are preprinted and contain the **same** barcode number. **Do not transfer the contents between kits.**
- All label information must be completed prior to shipping the samples.

PLEASE MAKE SURE YOU HAVE SELECTED THE CORRECT SAMPLING KIT:

- Check **PROTOCOL**
- Check **KIT TYPE**
- Check **EXPIRATION DATE**

If the incorrect sampling kit is selected for the visit, samples may be missing or drawn unnecessarily. Verification of those samples in question may delay the reporting of results.

In case your kits are about to expire

Order new kits using the reorder form provided in Appendix 5.
Expired kits can be destroyed as per local regulations.

In case you have an unsuccessful collection

Should an item be broken or wasted, replace it with an item from the bulk supplies.
There are additional bar-coded labels in each collection kit. Affix one of the extra bar-coded labels in a way that can be easily scanned (e.g. lengthwise for a tube). Make sure the “Lot Expiration” barcode is not covered. Complete the information required on the label, including the name of the procedure required.

Reordering supplies

To reorder supplies, make a copy of the study-specific Reorder Form provided in Appendix 5.
Complete the Supply Reorder Form and fax to the fax number listed on top of the form.

**When reordering supplies, please allow a minimum of 5 to 7 working days
for assembly and delivery of your supplies.**

**FOR EXAMPLES OF STUDY-SPECIFIC REQUISITION FORMS,
PLEASE REFER TO CHAPTER 3.**

The Laboratory Requisition Form is included in the sampling kit

- Specimens submitted for DNA Extraction/plasma storage **must** have an accompanying requisition form.
- The barcode number on the requisition form **must match** the barcode number on the preprinted label.
- The subject and collection information on the requisition form **must match** the subject information on the label.
- The subject information **must** be written legibly and completely.
- All requested subject and collection information **must** be entered for each visit to ensure proper sample processing within the laboratory.

NOTE: If there are any discrepancies as outlined above, verification from your facility will be required.

0522171031

Requisition Number: [Barcode]

LabCorp
CLINICAL TRIALS

LABORATORY TEST REQUEST FORM

**SPONSOR NAME
PROTOCOL ID**

Investigator: FIRST NAME LAST NAME

Site: SITE NUMBER

LSN: ACCOUNT

Contact who completed requisition form:
Name: _____
Phone # (with country code): _____

Instructions:
- Complete all information with ball-point pen.
- Keep bottom copy for your records. Submit at least one copy of requisition with each specimen shipment.
- Refer to LabCorp Investigator Manual for detailed specimen collection, processing and shipping instructions.

Testing Required:
Chemistry P&A
Hematology Aspartate
T4 HbA1c
TSH FSH

Optional Tests
(Select all that apply)
 Serum beta hCG
 PK Storage

For LabCorp Use Only

Expected Container Type	# Containers Expected Back	# Containers Received	Condition Received		
			Amb	Frz	Refrig
2 mL EDTA, whole Blood - Amb	1				
4 mL EDTA, Whole Blood - Amb	1				
5 mL Transfer tube, Plasma - Refrig	1				
3 mL Cryovial, Plasma - Frz	3				
3 mL Cryovial, Serum - Frz	3				
3 mL Cryovial (BU), Serum - Frz	2				

Accessioner's Initials/Date: _____

General Comments: _____

INCLUDE ONE COPY OF REQUISITION IN EACH SHIPMENT

RETAIN ONE COPY OF REQUISITION FOR YOUR RECORDS

COMPLETE ALL INFORMATION AS REQUESTED ON THE REQUISITION

1. **Use the International Date Format:** (ex. 15-OCT-2012)

For month format (**MMM**), please use following abbreviations:

JAN (January)	JUL (July)
FEB (February)	AUG (August)
MAR (March)	SEP (September)
APR (April)	OCT (October)
MAY (May)	NOV (November)
JUN (June)	DEC (December)

2. **Use the 24 Hour Time Format:** (ex. 14:30)

3. **IF APPLICABLE:**

- **Be sure to mark the correct Visit.**

4. **Please do not insert any information into the “For LabCorp Use Only” section.**

- All samples must arrive with a matching requisition enclosed in the specimen bag.
- All samples must be identified with the corresponding Barcode/Subject Label.
- Specimen Requirements have been carefully determined. It is critically important that the instructions in this manual and on the lab requisition form are followed precisely. Examples of Specimen Requirements may include:
 - Sample Type (e.g. serum, plasma, whole blood, urine, tissue)
 - Tube/Container Type (e.g. Red Top Tube [no preservative], Sodium Heparin, Formalin)
 - Temperature (e.g. Ambient, Refrigerated, Frozen)
 - Amount of sample (e.g. minimum required or full draw - no short samples)

NOTE: Shipments are subject to local, national, and international laws and regulations. Individuals preparing shipments are responsible for ensuring all applicable requirements, laws and certifications are met. The shipment boxes, provided to you by LabCorp or the courier, are compliant with International Air Transport Association (IATA) guidelines.

The technical information presented in this manual does not qualify as regulatory training or certification. Any questions regarding certification in the preparation, handling or shipment of dangerous goods should be directed to the appropriate authorities or regulatory agencies.

For a list of the IATA approved training schools, please contact your local office (details can be found at www.iata.org/about/offices) or the IATA main facility in Montreal, Canada (+ 1 514 874 0202).

- All study related data will be forwarded as per specifications from the sponsor.
- Any missing information or discrepancies could delay the transfer of data.

**FOR STUDY-SPECIFIC RESULT REPORTING,
PLEASE REFER TO CHAPTER 6.**



University of California San Francisco

POINT NCT00991029



Study-specific Instructions

~ US Sites ONLY ~



SCHEDULE OF ASSESSMENTS

Visit Name/Visit Number					Baseline- DNA*	Baseline DNA + Plasma
Visit Type					S	S
Test Panel/Name	Specimen Type	Collection Tube	Sample Tube/ Cryovial	Samples permitted to be batched		
			(Coming back)			
DNA Extraction- Whole blood*	Whole Blood	10 ml EDTA (parent, aliquot)**	10 ml EDTA	N	C	
Plasma- storage	Plasma	10 ml EDTA	6 x 2ml Cryovial	Y****		F
DNA Extraction- Buffy coat			10 ml Cryovial*** (parent, aliquot)**			F

*Only US sites will be participating in DNA only portion of study or they can participate in the DNA+Plasma portion. Sites OUS will participate in DNA + Plasma portion of study.

**10ml EDTA tube containing either whole blood refrigerated (US sites only) or 10ml Cryovial containing RBCs and buffy coat transferred from the 10ml EDTA tube (US and all sites OUS) shipped to regional lab for accessioning and labeling. Aliquot (child) label will be printed to accompany samples to Burlington DNA Lab. Once DNA is extracted, the extracted DNA is placed into 2ml Sarstedt tubes, 'child' aliquot label affixed, frozen and shipped to Biorepository Lab in NC for storage until shipment to Mayo Clinic in Florida every 3 months.


***Following centrifugation at the site, plasma is transferred to 2ml Cryovials and frozen on-site. The remaining RBCs and buffy coat is transferred from the 10ml EDTA to a 10ml Cryovial and is frozen and shipped along with 2ml Cryovials.

****Samples can be batched at the site and shipped every 3 months only if the samples are stored in a -70°C freezer or colder. Refer to Appendix 1 for Sample Routing Flowchart.


Notes:

S: Scheduled / F: Frozen / C: Cooled

TEST REQUISITION EXAMPLE



Requisition Number:



% r e q u i s i t i o n n u m b e r %

LABORATORY TEST REQUEST FORM

Investigator:

Site:

LSN:

Contact who completed requisition form:
Name: _____
Phone # : _____
(with country code-International sites only)

Instructions:

- Complete all information with ball-point pen.
- Keep bottom copy for your records. Submit at least one copy of requisition with each specimen shipment.
- Refer to LabCorp Investigator Manual for detailed specimen collection, processing and shipping instructions.

- ENSURE PATIENT CONSENT FORM IS SIGNED BEFORE SAMPLES ARE COLLECTED.

Testing Required:
DNA Extraction

Visit: Baseline DNA	
Subject ID:	<input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/>
Randomization #:	<input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/>
Collection Date:	<input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> - <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> - <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> <small>DAY MONTH YEAR</small>
Collection Time: <small>(24 hr clock)</small>	<input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> : <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> <small>HH MM</small>

For LabCorp Use Only

Expected Container Type	# Containers Expected Back	# Containers Received	Condition Received		
			Amb	Frz	Refrig
10 mL EDTA, Whole Blood - Refrig	1				

Accessioner's Initials/Date: _____

General Comments:


LabCorp BVBA
 Intercity Business Park
 Generaal De Wittelaan L11 A2
 2800 Mechelen Belgium


Clearstone Central Laboratories
 (China) Inc.,203-204 Shidao Soloon
 2 Tongji Middle Road, BDA
 Beijing 100176 PR China

Clearstone Central Laboratories (Singapore)
 Block 33, #03-06, Marsiling Industrial Estate Road 3
 Woodlands Central Industrial Estate
 Singapore 739256

LabCorp Clinical Trials
 750 Walnut Avenue
 Cranford, NJ 07016
 United States

TEST REQUISITION EXAMPLE

Requisition Number:

 % r e q u e s t i o n n u m b e r %



LABORATORY TEST REQUEST FORM

Investigator: _____

Site: _____

LSN: _____

Contact who completed requisition form:

Name: _____

Phone #: _____
 (with country code-International sites only)

Instructions:

- Complete all information with ball-point pen.
- Keep bottom copy for your records. Submit at least one copy of requisition with each specimen shipment.
- Refer to LabCorp Investigator Manual for detailed specimen collection, processing and shipping instructions.

- ENSURE PATIENT CONSENT FORM IS SIGNED BEFORE SAMPLES ARE COLLECTED.

IMPORTANT: When aliquoting plasma from EDTA tube, do NOT pipette buffy coat and ensure it remains in the EDTA tube. After plasma is transferred equally into 6 x 2mL cryovials, transfer the packed RBCs & buffy coat from the EDTA tube into the 10mL cryovial. Complete information on all tube labels & freeze all cryovials. Empty EDTA tube can be discarded.

