



**National MS/MS Advisory Board  
February 2, 2008**

**AGENDA**

- 1) Welcome and Introductions Cameron
  
- 2) Discussion of Advisory Board Charge (Handout 1) Cameron
  - a) Suggestions for Additions
  - b) Approval of Charge
  
- 3) Overview of Project Rinaldo
  - a) Current Status (national and international participation; Handout 2)
  - b) Training Courses (Handout 3)
  - c) Supplement issue of Molecular Genetics & Metabolism (Handout 4)
  - d) Sample Exchange Mayfield
  
- 4) Feedback and Suggestions for Improvement Advisory Board Members
  
- 5) Next Meetings Cameron
  - a) Teleconference - June 2008
  - b) Face-to-face Meeting - November 2, 2008, San Antonio

**Call: 1-866-489-0573**

**At the prompt, enter \*4545164\* (Remember to enter the \* before and after)**



## **National MS/MS Advisory Board**

### **Charge**

- Be an advocate of the project
- Provide direction on how to maximize participant benefits
- Recommend means to improve participation and timely data submission
- Provide feedback on project progress reports, requirements for active participation, and exclusion
- Advise on the design of the web-based software under development
- Provide guidance for interaction and collaboration of Region 4 MS/MS working group with other national entities (CDC, NCC, NNSGRC)



# Region 4 Genetics Collaborative Project - Priority 1

## Laboratory Quality Improvement of Newborn Screening by MS/MS

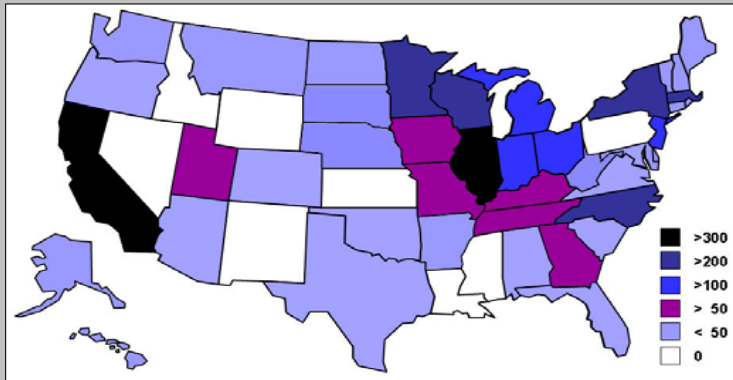


<http://www.region4genetics.org>

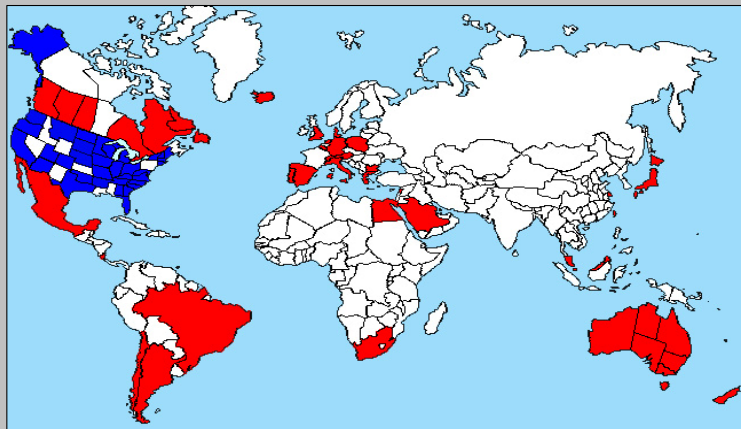
### Status of Project Participation

Last Update: 01/31/08

#### National Participation (No. of TP cases)



#### International Participation



#### Number of Participants

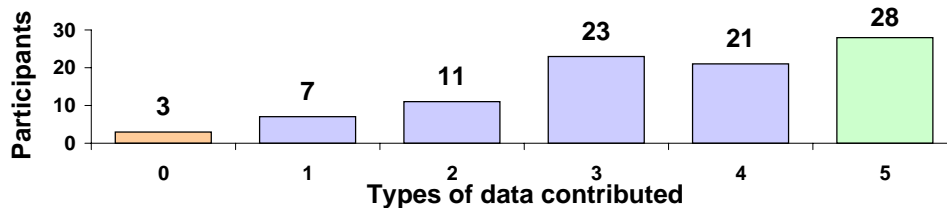
6 Participants in Region 1 (New England)
6 Participants in Region 2 (New York-Mid-Atlantic)
7 Participants in Region 3 (Southeastern)
7 Participants in Region 4 (Great Lakes & KY)
7 Participants in Region 5 (Heartland)
6 Participants in Region 6 (Mountain States)
5 Participants in Region 7 (Western States)

<b>44</b>	<b>US Participants</b>
<b>49</b>	<b>International Participants</b>
<b>93</b>	<b>TOTAL Participants</b>

#### Regional Participation

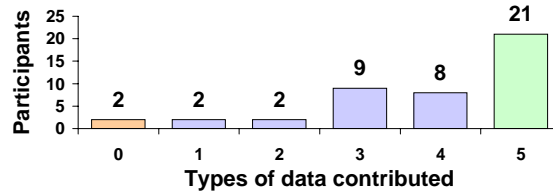
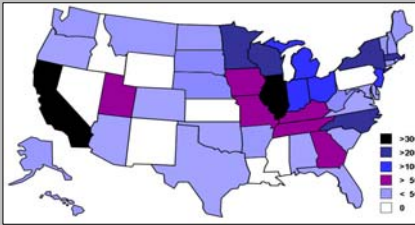
ALL data submitted (green) NO data submitted (orange)

Percentiles of normal population	Cutoff values	Participant Profile	True positive cases	Performance Metrics
83%	100%	83%	83%	83%
83%	83%	100%	83%	33%
57%	100%	100%	86%	43%
86%	100%	100%	100%	71%
57%	71%	86%	86%	57%
67%	100%	83%	83%	50%
20%	80%	80%	80%	20%
66%	91%	91%	86%	52%
61%	86%	73%	73%	16%
63%	88%	82%	80%	33%





### US Participation (by Region)



### DATA SUBMISSION (date of last entry)

Percentiles of normal population	date submitted		date not submitted		
	Cutoff values	Participant Profile	True positive cases	Performance Metrics	

	Dec-06				
Jan-07	Aug-07	Oct-07	Oct-07	Feb-07	
Jan-07	Aug-07	Oct-07	Oct-07	Feb-07	
Jan-07	Aug-07	Oct-07	Oct-07	Feb-07	
Jan-07	Aug-07	Oct-07	Oct-07	Feb-07	
Jan-07	Aug-07	Oct-07	Oct-07	Feb-07	
83%	100%	83%	83%	83%	

Dec-06	Dec-07	Oct-07	Jan-08		
Dec-07	Jan-07	Dec-07	Aug-07		
Oct-07	Dec-06	Jun-07	Jan-08	Dec-07	
Jan-08	Jan-08	Sep-07	Jan-08	Sep-07	
Jan-08	Sep-07	Oct-07	Jan-08		
		Oct-07			
83%	83%	100%	83%	33%	

	Jan-07	Sep-07	Dec-07		
Dec-06	Apr-07	Aug-07	Oct-07	Nov-07	
Jan-08	Jan-08	Sep-07	Jan-08	Jan-08	
Jan-08	Jul-07	Sep-07	Sep-07		
Jan-08	Mar-07	Sep-07	Oct-07		
	Nov-07	Jun-07			
	Nov-07	Jul-07	Jan-08	May-07	
57%	100%	100%	86%	43%	

	Nov-07	Aug-07	Nov-07		
Jan-08	Nov-07	Jun-07	Dec-07	Dec-07	
Jan-08	Nov-07	Jul-07	Nov-07	Apr-07	
Jan-08	Dec-07	Sep-07	Jan-08	Dec-07	
Jan-08	Jan-08	Aug-07	Dec-07	Dec-07	
May-07	Mar-07	Oct-07	May-07		
Dec-07	Jan-07	Jul-07	Dec-07	Jan-08	
86%	100%	100%	100%	71%	

Mar-07	Nov-07	Aug-07	Jan-08	May-07	
Nov-06	Nov-06	Sep-07	Jan-08	Dec-06	
		Oct-07	Dec-07		
Mar-07	Nov-07	Aug-07	Dec-07	May-07	
	Jul-07	Sep-07	Nov-07		
Mar-07	Nov-07	Aug-07	Jan-08	May-07	
57%	71%	86%	86%	57%	

	Jun-07	Jun-07	Jun-07		
May-06	May-06		May-06		
Dec-06	Jun-07	Oct-07	Jun-07	Jan-07	
Dec-07	Jan-07	Jul-07		Jan-08	
	Jul-07	Sep-07	Jan-08		
Dec-06	Feb-07	Oct-07	Jan-08	Feb-07	
67%	100%	83%	83%	50%	

	Nov-07	Sep-07	Dec-07		
Apr-07	Dec-07	May-07	Jan-08	May-07	
	Nov-07	Sep-07	Dec-07		
	Nov-07	Sep-07	Dec-07		
20%	80%	80%	80%	20%	