Testing Required: DNA Extraction

For LabCorp Use Only

	Visit:	Baseline DNA + Plasma
	Subject ID:	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
	Randomization #:	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
	Collection Date:	<input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> DAY MONTH YEAR
	Collection Time: (24 hr clock)	<input type="text"/> <input type="text"/> : <input type="text"/> <input type="text"/> HH : MM
	Was a refrigerated centrifuge used? <input type="checkbox"/> Yes <input type="checkbox"/> No	
	At what freezer temperature were samples stored? <input type="checkbox"/> -20°C <input type="checkbox"/> -70°C <input type="checkbox"/> Other: _____°C (enter temperature)	
	Site Comment: (Not entered into LabCorp database)	

Expected Container Type	# Containers Expected Back	# Containers Received	Condition Received		
			Amb	Frz	Refrig
10 mL Cryovial, Buffy Coat - Frz	1				
2 mL Cryovial, Plasma - Frz	6				

Accessioner's Initials/Date: _____

General Comments:

LabCorp BVBA
 Intercity Business Park
 Generaal De Wittelaan L11 A2
 2800 Mechelen Belgium

Clearstone Central Laboratories
 (China) Inc., 203-204 Shidao Soloon
 2 Tongji Middle Road, BDA
 Beijing 100176 PR China

Clearstone Central Laboratories (Singapore)
 Block 33, #03-06, Marsiling Industrial Estate Road 3
 Woodlands Central Industrial Estate
 Singapore 739256

LabCorp Clinical Trials
 750 Walnut Avenue
 Cranford, NJ 07016
 United States

SPECIMEN COLLECTION AND PREPARATION

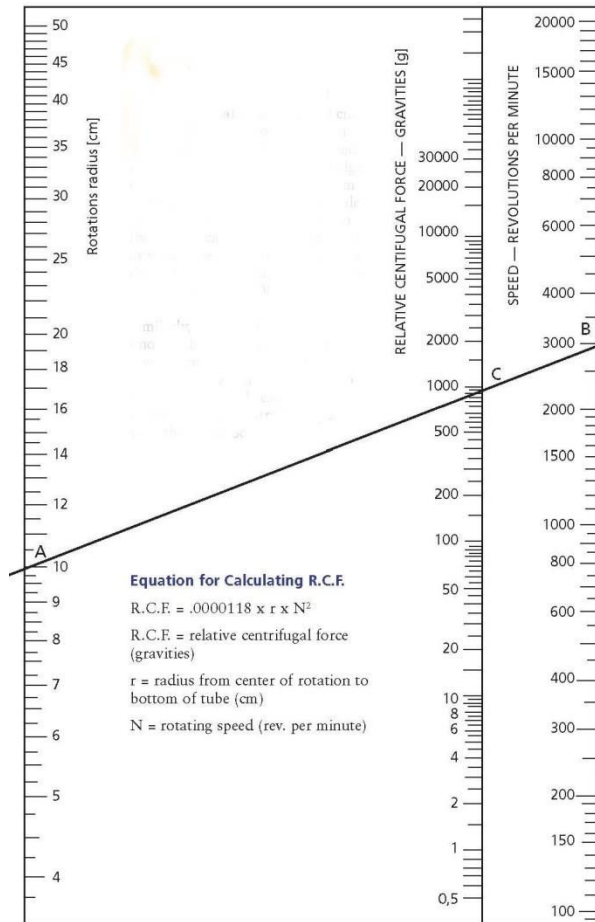
General Reminders

- Throughout specimen collection and handling, proper universal precautions should be practiced. Precautions such as collection gloves, protective eye wear, and lab coats should be worn throughout the collection and specimen handling procedure. Particular caution should be observed during venipuncture.
- **Confirm that Informed Consent for the biomarkers study was obtained.**

SPECIMEN COLLECTION AND PREPARATION

CENTRIFUGATION

Guidelines for the Conversion of Relative Centrifugal Force (g) to RPM (Rotations per Minute)



Radius (cm)	G-force	RPM
10	1200	3280
12	1200	2990
14	1200	2770
16	1200	2590
18	1200	2440
20	1200	2310
22	1200	2200
24	1200	2110
26	1200	2030
28	1200	1950
30	1200	1890



Radius (cm)	G-force	RPM
10	1500	3660
12	1500	3340
14	1500	3090
16	1500	2890
18	1500	2730
20	1500	2590
22	1500	2470
24	1500	2360
26	1500	2270
28	1500	2190
30	1500	2110

Note: If you need further assistance, please call your LabCorp Site Support Associate.

SPECIMEN COLLECTION AND PREPARATION





NOTE: Instructions outlined below are for United States sites participating in the DNA ONLY portion of study.

For US sites that will participate in the DNA+Plasma portion of the study and for sites outside of the US, please refer to the following page.

VISITS	PROCEDURES	COLLECTION TUBES	INSTRUCTIONS / STABILITY	TUBES TO BE SENT BACK	SHIPPING TEMP.	SHIPPING Frequency / Courier / Location
<p>ONLY United States Sites</p> <p>Baseline DNA</p>	<p>DNA Extraction (Whole Blood)</p>	 <p>10 mL EDTA Tube</p>	<p>Completely fill the lavender top EDTA tube.</p> <p>Gently invert the tube at least 6-8 times immediately after collection to avoid clotting.</p> <p>Complete the label with the SubjID (Subject ID) and Random# (Randomization Number).</p> <p>Fill out the Laboratory Request Form.</p> <p>Make sure all tubes and containers are tightly closed to avoid leakage during transport. Insert tube into AQUI Pak (6 place tube holder in absorbent material), place inside largest compartment of specimen bag and seal.</p> <p>Insert a copy of the completed requisition form in the outer pocket of the specimen bag. (Retain one copy for your records.)</p> <p>Immediately place the specimen bag in a 4°C refrigerator. Tubes should remain in the plastic specimen bags in an upright position.</p> <p><u>Avoid exposure to extreme hot or cold temperatures.</u></p>	 <p>10 mL EDTA Tube</p>	<p>Cooled/ Refrigerated</p>	<p>Ship the next business day, or within 4 days of date of draw</p> <p>Monday through Thursday ONLY</p> <p>via FedEx</p> <p>to Research Triangle Park, NC</p>

SPECIMEN COLLECTION AND PREPARATION

NOTE: Instructions outlined below are for DNA+Plasma portion of the study.

VISITS	PROCEDURES	COLLECTION TUBES	INSTRUCTIONS / STABILITY	TUBES TO BE SENT BACK	SHIPPING TEMP.	SHIPPING Frequency / Courier / Location
Baseline DNA + Plasma	Plasma Storage	 10 mL EDTA Tube	<ul style="list-style-type: none"> -Completely fill the lavender top EDTA tube. -Gently invert the tube at least 6-8 times immediately after collection to avoid clotting. -Complete the label with the SubjID (Subject ID) and Random# (Randomization #). -Fill out the Laboratory Request Form. -Separate the plasma from the cells by centrifuging at 1000 x g for 15 minutes. -Refrigerated centrifuge is preferred. Centrifuge within 30 minutes to 1 hour of collection. -Using a pipette included in the sampling kit, transfer 0.7 mL of plasma from the lavender top EDTA tube into each of the six Cryovial aliquot tubes. -Be careful not to disturb the buffy coat layer between the blood cells and the plasma. (NOTE: Buffy coat is critical for DNA extraction and if no buffy coat present, no DNA or minimal DNA is extracted). * -Secure caps on the plasma Cryovial aliquot tubes. -Complete labels for the aliquot tubes with the SubjID (Subject ID) and Random# (Randomization Number). -Transfer leftover blood cells and buffy coat into the 10 mL Cryovial. -Complete label for 10ml Cryovial with the SubjID (Subject ID) and Random# (Randomization Number). -Make sure all tubes and containers are tightly closed to avoid leakage during transport. -Insert all tubes into AQUI Pak (6 place tube holder in absorbent material), place inside largest compartment of specimen bag and seal. Insert a copy of the completed requisition form in the outer pocket of the specimen bag. (Retain one copy for your records.) <div style="text-align: center;">  </div> <p>IMMEDIATELY PLACE THE SPECIMEN BAG IN THE FREEZER. During freezer storage, specimens should remain in the plastic specimen bags in an upright position. NOTE: The 10 mL Cryovial containing the buffy coat and extracted plasma will be shipped together on dry ice.</p>	 Six 2 mL Cryovials	FROZEN	Ship the specimens on dry ice within 4 days of collection if the leftover cells and plasma are frozen in a -20°C, -30°C or -40°C freezer. Specimens can be stored in a -70°C to -90°C freezer for up to three months before shipping on dry ice. Monday through Thursday ONLY via FedEx to Research Triangle Park, NC
	DNA Extraction Buffy coat			 10 mL Cryovial (contains RBCs & Buffy Coat)		

* If you accidentally draw up some of the buffy coat layer into one of the pipettes, please make a note on the Laboratory Requisition Form. This may affect the accuracy of biomarker levels.

SPECIMEN PACKAGING FOR TRANSPORT

Study-specific ATTENTION POINTS:

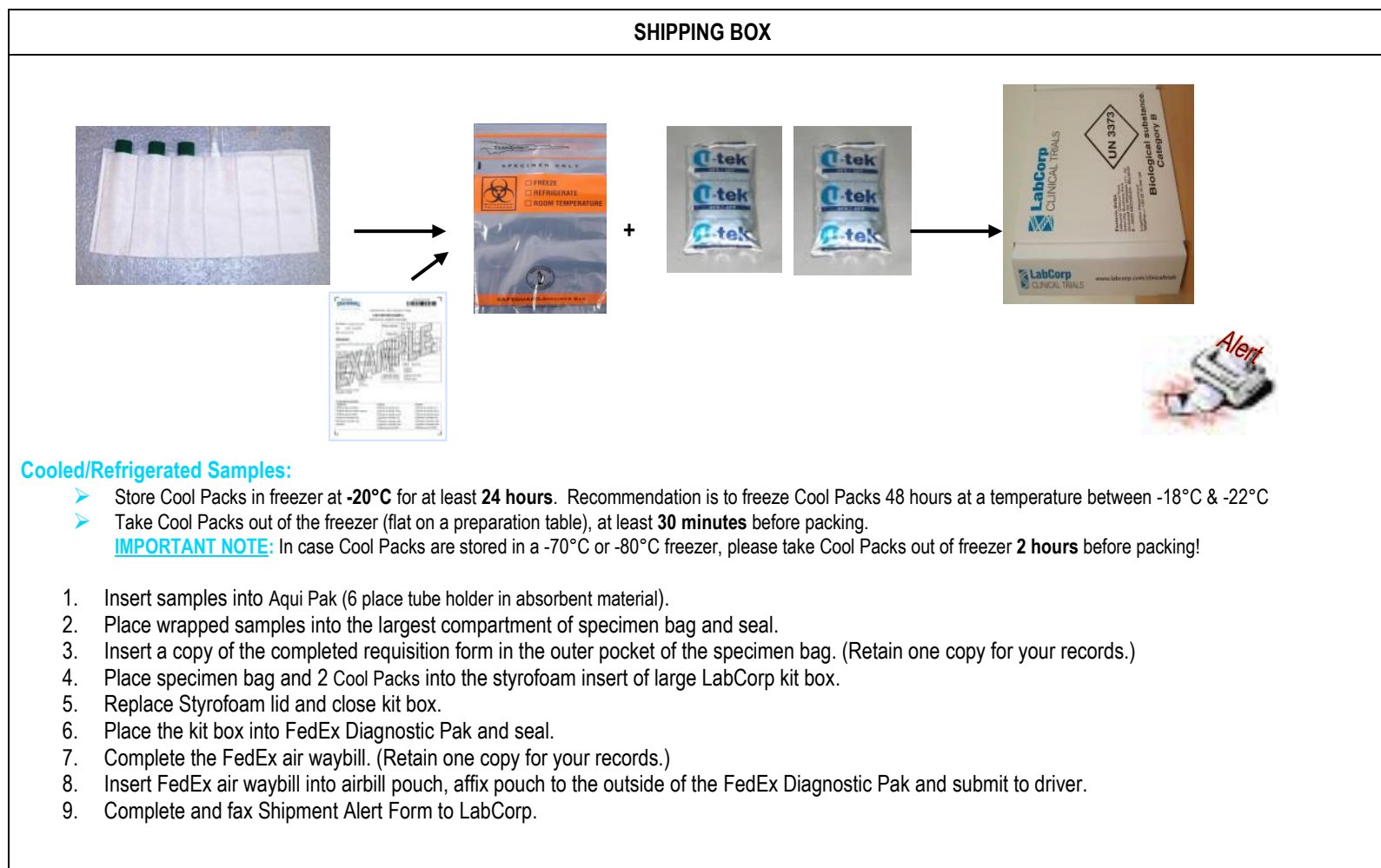
- All samples have to be identified with the corresponding Barcode/Subject Label.
- All tubes must be tightly closed to avoid leakage during transport.
- Samples of multiple subjects may be shipped in one container and should remain in their individual specimen bags, along with corresponding requisition forms.
- Check local and national holidays (See Appendix 1).
- **In the event samples cannot be shipped on the Day of Collection (or outside cut-off times):**
 - For sites participating in DNA only portion of the study: store whole blood EDTA tubes refrigerated on site and ship within 4 days of collection.
 - For sites participating in the DNA + Plasma portion of study and WITHOUT* a -70°C freezer, store all samples at -20°C, -30° or -40°C and ship within 4 days of collection

***Note:** Sites with a -70°C to -90°C freezer can keep samples on site for up to 3 months before shipment to LabCorp on dry ice.
- For samples that are to be shipped **Cooled/Refrigerated**, use Cool Packs for transport.
 - LabCorp kit includes 2 Cool Packs.
 - Please make sure to store Cool Packs in freezer at **-20°C** for at least **24 hours** before using them for refrigerated transport. Recommendation is to freeze Cool Packs 48 hours at a temperature between -18°C & -22°C.
 - Before packing shipment, take Cool Packs out of the freezer **30 minutes** and store at room temperature (flat on a preparation table).
 - **IMPORTANT NOTE:** In case Cool Packs are stored in a -70°C or -80°C freezer, please take Cool Packs out of freezer **2 hours** before packing!
- **You must fill out all FedEx air waybills completely**
 - Air waybills are provided and are pre-printed with site and LabCorp information. (See Chapter 1 - Courier Services)
 - Sign and Date where indicated.
 - Retain a copy for your records.
- **Forward Shipment Alert Form**
 - On the day that you ship your specimens, make a copy of the Shipment Alert Form located in Appendix 5.
 - Complete and fax the Shipment Alert Form to the **attention of your Site Support Associate.**

SPECIMEN PACKAGING FOR TRANSPORT

Non-Infectious **COOLED/REFRIGERATED** Shipment

Refrigerated samples can be shipped the next business day, or within 4 days from date of blood draw, Monday through Thursday ONLY.




SPECIMEN PACKAGING FOR TRANSPORT

Non-Infectious **FROZEN** Shipment - **Monday through Thursday ONLY**

Ship the specimens on dry ice within 4 days of blood draw if the leftover cells and plasma are frozen in a -20°C, -30°C or -40°C freezer.
Specimens can be stored in a -70°C to -90°C freezer for up to three months before shipping on dry ice.

SHIPPING BOX



The diagram illustrates the packaging process for frozen specimens. It shows a specimen bag with samples, a requisition form, and the final sealed shipping box with an 'Alert' sticker.

Frozen Samples:

1. Insert samples into absorbent wrap.
2. Place wrapped samples inside the largest compartment of specimen bag and seal. (**Never place dry ice in the specimen bag!**)
3. Insert a copy of the completed requisition form in outer pocket of specimen bag. (Retain one copy for your records.)
4. Add one layer of dry ice to bottom of styrofoam section of the frozen shipper.
5. Place specimen bag containing samples on top of dry ice.
6. Cover specimen bag with dry ice until box is $\frac{3}{4}$ full to completely full. (Do not overfill, as pressing down on box top may crack cryovials.)
7. Replace styrofoam lid and seal shipper box.
8. Complete the FedEx air waybill. (Retain one copy for your records.)
9. Insert the FedEx air waybill into airbill pouch, affix pouch to the outside of the frozen shipper box, and submit to driver.
10. Complete and fax Shipment Alert Form to LabCorp.

NOTE: Samples of multiple subjects may be shipped in one container and should remain in their individual specimen bags, along with corresponding requisition forms.

REPORTING

LabCorp will not perform any testing. Extracted DNA samples and frozen plasma aliquots will be shipped to Mayo Clinic for analysis.

When contacting LabCorp, ALWAYS have the Requisition Number available, since this is the LabCorp primary identifier.

FEDERAL EXPRESS COURIER INFORMATION

Federal Express is selected for the transport of your biological samples. Federal Express airbills, with pre-printed site and LabCorp information, have been provided.

Web-site Address:

You can track your shipment by entering your airbill number on the following web site: www.fedex.com.

Dry Ice: (if applicable)

Sites are responsible for providing their own dry ice. Dry ice will not be provided by courier services. Obtain dry ice from a local vendor - you may access www.dryiceinfo.com for local vendor locations.

**For Specimen Packaging and Transport instruction,
please refer to Chapter 4**

Note:

Federal Express will not accept any shipment without the outer cardboard box. LabCorp supplies a bulk supply of cardboard/styrofoam shippers at initiation. If you need to replenish your supply of styrofoam shippers, please contact your LabCorp Site Support Associate or complete and fax the Supply Reorder Form located in Appendix 6.

**REMINDER: Specimens can only be shipped
to LabCorp Clinical Trials
MONDAY THROUGH THURSDAY**

NOTE: Shipments are subject to local, national, and international laws and regulations.

Individuals preparing shipments are responsible for ensuring all applicable requirements, laws and certifications are met. The shipment boxes, provided to you by LabCorp or the courier, are compliant with International Air Transport Association (IATA) guidelines.

The technical information presented in this manual does not qualify as regulatory training or certification. Any questions regarding certification in the preparation, handling or shipment of dangerous goods should be directed to the appropriate authorities or regulatory agencies.

For a list of the IATA approved training schools, please contact your local office (details can be found at www.iata.org/about/offices) or the IATA main facility in Montreal, Canada (+ 1 514 874 0202).

FEDERAL EXPRESS COURIER INFORMATION

AIRBILLS:

Airbill and labels for [Refrigerated](#) shipments within the United States

Reminder: If specimens are shipped on Friday, the site must check the **“SATURDAY Delivery”** box on the airbill and attach several **Saturday Delivery Labels** to each package. Specimens may not arrive at the laboratory until Monday if Saturday delivery is not requested and/or Saturday Delivery Labels are missing.

Federal Express observes certain major holidays. Please review the holiday list in Appendix 2 to avoid scheduling subjects when FedEx service is unavailable.

The Federal Express pickup time should be determined the morning of each subject visit. Contact Federal Express at **1-800-GO FEDEX (1-800-463-3339)** for schedules and available pickup times specific for your area. Notify the Federal Express dispatcher that you require a pickup and provide the following information:

- Your name
- Your address
- Exact location of the container

Airbill for shipments within the United States

“Date” of shipment must be indicated

1 From: Please print and press hard.
 Date: _____ Sender's FedEx Account Number: 8766 2998 3312

2 Your Internal Billing Reference: (No 24 characters will appear on invoice)

3 To Recipients:
 Name: _____ Phone: _____
 Company: _____
 Address: _____
 City: _____ State: _____ ZIP: _____

4 Express Package Service: *To most locations. NOTE: Service order has changed. Please select carefully.
 Packages up to 150 lbs. For packages over 150 lbs., see the new FedEx Express Freight US Airbill.

Next Business Day:
 FedEx First Overnight
 FedEx Priority Overnight
 FedEx Standard Overnight

2 or 3 Business Days:
 NEW FedEx 2Day A.M.
 FedEx 2Day
 FedEx Express Saver

5 Packaging: *Declared value limit \$500.
 FedEx Envelope* FedEx Pak* FedEx Box FedEx Tube Other

6 Special Handling and Delivery Signature Options:
 SATURDAY Delivery
 No Signature Required
 Direct Signature
 Indirect Signature

7 Payment Bill to:
 Sender Recipient Third Party Credit Card Cash/Check

8 Total Packages: _____ **Total Weight:** _____ **Total Declared Value:** _____

9 The FedEx US Airbill has changed. See Section 4.
 For shipments over 150 lbs., order the new FedEx Express Freight US Airbill.

10

FEDERAL EXPRESS COURIER INFORMATION

AIRBILLS:

Airbill and labels for **Frozen** shipments within the United States

"Date" of shipment must be indicated

1 From Please print and press hard
Date _____
Shipper's Name _____ Phone () _____
Company _____
Address _____
City _____ State _____ ZIP _____

2 Your Internal Billing Reference _____

3 To Recipients Name _____ Phone () _____
Company _____
Address _____
City _____ State _____ ZIP _____

4 Express Package Service *To most locations
Next Business Day
 FedEx First Overnight
 FedEx Priority Overnight
 FedEx Standard Overnight
2 or 3 Business Days
 NEW FedEx 2Day A.M.
 FedEx 2Day
 FedEx Express Saver

5 Packaging *Declared value limit \$500.
 FedEx Envelope* FedEx Pak* FedEx Box FedEx Tube Other

6 Special Handling and Delivery Signature Options
 SATURDAY Delivery
 No Signature Required
 Direct Signature
 Indirect Signature
Does this shipment contain dangerous goods?
 No Yes Dry Ice Cargo Aircraft Only

7 Payment Bill to: _____
 Sender Recipient Third Party Credit Card Cash/Check
Total Packages _____ Total Weight _____ Total Declared Value _____

The FedEx US Airbill has changed. See Section 4.
For shipments over 150 lbs., order the new FedEx Express Freight US Airbill.