State	Last Name	First Name	E-mail address
<b>Region 1 (New England)</b>			
Connecticut	Seashore	Greta	<a href="mailto:margretta.seashore@yale.edu">margretta.seashore@yale.edu</a>
New Hampshire	Lavochkin	Marcia	<a href="mailto:MLavochkin@dhhs.state.nh.us">MLavochkin@dhhs.state.nh.us</a>
Maine	Mulcahy	Eleanor	<a href="mailto:Eleanor.A.Mulcahy@maine.gov">Eleanor.A.Mulcahy@maine.gov</a>
Massachusetts	Sahai	Inderneel (Neela)	<a href="mailto:inderneel.sahai@umassmed.edu">inderneel.sahai@umassmed.edu</a>
Rhode Island	Zonno	Kristi	<a href="mailto:Kristi.Zonno@health.ri.gov">Kristi.Zonno@health.ri.gov</a>
Vermont	Ingham	Cindy	<a href="mailto:CIngham@vdh.state.vt.us">CIngham@vdh.state.vt.us</a>
Percentage of Contributing Participants			

State	Last Name	First Name	E-mail address
<b>Region 2 (NY-Mid-Atlantic)</b>			
Delaware	Scott	Pat	<a href="mailto:Pat.Scott@state.de.us">Pat.Scott@state.de.us</a>
Maryland	Gulamali-Majid	Fizza	<a href="mailto:MajidF@dhhm.state.md.us">MajidF@dhhm.state.md.us</a>
New Jersey	Bergum	Allen	<a href="mailto:Allen.Bergum@doh.state.nj.us">Allen.Bergum@doh.state.nj.us</a>
New York	Morrissey	Mark	<a href="mailto:mam29@health.state.ny.us">mam29@health.state.ny.us</a>
Virginia	Poston	Phil	<a href="mailto:Phil.Poston@dgs.virginia.gov">Phil.Poston@dgs.virginia.gov</a>
West Virginia	Burke	Phaedra Y.	<a href="mailto:phaedrurke@wvdhhr.org">phaedrurke@wvdhhr.org</a>
Percentage of Contributing Participants			

State	Last Name	First Name	E-mail address
<b>Region 3 (Southeastern)</b>			
Alabama	Floyd-Browning	Phaidra	<a href="mailto:pfbrowning@genetics.uab.edu">pfbrowning@genetics.uab.edu</a>
Florida	Torres	Jasmin	<a href="mailto:Jasmin_Torres@doh.state.fl.us">Jasmin_Torres@doh.state.fl.us</a>
Georgia	Yu	Chunli	<a href="mailto:cyyu@genetics.emory.edu">cyyu@genetics.emory.edu</a>
South Carolina	Hickey	Tom	<a href="mailto:HICKEYTM@dhec.sc.gov">HICKEYTM@dhec.sc.gov</a>
North Carolina	Frazier	Dianne	<a href="mailto:dfrazier@med.unc.edu">dfrazier@med.unc.edu</a>
Puerto Rico	Chardon Ramos	Alfredo	<a href="mailto:alfredochardon@yahoo.com">alfredochardon@yahoo.com</a>
Tennessee	McKeever	Christine	<a href="mailto:Chris.mckeever@state.tn.us">Chris.mckeever@state.tn.us</a>
Percentage of Contributing Participants			

State	Last Name	First Name	E-mail address
<b>Region 4 (Great Lakes &amp; KY)</b>			
Illinois	Johnson	Bernard (Tom)	<a href="mailto:Bernard.Johnson@illinois.gov">Bernard.Johnson@illinois.gov</a>
Indiana	Breen	Nancy	<a href="mailto:nbreen@iupui.edu">nbreen@iupui.edu</a>
Kentucky	Mayfield	Stephanie	<a href="mailto:StephanieK.Mayfield@ky.gov">StephanieK.Mayfield@ky.gov</a>
Michigan	Stanley	Eleanor	<a href="mailto:stanleye@michigan.gov">stanleye@michigan.gov</a>
Minnesota	Rinaldo	Piero	<a href="mailto:rinaldo@mayo.edu">rinaldo@mayo.edu</a>
Ohio	Chandrasekar	Ram	<a href="mailto:Ram.Chandrasekar@odh.ohio.gov">Ram.Chandrasekar@odh.ohio.gov</a>
Wisconsin	Hoffman	Gary	<a href="mailto:Hoffman@mail.sih.wisc.edu">Hoffman@mail.sih.wisc.edu</a>
Percentage of Contributing Participants			

State	Last Name	First Name	E-mail address
<b>Region 5 (Heartland)</b>			
Arkansas	Bates-Dubrow	Lisa	<a href="mailto:BatesdubrowLG@archildrens.org">BatesdubrowLG@archildrens.org</a>
Iowa	Copeland	Sara	<a href="mailto:sara-copeland@uiowa.edu">sara-copeland@uiowa.edu</a>
Missouri	Hopkins	Patrick	<a href="mailto:Patrick.Hopkins@dhss.mo.gov">Patrick.Hopkins@dhss.mo.gov</a>
Nebraska	Miller	Julie	<a href="mailto:julie.miller@dhhs.ne.gov">julie.miller@dhhs.ne.gov</a>
North Dakota	Schweitzer	Barb	<a href="mailto:bschweit@state.nd.us">bschweit@state.nd.us</a>
Oklahoma	Steckel	Theresa	<a href="mailto:TheresaLS@health.ok.gov">TheresaLS@health.ok.gov</a>
South Dakota	Fossen	Lucy	<a href="mailto:Lucy.Fossen@state.sd.us">Lucy.Fossen@state.sd.us</a>
Percentage of Contributing Participants			

State	Last Name	First Name	E-mail address
<b>Region 6 (Mountain States)</b>			
Arizona	McElligott	John	<a href="mailto:MCELLIJ@azdhs.gov">MCELLIJ@azdhs.gov</a>
Colorado (UCHSC)	Wootner	Mike	<a href="mailto:Mike.Wootner@UCHSC.edu">Mike.Wootner@UCHSC.edu</a>
Colorado	Porter	Cory	<a href="mailto:cory.porter@state.co.us">cory.porter@state.co.us</a>
Montana	Johnson	John	<a href="mailto:JJohnson@shodair.org">JJohnson@shodair.org</a>
Texas	Ramos	Patricia	<a href="mailto:Patricia.Ramos@dshs.state.tx.us">Patricia.Ramos@dshs.state.tx.us</a>
Utah	Pasquali	Marzia	<a href="mailto:PASQUAM@aruplab.com">PASQUAM@aruplab.com</a>
Percentage of Contributing Participants			

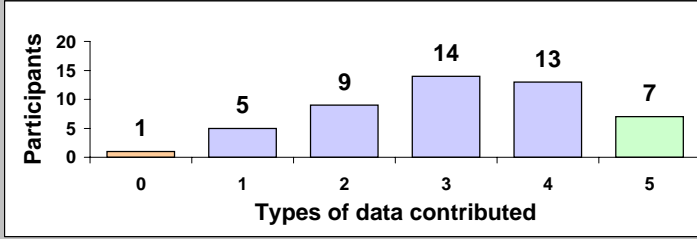
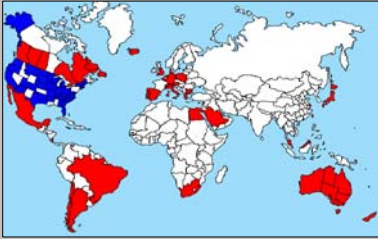
State	Last Name	First Name	E-mail address
<b>Region 7 (Western States)</b>			
Alaska	Wood	Thalia	<a href="mailto:Thalia_Wood@HEALTH.STATE.AK.US">Thalia_Wood@HEALTH.STATE.AK.US</a>
California	Lorey	Fred	<a href="mailto:FLorey@dhs.ca.gov">FLorey@dhs.ca.gov</a>
Hawaii	Au	Sylvia	<a href="mailto:sylvia@hawaiiogenetics.org">sylvia@hawaiiogenetics.org</a>
Oregon	Hermerath	Cheryl	<a href="mailto:Cheryl.A.Hermerath@state.or.us">Cheryl.A.Hermerath@state.or.us</a>
Washington	Weiss	Sheila	<a href="mailto:sheila.weiss@doh.wa.gov">sheila.weiss@doh.wa.gov</a>
Percentage of Contributing Participants			

<b>Total of active participants (out of 44)</b>
<b>Percentage of Contributing Participants</b>