For Dry Ice Shipments:
(Complete "Dangerous Goods" section)

• Mark "Shipper's Declaration not required"

• Mark "Dry Ice" checkbox

• Indicate "Number of pkgs."

• Indicate "Weight" (*in kilograms*)

Indicate
"Shipper's
Name & Address"

Shipper's Declaration not Required.
Dry Ice amount must be in kilograms.
Net wt. 2 lbs. = 1 kg.

Always include this label with contents shown in the "Marking and Quantity of Dangerous Goods" area:
1. Dry Ice UN1845
2. _____ kg (lb)

DRY ICE, kg.
9
UN1845

Shipper's name and Address _____
Consignee Name and Address _____

Indicate
"Consignee
Name & Address"

(Example - Dry Ice Label)

US HOLIDAYS OBSERVED BY LABCORP CLINICAL TRIALS

- LabCorp will be closed on the following Holidays, and also on Sundays.
- Please keep these dates in mind as you prepare to schedule subjects for blood draws.
- Remember to contact courier(s) for their list of holidays and reduced services.

HOLIDAY	2015	2016
New Year's Day	Thursday, January 1	Friday, January 1
Memorial Day	Monday, May 25	Monday, May 30
Independence Day	Saturday, July 4 (observed Friday, July 3)	Monday, July 4
Labor Day	Monday, September 7	Monday, September 5
Thanksgiving Day	Thursday, November 26	Thursday, November 24
Christmas Day	Friday, December 25	Sunday, December 25 (observed Monday, Dec. 26)

HOLIDAY	2017	2018
New Year's Day	Sunday, January 1 (observed Monday, Jan. 2)	Monday, January 1
Memorial Day	Monday, May 29	Monday, May 28
Independence Day	Tuesday, July 4	Wednesday, July 4
Labor Day	Monday, September 4	Monday, September 3
Thanksgiving Day	Thursday, November 23	Thursday, November 22
Christmas Day	Monday, December 25	Tuesday, December 25

REFERENCE RANGE

NOT APPLICABLE



LABORATORY ACCREDITATION

A valid Laboratory Accreditation is provided with the initial supply.

For online accreditation information, access:

<http://www.covance.com/customers/investigators/investigator-tools-and-resources/accreditations-and-certifications.html>

LABORATORY ACCREDITATION



Advancing Excellence

**Accredited
Laboratory**



The College of American Pathologists

certifies that the laboratory named below

**Laboratory Corporation of America
Center for Molecular Biology & Pathology
Research Triangle Park, North Carolina
Arundhati Chatterjee, MD**

LAP Number: 7182269
AU-ID: 1396239
CLIA Number: 34D1008914

*has met all applicable standards for accreditation and
is hereby accredited by the College of American Pathologists'
Laboratory Accreditation Program. Reinspection should occur prior
to May 24, 2016 to maintain accreditation.*

Accreditation does not automatically survive a change in director, ownership,
or location and assumes that all interim requirements are met.

Chair, Commission on Laboratory Accreditation

President, College of American Pathologists

LABORATORY ACCREDITATION

**CENTERS FOR MEDICARE & MEDICAID SERVICES
CLINICAL LABORATORY IMPROVEMENT AMENDMENTS
CERTIFICATE OF ACCREDITATION**

<p>LABORATORY NAME AND ADDRESS LABCORP OF AMERICA HOLDINGS CYTOGENETICS & CYTOLOGY & FLOW CYTOMET 1904 ALEXANDER DRIVE STE C RESEARCH TRIANGLE PARK, NC 27709</p> <p>LABORATORY DIRECTOR ARUNDHATI CHATTERJEE MD</p>	<p>CLIA ID NUMBER 34D1008914</p> <p>EFFECTIVE DATE 08/11/2013</p> <p>EXPIRATION DATE 08/10/2015</p>
--	--

Pursuant to Section 353 of the Public Health Services Act (42 U.S.C. 263a) as revised by the Clinical Laboratory Improvement Amendments (CLIA), the above named laboratory located at the address shown hereon (and other approved locations) may accept human specimens for the purposes of performing laboratory examinations or procedures.
This certificate shall be valid until the expiration date above, but is subject to revocation, suspension, limitation, or other sanctions for violation of the Act or the regulations promulgated thereunder.



Judith A. Yost
Judith A. Yost, Director
Division of Laboratory Services
Survey and Certification Group
Center for Medicaid and State Operations

86 Certs2_071713


If you currently hold a Certificate of Compliance or Certificate of Accreditation, below is a list of the laboratory specialties/subspecialties you are certified to perform and their effective date:

LAB CERTIFICATION (CODE)	EFFECTIVE DATE		LAB CERTIFICATION (CODE)	EFFECTIVE DATE
GENERAL IMMUNOLOGY (220)	04/09/2007			
ROUTINE CHEMISTRY (310)	09/14/2009			
HEMATOLOGY (400)	06/18/2010			
CYTOGENETICS (900)	08/11/2003			




FOR MORE INFORMATION ABOUT CLIA, VISIT OUR WEBSITE AT WWW.CMS.HHS.GOV/CLIA
OR CONTACT YOUR LOCAL STATE AGENCY. PLEASE SEE THE REVERSE FOR
YOUR STATE AGENCY'S ADDRESS AND PHONE NUMBER.
PLEASE CONTACT YOUR STATE AGENCY FOR ANY CHANGES TO YOUR CURRENT CERTIFICATE.

LABORATORY ACCREDITATION



Advancing Excellence

**Accredited
Laboratory**



The College of American Pathologists

certifies that the laboratory named below

**Laboratory Corporation of America
Atlantic Divisional Reg Lab & Ctr for Esoteric
Tes
Burlington, North Carolina
William F. Hancock, MD**

CAP Number: 1396901
AU-ID: 1179680
CLIA Number: 34D0655059

*has met all applicable standards for accreditation and
is hereby accredited by the College of American Pathologists'
Laboratory Accreditation Program. Reinspection should occur prior
to February 14, 2017 to maintain accreditation.*

Accreditation does not automatically survive a change in director, ownership,
or location and assumes that all interim requirements are met.

R. M. Scullen
Chair, Commission on Laboratory Accreditation

W. F. Hancock, F. C. P.
President, College of American Pathologists

Rec'd 4-16-15

LABORATORY ACCREDITATION

CENTERS FOR MEDICARE & MEDICAID SERVICES CLINICAL LABORATORY IMPROVEMENT AMENDMENTS	
<i>CERTIFICATE OF ACCREDITATION</i>	
LABORATORY NAME AND ADDRESS	CLIA ID NUMBER
LABORATORY CORPORATION OF AMERICA HOLD 1440 YORK COURT BURLINGTON, NC 27215	34D0954530
	EFFECTIVE DATE
	04/28/2015
LABORATORY DIRECTOR	EXPIRATION DATE
GEORGE C MAHA PHD, JD, MT (A)	04/27/2017
<p>Pursuant to Section 353 of the Public Health Services Act (42 U.S.C. 263a) as revised by the Clinical Laboratory Improvement Amendments (CLIA), the above named laboratory located at the address shown hereon (and other approved locations) may accept human specimens for the purposes of performing laboratory examinations or procedures.</p> <p>This certificate shall be valid until the expiration date above, but is subject to revocation, suspension, limitation, or other sanctions for violation of the Act or the regulations promulgated thereunder.</p>	
	 Karen W. Dyer, Acting Director Division of Laboratory Services Survey and Certification Group Center for Clinical Standards and Quality

CV MEDICAL DIRECTOR

Name: Arundhati Chatterjee

Education:

<u>High School</u>		<u>From</u>	<u>Attended</u>	<u>To</u>	<u>Graduate</u>
<u>Name of High School</u>					
Multipurpose Government High School		1965		1967	Yes
<u>College</u>	<u>Major</u>	<u>From</u>	<u>Attended</u>	<u>To</u>	<u>Degree</u>
<u>Name of College or University</u>					
Bethune College, Calcutta, India	Physics, Chemistry, Biology, English	9/67		8/68	Premedical
Calcutta Medical College University of Calcutta, West Bengal, India	Medical Studies	1968		1975	MBBS

Job Experience:

<u>Institution</u>	<u>Title</u>	<u>Job Duties</u>	<u>From</u>	<u>To</u>
LabCorp CMBP RTP, NC	Medical Director	Biochemical Genetics, Forensic Identity, Histology, Oncology, Molecular Genetics and Products	9/07	Present
	Subspecialty Medical Director	Uropathology	5/04	Present
	Subspecialty Medical Director	Uropathology/Cytopathology	5/04	9/07
	Pathologist and Director of Cytopathology and Surgical Pathology	Anatomic and Clinical Pathology	1994	5/04
Womack Army Medical Center, Fort Bragg, NC	Staff Pathologist and Chief, Clinical Pathology	Anatomic and Clinical Pathology	1988	1993
Roche Biomedical Laboratories, Fayetteville, NC and Pinehurst, NC	Director of Cytopathology Laboratory	Cytopathology	1990	1994

Awards, Licenses, Board Certifications:

<u>Award Certification</u>	<u>Date</u>	<u>Certification Number</u>	<u>Specialization</u>
American Board of Pathology	7/98 5/87		Cytopathology Anatomic and Clinical Pathology
North Carolina	1987	32199	
South Carolina	2004	27328	
Arizona	1985	15613	

Laboratory Corporation of America™ Holdings (LabCorp)
Center for Molecular Biology and Pathology
1912/1904 Alexander Drive

page 1 of 1

Research Triangle Park, NC 27709

Signature A. Chatterjee

Effective: 1/21/2015
Review Date 1/22/15

CV MEDICAL DIRECTOR

George C. Maha
 May 7, 2015

GEORGE C. MAHA, JD, Ph.D., MT(ASCP)
Ph.D. Medical Geneticist (ABMG)
Associate Vice President
Laboratory Director
 Laboratory Corporation of America™ Holdings
 DNA Identification Testing Division
 1440 York Court
 Burlington, North Carolina 27215-3361
 Telephone 1-336-436-7307
 Fax 336-436-7384
 E-mail: Mahag@LabCorp.com
 (November 2014)

Education

SCHOOL	DATES	DEGREE/PROGRAM
Upper Dublin Senior High School Fort Washington, PA	1969-1972	Diploma
St. Louis University St. Louis, Missouri	1972-1976	BA (Biology)
Department of Biology St. Louis University St. Louis, Missouri	1976-1979	MS
Biological Station University of Montana Flat Head Lake, Montana	1977	Summer Session
Department of Genetics and Development University of Illinois Urbana, Illinois	1978-1982	Ph.D.
University of Maryland College Park	1982	Continuing Education (Microbiology)
Malcolm Grow USAF Medical Center Department of Pathology Andrews AFB, Maryland	1982-1983	Biomedical Laboratory Internship
North Carolina Central University School of Law Durham, North Carolina	1991 – 1995	JD
Michigan State University East Lansing, Michigan	2006	Continuing Education (Molecular Biology)

CV MEDICAL DIRECTOR- continued

Certifications

Admitted to the North Carolina Bar (1995)

Ph.D. Medical Geneticist (1987) - American Board of Medical Genetics

Laboratory Director (1987) - New York State Department of Health

Medical Technologists (1983) - American Society of Clinical Pathologist

Organizations

American Society of Clinical Pathology (ASCP)

American Association of Blood Banks (AABB)
Member Parentage Testing Program Unit 1999-2003
Chair, Relationship Testing Standards Program Unit 2004 – 2008
Consultant, Relationship Testing Standards Program Unit 2009 – Present

College of American Pathologists
Consultant, Histocompatibility/Identity Testing Committee 2009 – 2011
Member, Histocompatibility/Identity Testing Committee 2012 - Present

American Bar Association (ABA) - Vice Chair, Paternity Committee 1996 - 1997

National Conference of Commissioners on Uniform State Laws
Observer to revision of the Uniform Parentage Act - 1997 - 2000

Positions Held

Laboratory Director, May 2000 – Present
Technical Leader, November 2004 - Present
Associate Vice President, May 2008 - Present
DNA Identification Testing Division
Laboratory Corporation of America Holdings
1440 York Court, Burlington, NC 27215-2230

Director of Laboratory Operations, January 1993 - 2000
HLA & Department of Parentage Evaluation
Laboratory Corporation of America Holdings (Formerly Roche Biomedical Laboratories, Inc.)
1440 York Court, Burlington, NC 27215-2230

Associate Director, June 1987 - December 1992
HLA & Department of Parentage Evaluation
Roche Biomedical Laboratories, Inc., 1447 York Court, Burlington, NC 27215-2230

Chief, Medical Genetics Laboratory, October 1984 - June 1987
USAF Medical Genetics Center, Keesler AFB, MS

Chief, Clinical Laboratory Services, September 1983 - September 1984
USAF Regional Hospital, Incirlik, Turkey

CV MEDICAL DIRECTOR- continued

Teaching Experience

School	Dates	Course Taught
St. Louis University (Teaching Assistant)	1975-1978	General Biology Comparative Anatomy
St. Louis University (Lecturer)	1976-1977	General Biology
University of Illinois (Teaching Assistant)	1978-1982	Experimental Genetics General Genetics Evolution Genetics and Society Histology
University of Maryland, European Division (Lecturer)	1983-1984	Human Genetics General Biology
Embry-Riddle Aeronautical University (Lecturer)	1985	Flight Physiology
University of Southern Mississippi (Lecturer)	1987	Medical Genetics

Military Service

Captain, United States Air Force,
Biomedical Science Corps
1982-1987
Honorable Discharge: June 30, 1987

Awards and Honors

United States Air Force Humanitarian Service Award
United States Air Force Commendation Medal, First Oak Leaf Cluster

Significant Scientific Continuing Education

Bode Mid-Atlantic: DNA and Investigators Workshop, Crystal City, VA	2014
25 TH International Symposium on Human Identification, Phoenix, AZ	2014
24 TH International Symposium on Human Identification, Atlanta, GA	2013
AABB, 65 th Annual Meeting, Boston, MA	2012
23 rd International Symposium on Human Identification, Nashville, TN	2012
American Academy of Forensic Sciences, Annual Scientific Meeting, Atlanta, GA	2012
22 nd International Symposium on Human Identification, National Harbor, MD	2011
AABB, 64 th Annual Meeting, San Diego, CA	2011
AABB, 63 rd Annual Meeting, Baltimore, MD	2010
15th National CODIS Conference, Reston , VA	2009
AABB, 62nd Annual Meeting, New Orleans, LA	2009

CV MEDICAL DIRECTOR- continued

14th National CODIS Conference, Arlington , VA	2008
AABB, 61st Annual Meeting, Montreal, Quebec, Canada	2008
13 th National CODIS Conference, San Francisco, CA	2007
AABB, 60th Annual Meeting, Anaheim, CA	2007
AABB, 59th Annual Meeting, Miami, FL	2006
AABB, 58th Annual Meeting, Seattle, WA	2005
AABB, 57th Annual Meeting, Baltimore, MD	2004
American Association of Blood Banks, 56th Annual Meeting, San Diego, CA	2003
13th International Symposium on Human Identification, Phoenix, AZ	2002
American Association of Blood Banks, 55th Annual Meeting, Orlando, FL	2002
12th International Symposium on Human Identification, Biloxi, MS	2001
American Association of Blood Banks, 54th Annual Meeting, San Antonio, TX	2001
ASHI / SEOPF Regional Workshop, Raleigh, NC	2001
American Association of Blood Banks, 53rd Annual Meeting, Washington, DC	2000
10th International Symposium on Human Identification, Coronado Springs Resort, Orlando, Florida	1999
American Association of Blood Banks, 52nd Annual Meeting, San Francisco, CA	1999
Statistics and Population Genetics for Forensic Science, The Southern Association of Forensic Scientists, 1996 Fall Conference, Raleigh, North Carolina	1996
American Association of Blood Banks, 47th Annual Meeting, San Diego, California	1994
DNA Fingerprinting, NISS (National Institute of Statistical Science) Forum, Chapel Hill, North Carolina	1993
1991 International Symposium on Human Identification., Madison, Wisconsin	1991
41st Annual Meeting, The American Society of Human Genetics, Cincinnati, Ohio	1990
American Association of Blood Banks, DNA for Parentage Testing: Current State of the Art, Leesburg, Virginia	1989
The International Symposium on Human Identification, Data Acquisition and Statistical Analysis for DNA Typing Laboratories, Madison, Wisconsin	1989
DNA Genetic Testing: Forensic Implications For New Mexico, Family Law and Criminal Law Sections of the State Bar of New Mexico and the New Mexico Human Services Department,	1989
39th Annual Meeting, The American Society of Human Genetics, New Orleans, LA	1988
South-Eastern Organ Procurement Foundation, Histocompatibility Specialist Course, Phoenix, Arizona	1988
National Institutes of Health, Medical Genetics Course, The Foundation for Advanced Education in the Sciences, Inc., Bethesda, Maryland	1987

Abstracts and Publications

Erin M. Hall, James R. Fuller, Sarah E. Haugh, and **George C. Maha**. Use of PowerPlex® 18D in the Examination of Genomic Instability in the Short Tandem Repeat DNA Loci used for Human Cell Line Authentication Testing. 25TH International Symposium on Human Identification, Phoenix, AZ. Abstract 49.

CV MEDICAL DIRECTOR- continued

Patricia M. Kopko, Arthur B. Eisenbrey, **George C. Maha**. College of American Pathologists HLA-B 27 Proficiency Testing Data Reveals Increased False Positive Rates for Flow Cytometry Methods. Histocompatibility/Identity Committee, College of American Pathologists, Northfield, IL, USA.. Human Immunology 74 (2013) 149 Abstract 144-P.

Kuppareddi Balamurugan, Martin Tracey, Uwe Heine, **George C. Maha** and George T. Duncan. "Mutation at the human D1S80 minisatellite locus," The Scientific World Journal, Volume 2012, Article ID 917235, 7 pages doi:10.1100/2012/917235.

Bryan Butt, Uwe Heine, Mark Ladd, **George C. Maha**. Evaluation of a New Multiplex Containing the D6S1043 Locus. 22nd International Symposium on Human Identification. October 3–6, 2011, National Harbor, Maryland. Presentation.

Maha, G.C. and Fuller, J.R. Allele Frequencies for Penta C in Caucasian, African American, American Indian, Asian and Hispanic Populations. [Internet] 2011. Available from: <http://www.promega.com/resources/articles/profiles-in-dna/2011/allele-frequencies-for-penta-c/>

George C. Maha, Uwe Heine, Mark Ladd, Gary Stuhlmiller, Katie Oostdik, Benjamin Krenke, Douglas Storts. Implementation of a 21-Locus Panel for Human relationship Testing. 21st International Symposium on Human Identification. October 11 – 14, 2010 San Antonio, Texas. Abstract.

George C. Maha, Lloyd C. Osborne, Gary M. Stuhlmiller and Cynthia Taves, Calculating the Paternity Index for Loci with Apparent Mutations in STR Testing. Parentage Minisymposium at the 13th International Symposium on Human Identification October 7 –10, 2002. Phoenix, AZ. Abstract.

Gary M. Stuhlmiller, Lloyd C. Osborne, Uwe Heine, Cynthia J. Taves, Karl-Hans Wurzinger and **George C. Maha**. Altered Primer Binding Sites and Non-Symmetrical Amplification in CODIS 13 Loci. Parentage Minisymposium at the 13th International Symposium on Human Identification October 7 –10, 2002. Phoenix, AZ. Abstract.

L. M. Randolph, David Wade and **G. C. Maha**. Should You Consider DNA Retrieval At Your Funeral Home?, Funeral Home Technology, January 2001:69.

Maha, G. C. and J. M. Mason. 2000. Genetic Privacy and Paternity Testing. Delaware Lawyer. 18(2):14-33.

Maha, G. C. 1999. Determining Paternity After Death: Genetic Testing When a Party is Not Available. In N. M. Vitek, ed. Disputed Paternity Proceedings. Matthew Bender & Company, Inc., New York, NY.

Maha, G. C. 1997. Analysis of Genetic Test Results for Courtroom Use. In N. M. Vitek, ed. Disputed Paternity Proceedings. Matthew Bender & Company, Inc., New York, NY.

Mason, J. M., **G. C. Maha**, G. M. Stuhlmiller, U. Heine and M. Eisenberg. 1995. Application of DNA Analysis to Human Identification. In R. W. Allen and J. P. AuBuchon, eds., Molecular Genetics in Diagnosis and Research. American Association of Blood Banks, Bethesda, MD.

Maha, G. C., J. M. Mason, G. M. Stuhlmiller, U. Heine. 1995. Pitfalls of Paternity Testing Based Solely on PCR Typing of Minisatellites and Microsatellites - Reply. Am. J. Hum. Genet. 56:1505 - 1506.

Eisenberg, M., R. Guerrieri, **G. C. Maha**, J. M. Mason, U. Heine, L. Osborne, G. Stuhlmiller and B. Burkhart. 1993. PCR-Based Analysis for Identity Testing. In Proceedings from The Fourth International Symposium on Human Identification 1993. Promega Corporation, Madison.

Wurzinger, K., **G. Maha**, G. Stuhlmiller, U. Heine, R. Barwick, C. Harris, L. Osborne, L. Tuckwiller, C. White, and J. Mason. 1991. Apparent DNA Mutations Found in Paternity Cases at Loci D2S44, D17S79 and D14S13. Transfusion 31(Supp):51S. Abstract.

CV MEDICAL DIRECTOR- continued

Eisenberg, M., **G. C. Maha**, J. M. Mason and J. Chimera. 1991. AMPFLP Analysis in Parentage Testing. In Proceedings from the Second International Symposium on Human Identification 1991. New Technologies, Standardization of Methods and Data Sharing for DNA Typing Laboratories. Promega Corporation, Madison.

Britton, L.C., A.T. Bombard, D.T. Rigdon, and **G.C. Maha**. 1989. Amniotic fluid alpha-fetoprotein (AF-AFP) levels and cytogenetic abnormalities: Are they related? American College of Obstetricians and Gynecologists/Armed Force District Meeting, Washington, DC. 5-9 Nov. 1989. ****NOTE**, this paper won the best paper in Obstetrics by a resident out of 200 papers at this meeting. Abstract.

Highton, R., **G. C. Maha**, & L. R. Maxson. 1989. Biochemical Evolution of the Slimy Salamanders of the *Plethodon glutinosus* Complex in the Eastern United States. Illinois Biological Monograph; 57. Univ. of Illinois Press, Urbana and Chicago

Fox, W.A., J.M. Mason, **G.C. Maha**, & R.S. Foster, 1988. Automation in HLA Phenotyping For Parentage Studies. 14th Annual Meeting American Society for Histocompatibility and Immunogenetics. Oct. 16, 1988. Abstract.

Maha, G.C. 1987. Letter to the Editor: Reply to Dr. Wians, et. al. Proceedings of the Society of Armed Forces Medical Laboratory Scientists. 16(2):31.

Maha, G.C. 1986. Maternal Serum Alpha Fetoprotein Testing: A New Medico-Legal Problem for the Clinical Laboratory. Proceedings of the Society of Armed Forces Medical Laboratory Scientists. 15(4):11.

Maha, G.C. 1984. Beta-HCG Pregnancy Tests - How Good Are They? Proceedings of the Society of Armed Forces Medical Laboratory Scientists. 13(1):25.

Maha, G.C., L.R. Maxson, and R. Highton. 1983. Immunological Evidence for the Validity of *Plethodon kentucki*. J. Herpetology 17(4):398-400.

Dowling, H. G., R. Highton, **G. C. Maha** and L. R. Maxson. 1983. Biochemical Evaluation of Colubrid Snake Phylogeny. J. Zool. Lond. 201:309-329.

Maha, G.C. 1982. Comparative Molecular Systematics of Select Amphibians and Reptiles. Ph.D. Thesis, Univ III at Urbana.

Maha, G.C., L.R. Maxson, R. Highton, and H. Dowling. 1981. Relationships of the Colubrid Snakes: A Molecular Approach. 24th Annual Meeting of the Society for the Study of Amphibians and Reptiles and 29th Annual Meeting of the Herpetologists' League. Abstract.

Presentations

An introduction to Paternity Evaluation - Interpretation and Problems. Wisconsin Child Support Enforcement Fall Conference. Green Bay, WI. September 28, 29, & 30, 1987.

Paternity Testing Made Easy. Maryland Joint Child Support Council Sixth Annual Conference. Ocean City, MD. October 7, 8, & 9, 1987.

Blood Testing. Illinois Department of Public Aid, Bureau of Child Support Enforcement Management Meeting. Chicago, IL. Nov. 4 & 5, 1987.

Paternity Establishment: New Technologies in Blood Testing & Interpretation of Test Results. West Virginia Conference on Child Support Enforcement. Morgantown, WV. November 16-18, 1987.

Paternity Testing. Richland County Child Support Enforcement Agency, Mansfield, OH. September 14, 1988

CV MEDICAL DIRECTOR- continued

Current Issues in Paternity Testing. North Carolina Child Support Council. Raleigh, NC. April 5-7, 1989.

Eastern Regional Interstate Child Support Association (ERICSA) 26th Annual Training Seminar. Kansas City, MO. June 11-15, 1989.

Beyond HLA-A. A Look at New Blood Testing Methods. Florida Family Support Council. 1989 Annual Training Conference, St. Petersburg Beach, FL. June 28-30, 1989.

Interpreting Blood Test Reports. Missouri Office of Prosecution Services Statewide Training Seminar. Osage Beach, MO. Aug. 30 - Sep. 1, 1989.

Future Beyond DNA. 11th Annual Washington Family Support Conference. Olympia, WA. September 13-15, 1989.

HLA and DNA Testing. Human Resources Administration, Office of Legal Affairs, Manhattan Family Court. New York, NY. September 27, 1989.

Paternity Testing: Procedures and Benefits. 3rd Annual Southern Regional Association of State and Territorial Public Health Laboratory Directors, Austin, TX. October 5 & 6, 1989.

DNA Fingerprinting - The Definitive Test. Edufacts '89 (North Carolina Society for Medical Technologists) New Bern, NC. Oct. 11-13, 1989.

Paternity Testing. How and Why it Works. Understanding the Test. Missouri Child Support Enforcement Association Region VI District Meeting. Springfield, MO. Oct. 27, 1989.

Blood Testing - Start to Finish. Missouri Child Support Enforcement Association. Twelfth Annual Training Conference. Osage Beach, MO. Nov. 1-3, 1989.

Recent Developments in Paternity Testing. Selected Issues in Family Law. Columbia, SC. Nov. 17, 1989.

"DNA-Admissible or Inadmissible" The 8th Annual New Jersey Child Support Conference. Atlantic City, NJ. Dec. 13-15, 1989.

Blood Testing Interpretation Missouri Division of Child Support Enforcement Conference. Osage Beach, MO. Feb. 8-9, 1990.

Paternity, Challenges in Child Support: 1990, Indiana State Child Support Division, 1990 Prosecutor Seminar, Bloomington, IN. May 10-11, 1990.

Paternity Testing Seminar. Ontario County Department of Social Services, Canandaigua, NY. August 15, 1990

Paternity: Overcoming the Administrative Barriers, Moving Ahead - Implementing the Family Support Act, The National Child Support Enforcement Association, Baltimore, MD. August 29-30, 1990.

Paternity Testing. Missouri Child Support Enforcement Association, Region IV, Kirksville, MO. September 4, 1990.

Paternity Testing. Columbia County Department of Social Services, Hudson, NY. September 21, 1990.

Paternity Testing: What do the Numbers Mean. Missouri Child Support Enforcement Association, Kansas City, MO. October 10-12, 1990.

Problems in DNA Technology, Ohio Family Support Association, 11th Annual Conference, Worthington, OH. October 28-31, 1990

CV MEDICAL DIRECTOR- continued

Missouri Child Support Enforcement Association, Regional Meeting
St. Joseph, MO. February 20, 1991

Child Support Enforcement Meeting, Kansas City, MO. February 21, 1991

DNA Paternity Evidence, Legal Issues & Case Management Training, San Antonio, TX. February 22, 1991

Missouri Child Support Enforcement Association Regional Meeting (Region V), Rolla, MO. April 4, 1991

Missouri Child Support Enforcement Association Regional Meeting Flat River, MO. May 14, 1991

Child Support Enforcement for Indian Children: Moving Toward Solutions. Albuquerque, NM May 30 - June 1, 1991

Missouri Child Support Enforcement Association Regional Meeting Columbia, MO. July 25, 1991

Paternity Testing Quality Control. Toledo, OH. August 2, 1991

Missouri Child Support Enforcement Association 14th Annual Training Conference. Osage Beach, MO. October 29, 1991

Paternity Establishment: Issues for the 1990's. Sponsored by the National Child Support Enforcement Association. November 13, 1991.

The role of the Courts in the establishment of paternity. 16th Annual Indiana Child Support Enforcement Seminar. Columbus, IN June 18 - 19, 1992.

Paternity Testing in the Courts from an Expert's Point of View. Kansas Child Support Enforcement Association Conference. Topeka, KS. July 15 - 16, 1992

DNA and HLA Testing: What Does 99.99% Mean to Me as a Finder of Fact? (Judicial Track). National Child Support Enforcement Association's 41st Annual Training Conference & Exposition. Orlando, FL August 23 - 27, 1992

Paternity Establishment: Issues for the 1990's. Sponsored by the National Child Support Enforcement Association/Washington State Family Support Council 14th Annual Training Conference. Tacoma, WA September 16 - 18, 1992.

Science of Parentage Establishment. Nebraska Child Support Enforcement Association Annual Training Conference. Kearney, NE October 7 - 9, 1992.

Blood Tests and the Court Room. Missouri Child Support Enforcement Association 15th Annual Training Conference. Clayton, MO October 20 - 23, 1992.

DNA Advancements. Washington Association of Prosecuting Attorneys (WAPA) Conference. Leavenworth, WA April 19 - 21, 1993

Legal Issues in Paternity Testing. Missouri Child Support Enforcement Association 16th Annual Training Conference. Springfield, MO September 21 - 24, 1993.

Trial and Appellate Judges Seminar, The Mississippi Judicial College. Natchez, MS April 27 - 29, 1994.

Atlantic County Child Support Conference, Atlantic Community College, NJ August 3, 1994.

CV MEDICAL DIRECTOR- continued

Genes are a Perfect Fit: Genetic Marker Testing (Legal Track). National Child Support Enforcement Association's 43rd Annual Training Conference & Exposition. Boston, MA August 21 - 25, 1994.

Paternity Testing. Missouri Child Support Enforcement Association 17th Annual Training Conference. Lake of the Ozarks, MO October 18 - 21, 1994.

Paternity Genetic Testing. Illinois Family Support Enforcement Association Sixth Annual Conference on Support Enforcement. Urbana, IL October 23 - 25, 1994.

Recent Developments in the Use of DNA in Criminal and Paternity Matters. Iowa Judges Conference, Des Moines, IA December 7 - 9, 1994.

New Technologies in DNA Testing. St. Luke's Ob/Gyn & Idaho Perinatal Project, Winter Conference, Boise, ID February 1 - 3, 1995.

Bloodtesting. 19th Annual Child Support Enforcement Seminar, Indianapolis, IN June 19 - 21, 1995.

Recent Developments in the Use of DNA in Criminal and Paternity Matters. 122nd Annual Meeting of The Iowa State Bar Association, Des Moines, IA June 21 - 23, 1995.

DNA Testing. Saratoga Bar Association. Saratoga, NY June 28, 1995.

Genes are a Perfect Fit: Genetic Marker Testing. National Child Support Enforcement Association's 44th Annual Training Conference & Exposition. Kansas City, MO August 20 - 24, 1995.

DNA Round Table. Wisconsin Child Support Training Program. Lake Geneva, WI September 27 - 29, 1995.

DNA and Forensics. Fall Challenge 1995. N.C. Society of Clinical Laboratory Scientists & N.C. State Society of American Medical Technologists. Durham, NC October 11 - 13, 1995.

Interpretation of Paternity Results and Changing Technologies. Missouri Child Support Enforcement Association 18th Annual Training Conference. Lake of the Ozarks, MO October 24 - 27, 1995.

Genetic Testing & Legal Issues. National Child Support Enforcement Association UIFSA - Child Support Reform. Charleston, SC November 16 - 17, 1995.

DNA Evidence. Washington Association of Prosecuting Attorneys (WAPA) Conference. Spokane, WA April 25 - 29, 1996.

Paternity Litigation for Attorneys. 1996 Child Support Enforcement Conference. Indiana Prosecuting Attorneys Association. Indiana Child Support Alliance. Angola, IN June 2 - 5, 1996.

Paternity Testing Fundamentals. Springfield, MO June 28, 1996.

Genes are a Perfect Fit: Genetic Marker Testing. National Child Support Enforcement Association's 45th Annual Training Conference & Exposition. Louisville, KY August 25 - 29, 1996.

Paternity: Using the Expert Witness / Recent Case Law. Family Support Enforcement Association Conference, Bend, OR October 2 - 4, 1996.

Jurassic Park Technology: Establishing Parentage after Death. Family Law in the 21st Century. ABA Family Law Section, Washington, DC October 16 - 20, 1996.

Two for One: The Law of Paternity Testing in Missouri. Missouri Child Support Enforcement Association 19th Annual Training Conference. Lake of the Ozarks, MO October 22 - 25, 1996.

CV MEDICAL DIRECTOR- continued

Legal Issues in Paternity Testing. The 15th Annual New Jersey Child Support Conference. Atlantic City, NJ December 11 - 13, 1996.

Paternity Establishment. National Child Support Enforcement Association, Child Support Decision-Making: 2000. Washington, DC December 15 - 17, 1996.

DNA Evidence in Civil and Criminal Cases. Evidence for the Trial Lawyer, North Carolina Academy of Trial Lawyers, Greensboro, NC February 14, 1997.

LabCorp Inc. Genetic Testing; Old and New. North Dakota Family Support Council 8th Annual Conference, Mandan, ND April 29 - May 2, 1997.

Paternity Tests. Eastern DRAP Training Conference '97, Reading, PA June 2 - 4, 1997.

Genetic Evidence in the Paternity Case. Washington Association of Prosecuting Attorneys, Child Support Enforcement Training, Vancouver, WA July 21 - 23, 1997.

How to Get in Your Genes: Evidentiary Issues and Other Genetic Testing Tips for Paternity Trials. National Child Support Enforcement Association's 46th Annual Training Conference & Exposition. Phoenix, AZ August 24 - 28, 1997.

What's in Your Genes? Oklahoma Child Support Enforcement Association, Annual Fall Training Conference. Oklahoma City, OK September 10 - 12, 1997.

DNA Evidence. North Carolina Conference of District Attorney's, Sexual Assault Trial Advocacy School. Asheville, NC September 14 - 18, 1997.

Paternity Testing. Missouri Child Support Enforcement Association 20th Annual Training Conference. Lake of the Ozarks, MO October 21 - 24, 1997.

Legal Issues Related to Paternity. Domestic Relations Association of Pennsylvania, 30th Annual Training Conference. Harrisburg, PA October 26 - 30, 1997.

Legal Issues in Paternity Testing. New Jersey Association of County Welfare Attorneys. Freehold, NJ December 4, 1997.

Legal Issues in HLA and DNA Tests in Paternity Proceedings. Law Guardian Training Seminar. Utica, NY March 6, 1998.

Establishing Paternity when the Alleged Father is Deceased. Ohio Child Support Directors Association Spring Conference. Columbus, OH March 30 - April 1, 1998.

Are Buccal Swabs Better Than Blood? 1998 Annual Training Conference, Indiana Child Support Bureau and the Indiana Child Support Alliance. Angola, IN June 7 - 10, 1998.

Paternity Testing. Washington Association of Prosecuting Attorneys, Child Support Enforcement Training, Spokane, WA July 20 - 24, 1998.

Make Sure the "Genes" Fit: Evidentiary Issues in Genetic Testing and Other Tips for Paternity Trials. National Child Support Enforcement Association's 47th Annual Training Conference & Exposition. Washington, DC August 2 - 6, 1998.

Uniform Parentage Act. Missouri Office of Prosecuting Services, Fall State Wide Training, Child Support Training, Osage Beach, MO September 1 - 3, 1998.

Parentage Testing. Washington State Family Support Council, Seattle, WA October 12 - 14, 1998.

CV MEDICAL DIRECTOR- continued

Genetic Testing Panel & Uniform Parentage Act, Nebraska Child Support Enforcement Association Fall Conference, Kearney, NE October 26 - 28, 1998.

What Probability of Paternity Do You Need For A Legal Presumption: 95%, 98%, 99% or 99.9%. Missouri Child Support Enforcement Association 21st Annual Training Conference. Kansas City, MO October 27 - 30, 1998.

Paternity Issues: Uniform Parentage Act. 10th Annual Family Support Enforcement Association Conference. Eugene, OR October 29 - 30, 1998.

Evidentiary Issues in Genetic Testing. Washington Association of Prosecuting Attorneys, Child Support Enforcement Training, Wenatchee, WA March 22 - 24, 1999.

Uniform Parentage Act. Wichita SRS/CSE Spring CLE Seminar, Wichita, KS May 21, 1999.

Introduction to Genetic Testing. 1999 Annual Training Conference, Indiana Child Support Alliance. French Lick, IN June 9 - 11, 1999.

Genetic Testing Panel, Nebraska Child Support Enforcement Association Fall Conference, Kearney, NE September 22 - 24, 1999.

Genetic Testing. Washington State Family Support Council, Seattle, WA September 27 - 29, 1999.

Western Interstate Child Support Enforcement Conference., Springfield, MO October 4 - 7, 1999.

Uniform Parentage Act. 10th International Symposium on Human Identification, Coronado Springs Resort, Orlando, FL September 30 - October 3, 1999.

Uniform Parentage Act. American Association of Blood Banks, 52nd Annual Meeting, San Francisco, CA November 4 - 7, 1999.

Fundamentals of Paternity Testing. 2000 Annual Training Conference, Indiana Child Support Alliance. Indianapolis, IN June 12 - 14, 2000.

Uniform Parentage Act. American Association of Blood Banks, 54th Annual Meeting, Washington, DC November, 2000.

Evidentiary Issues in Genetic Testing. Washington Association of Prosecuting Attorneys, Child Support Enforcement Training, Wenatchee, WA April 1 - 4, 2001.

Fundamentals of Paternity Testing. 2001 Annual Training Conference, Indiana Child Support Alliance. Maryville, IN June 13 - 15, 2001.

Paternity Testing, the Uniform Parentage Act and Family Studies, Illinois Family Support Enforcement Association, Collinsville, IL October 14 - 16, 2001.

Washington's Uniform Parentage Act. Washington Association of Prosecuting Attorneys, Child Support Enforcement Training, Vancouver, WA May 6 - 8, 2002.

Uniform Parentage Act. Wichita SRS/CSE Spring CLE Seminar, Wichita, KS May 24, 2002.

Fundamentals of Paternity Testing. 2002 Annual Training Conference, Indiana Child Support Alliance. Indianapolis, IN May 28 - 31, 2002.

The Promise and Limitations of Genetic Testing for Parentage. Genetic Bonds and Family Law: The Challenge of DNA Parentage Testing. New Orleans, LA March 27-28, 2003.

CV MEDICAL DIRECTOR- continued

Washington's Uniform Parentage Act. Washington Association of Prosecuting Attorneys, Child Support Enforcement Training, Spokane, WA May 5 – 9, 2003.

Genetic Testing for Parentage and It's Limitations. 2003 Annual Training Conference, Indiana Child Support Alliance. Evansville, IN June 11-13, 2003.

Paternity Disestablishment. Missouri Child Support Enforcement Association Annual Training Conference. Kansas City, MO September 16-19, 2003.

AABB 2002 Annual Report. Parentage Testing SIG. AABB. 56th Annual Meeting, San Diego, CA. October, 2003

Paternity Testing Interpretation. Wisconsin Child Support Enforcement Fall Conference. Green Bay, WI. September 24-26, 2003.

Paternity Disestablishment. Western Interstate Child Support Enforcement Conference., Las Vegas, NV November 3-6, 2003.

Parentage Testing. The Annual New Jersey Child Support Conference. Atlantic City, NJ December 10 - 12, 2003.

DNA Evidence in Paternity Cases. Washington Association of Prosecuting Attorneys, Child Support Enforcement Training and Establishing Paternity Judgements, Bellingham, WA May 3 – 7, 2004.

Interpretation and Use of Paternity Testing in Establishing Relationships. 2004 Annual Training Conference, Indiana Child Support Alliance. Indianapolis, IN June 8-10, 2004.

Hot Topics in Paternity. National Child Support Enforcement Association Tele-Talk. June 17, 2004.

Paternity Testing - Court Room Questions. Kansas Child Support Enforcement Association Annual Conference. Lawrence, KS June 25, 2004.

Paternity Testing --- Common Issues? Illinois Family Support Enforcement Association (IFSEA), Matteson, IL October 18, 2004.

AABB 2003 Annual Report. Parentage Testing SIG. AABB. 57th Annual Meeting, Baltimore, MD. October 23, 2004.

Paternity Disestablishment - Pros & Cons. Western Interstate Child Support Enforcement Council (WICSEC). Denver, CO October 26, 2004.

Genetic Testing Update. Wichita SRS/CSE Autumn CLE Seminar, Wichita, KS November 19, 2004.

Basic Paternity / Genetic Testing. Washington Association of Prosecuting Attorneys, Child Support Enforcement Training and Establishing Paternity Judgments, Olympia, WA May 2 - 6, 2005.

AABB Annual Report and 7th Edition of Standards for Relationship Testing. In Parentage Testing I: Current Administrative Issues in Parentage Testing. AABB Annual Meeting, Seattle, WA October 15, 2005.

Problems Associated with Using STRs for Engraftment Monitoring. In What's new inHLA Typing, Antibody Identification and Engraftment Monitoring Using Polymorphisms in Other Genetic Systems. AABB Annual Meeting, Seattle, WA October 16, 2005.

Legal Issues in Parentage Testing, Illinois Family Support Enforcement Association (IFSEA), Fairview Heights, IL October 17, 2005.

Love & Science: Understanding the Process. Erie Law Institute. Buffalo, New York April 7, 2006.

CV MEDICAL DIRECTOR- continued

Paternity Testing and Washington UPA. Washington Association of Prosecuting Attorneys, Child Support Enforcement 2006 Annual Training Conference, Silverdale, WA May 1 - 5, 2006.

Genetic Testing for Massachusetts. Attorney Staff Meeting, Child Support Enforcement Division of the Department of Revenue. Boston, MA May 19, 2006.

Problems Associated with Using STRs for Engraftment Monitoring. In What's new in HLA Typing, Antibody Identification and Engraftment Monitoring. AABB Annual Meeting, Miami, FL. October 22, 2006.

Genetic Testing and Paternity Identification. Washington Association of Prosecuting Attorneys, Child Support Enforcement 2007 Annual Training Conference, Wenatchee, WA May 7 - 9, 2007.

Lies and Liaisons Unraveled by Genetic Testing. 2007 Annual Training Conference, Nevada Child Support Enforcement Training Association (NCSETA). Las Vegas, NV September 25-27, 2007.

DNA Testing, 4th Annual Northwest Regional Enrollment Conference. Suquamish, WA September 28, 2007.

Lies and Liaisons Exposed by DNA. Division of Child Support Enforcement, Annual Child Support Meeting, The Sagamore, Bolton Landing, NY March 11 - 13, 2008.

Paternity & Relationship Testing: Scientific and Legal Issues. 2008 Indiana Child Support Enforcement Conference. Indianapolis, IN June 4 - 6, 2008.

A Primer for DNA Analysis for Paternity, Annual OCSE Region 1 Training Conference, Hyannis Port, MA September 16, 2008

Genetic Testing in Paternity Cases , Washington Association of Prosecuting Attorneys, Child Support Enforcement 2009 Annual Training Conference, Silverdale, WA May 11-15, 2009

DNA Paternity Testing and Legal Issues. 33rd Annual Child Support Conference. The Indiana Child Support Alliance, Merrillville, IN June 17 - 19, 2009.

Using DNA Testing to Establish Paternity. Region X Tribal Child Support Conference. Suquamish, WA. August 26 - 28, 2009.

The Impact of Legal Decisions on the Establishment of Paternity, 2010 NCSEA Policy Forum & Training Conference "The Changing Faces of Families", Washington, DC, January 25-27, 2010

DNA Evidence and Analysis for the IV-D Professional: Legal Issues in Parentage Testing , 2010 National Child Support Attorney College, Costa Mesa, CA April 26-29, 2010.

Genetic Testing in Paternity Cases , Washington Association of Prosecuting Attorneys, Child Support Enforcement 2010 Annual Training Conference, Spokane, WA May 3-8, 2010.

DNA Identification and Testing Workshop, Addis Ababa, Ethiopia, May 29, 2010

Parentage, 14th Annual AB 1058 Child Support Training Conference, San Francisco Airport Marriott, Burlingame, California September 28 - October 1, 2010

Genetic Testing in Parentage Cases, 2011 Family Law Institute, Judicial Council of California, Los Angeles, CA April 13-15, 2011

Genetic Testing in Parentage Cases, State Wide Attorney Meeting, John Adams Courthouse, Boston, MA May 20, 2011.

CV MEDICAL DIRECTOR- continued

Paternity Forum: Beyond Biology, Bay Area Out Reach Conference for Child Support, San Francisco, CA June 7 – 9, 2011

DNA Paternity Testing, Indiana Child Support Conference, Indianapolis, IN June 15 – 17, 2011

Understanding DNA Results for the Courts, WICSEC 28th Annual Training Conference, Austin, TX October 30 – November 3, 2011.

Legal Issues with Paternity Testing, 2012 Child Support Enforcement Conference, Indiana Department of Child Services, Merrillville, IN June 13 – 15 2012.

Relationship Testing Calculations: Standard Trio, Duo, RMNE and PE. AABB Audioconference. September 19, 2013. <http://www.aabb.org/events/audioconferences/Pages/descriptions.aspx#0919>

New Frontiers in Paternity Establishment. 10th Annual Child Support Conference, Rethinking Child Support: Who Moved Our Mission? Warwick, RI May 22, 2014.

DNA Testing, 38th Annual Child Support Enforcement Conference, Florence, IN June 4 – 6, 2014.

Complex Relationship Statistics Workshop. Kelly Beatty, George Frech, Donna Housley, **George C. Maha**, 25TH International Symposium on Human Identification, Phoenix, AZ. October 29, 2014.

CV MEDICAL DIRECTOR- continued

Court Appearances as an Expert
(State, city and number of times)

Alabama	Anniston (1)
California	Los Angeles (2)
Colorado	Denver (1)
Connecticut	Hartford (1)
Florida	Miami (2), Quincy (2)
Illinois	Urbana (1), Wheaton (1)
Indiana	Bloomfield (1), Bloomington (1), Marion (2), Martinsville (1), New Castle (2), Nashville (1), Gary (1), Terre Haute (1)
Kentucky	Louisville (2), Bowling Green (1), Owensborough (1)
Maryland	Rockville (2)
Massachusetts	Dudley (1)
Missouri	Clinton (1), Columbia (2), Harrisonville (1), Independence (2), Jackson (1), Kansas City (2), Kennett (1), Liberty (1), Monticello (1), Rolla (1), St. Charles (2), St. Louis (8), Steeleville (1), Vienna (1)
Montana	Baker (1)
Nebraska	Kearney (2), Lincoln (2), Beatrice (1), Omaha (1)
New Jersey	Atlantic City (1)
North Carolina	Newbern (1), Newton (2)
Ohio	Canton (4), Kenton (1), Hillsborough (4), Eaton (1), Port Clinton (1), Toledo (4), Akron (3)
Oklahoma	Lawton (1), Oklahoma City (1)
Oregon	Burns (1)
Pennsylvania	Philadelphia (2), Easton (1), Lancaster (1), Lebanon (2)
South Carolina	Edgefield (1)
Vermont	Woodstock (1), St. Johnsbury (1)
Virginia	Fairfax (2)
Washington	Seattle (2)
West Virginia	Parkersburg (1)
Wisconsin	Wausau (1), Crandon (1), Appleton (1), Medford (2), Superior (1), Milwaukee (2)

FORMS

Supply Reorder Form

To reorder supplies, use the LabCorp study-specific reorder form on the following page. Please make copies as needed.

Complete the Supply Reorder Form and fax to the fax number listed on top of the form.

Please allow a minimum of 5 to 7 business days for the assembly and delivery of reordered supplies.

Shipment Alert Form

On the day of sample shipment, please complete and fax the Shipment Alert Form to the fax number listed on the form.

Supply Reorder Form (Version 2.0 / 05-Aug-2015)

Sponsor: UCSF **Protocol: POINT NCT00991029** **LSN: 101993**
Site Number: _____ **Investigator's Last Name: _____**
By Fax: 1-919-474-4385 **Attn: Jaeson Hackett (Phone: 1-919-474-4394)**

1. Kits - contain all supplies necessary to collect and process all Required and Optional testing for the specified visit

QUANTITY	KIT TYPE
	Baseline DNA
	Baseline DNA + Plasma

2. Bulk - items may be used to replace damaged/expired items in the kits

QUANTITY	DESCRIPTION	CTX MNEMONIC
	10 mL EDTA Plastic Tube	EDT10
	2 mL Cryovial	CRYO2
	10 mL Cryovial	10CRY

QUANTITY	DESCRIPTION	CTX MNEMONIC
	Biohazard Bag	SPBAG
	Aqui Pak - 6 place tube holder in absorbent material	AQPK
	Non Sterile Transfer Pipette	PIPST

3. Transport Material - items are NOT included in the kits and must be ordered separately

QUANTITY	DESCRIPTION	CTX MNEMONIC
	Styrofoam Insert for Large Kit Box	STYRO
	Frozen Shipping Container, Medium	FSCM
	LabCorp Kit Box, Large	KBXL
	FedEx Diagnostic Pak	FEDEX

QUANTITY	DESCRIPTION	CTX MNEMONIC
	FedEx Airbill Pouch	POUCH
	FedEx Ambient/Refrigerated Airbill RTP	FARTP
	FedEx Frozen Airbill RTP	FFRTP
	FedEx Saturday Delivery Labels	SADEL

SECTION TO BE COMPLETED BY THE SITE

Order Placed By :	
Order Date :	
Telephone Number :	
Date Supplies Required*:	

Please do not forget



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Date Received:	
Order Handled By:	
Date Input:	
SWO Number (CTX only):	
Expected Delivery Date:	

*** ALLOW AT LEAST 5 TO 7 BUSINESS DAYS FOR DELIVERY OF SUPPLIES – US**

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On the Day of Shipment, please complete this form and fax to:

LabCorp Clinical Trials
FAX: 1-919-474-4385

ATTENTION: Jaeson Hackett
(Phone: 1-919-474-4394)

Sponsor / Protocol: UCSF / POINT NCT00991029

Investigator Last Name: _____

Site Number: _____

Contact Person at Site: _____

Phone Number: _____

Date of Shipment: ____/____/____
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**Number of Boxes Shipped
to RTP, NC:** _____

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LSN: 101993

LabCorp Site Support Associate: Jaeson Hackett, Phone # 1-919-474-4394
LabCorp Project Manager: Melanie Little, Phone # 1-919-474-4357