29	40	40	38	23
66%	91%	91%	86%	52%



### International Participation



### DATA SUBMISSION (date of last entry)

date submitted		data not submitted		
Percentiles of normal population	Cutoff values	Participant Profile	True positive cases	Performance Metrics
	Mar-07	Sep-07	Mar-07	
	Aug-07	Aug-07		
Sep-07	Jan-08	Sep-07	Jan-08	
May-07	May-07		Nov-06	
	Mar-07		Feb-07	
Nov-07	Nov-07	Aug-07	Nov-07	Feb-07
Dec-06	Dec-06	Oct-07	Nov-07	Dec-06
Oct-07	Jun-07	Aug-07	Jan-08	
	Dec-07	Oct-07		Dec-07
		Jul-07	Oct-07	
Nov-07	Mar-07	Sep-07	Sep-07	Sep-07
Dec-07	Nov-07	Nov-07		
Jul-07	Mar-07	Oct-07	Sep-07	
	Oct-07		Oct-07	
Oct-07	Oct-07	Oct-07	Jul-07	
		Nov-07		
Jul-07	Dec-06	Sep-07	Sep-07	
	Nov-07	Nov-07	Nov-07	
Feb-07	Feb-07		Dec-06	
	Dec-07	Dec-07		
	Nov-07	Nov-07		
Mar-07	Mar-07			Jun-07
Dec-06	Oct-07	Oct-07	Oct-07	
	Feb-07	Oct-07	Jun-07	
Nov-07	Oct-07	Oct-07	Oct-07	
Nov-07	Feb-07	Oct-07		
Oct-07	Oct-07		Dec-07	
Dec-06	Dec-06	Sep-07	Jun-07	Dec-06
Nov-06	Nov-06	Jun-07	Dec-07	Jan-07
Jun-07	Dec-06		Dec-06	
Nov-06	Nov-06	Oct-07	Nov-07	Feb-07
Feb-07	Dec-07	Oct-07	Dec-07	
Aug-07	Aug-07	Aug-07	Aug-07	
Oct-05	Oct-05	Sep-07	Feb-07	
	Dec-07	Dec-07	Dec-07	
Jan-08	Dec-07	Dec-07		
Dec-07		Dec-07		
	Dec-07	Dec-07	Jan-08	
Dec-06	Dec-06	Oct-07	Jan-08	
	Dec-06		Sep-06	
Jan-08	Jan-08	Sep-07	Oct-07	
	Jan-08			
			Dec-07	
Jan-08	Dec-07	Dec-07		
Dec-06	Nov-07	Oct-07	Mar-07	
			Nov-06	
May-07	May-07	Sep-07	Nov-07	Jan-07

Country	State/Province or City	Last Name	First Name	E-mail address
Argentina	Buenos Aires	Schenone	Andrea	<a href="mailto:hfayza@gmail.com">hfayza@gmail.com</a>
Australia	New South Wales	Wiley	Veronica	<a href="mailto:Veronicw@chw.edu.au">Veronicw@chw.edu.au</a>
Australia	Queensland	Price	Ricky	<a href="mailto:ricky_price@health.qld.gov.au">ricky_price@health.qld.gov.au</a>
Australia	South Australia	Ranieri	Enzo	<a href="mailto:enzo.ranieri@adelaide.edu.au">enzo.ranieri@adelaide.edu.au</a>
Australia	Victoria	Pitt	James	<a href="mailto:james.pitt@ghsv.org.au">james.pitt@ghsv.org.au</a>
Australia	Western Australia	Greed	Lawrence	<a href="mailto:Lawrence.Greed@health.wa.gov.au">Lawrence.Greed@health.wa.gov.au</a>
Austria	Vienna	Bodamer	Olaf	<a href="mailto:olaf.bodamer@meduniwien.ac.at">olaf.bodamer@meduniwien.ac.at</a>
Belgium	Liège	Boemer	François	<a href="mailto:F.Boemer@chu.ulg.ac.be">F.Boemer@chu.ulg.ac.be</a>
Brazil	Curitiba	Torquado Domingos	Mueselina	<a href="mailto:musse@fepc.org.br">musse@fepc.org.br</a>
Canada	Alberta	Bamforth	Fiona	<a href="mailto:Fiona.Bamforth@capitalhealth.ca">Fiona.Bamforth@capitalhealth.ca</a>
Canada	British Columbia	Sinclair	Graham	<a href="mailto:gsinclair@cw.bc.ca">gsinclair@cw.bc.ca</a>
Canada	Newfoundland	Randell	Edward	<a href="mailto:Ed.Randell@easternhealth.ca">Ed.Randell@easternhealth.ca</a>
Canada	Ontario	Chakraborty	Pranesh	<a href="mailto:PChakraborty@cheo.on.ca">PChakraborty@cheo.on.ca</a>
Canada	Quebec	Robitaille	Daniel	<a href="mailto:Daniel.Robitaille@ssss.gouv.qc.ca">Daniel.Robitaille@ssss.gouv.qc.ca</a>
Canada	Saskatchewan	Lehotay	Denis	<a href="mailto:dlehotay@health.gov.sk.ca">dlehotay@health.gov.sk.ca</a>
Chile	Santiago	Valiente	Alf	<a href="mailto:avaliente@inta.cl">avaliente@inta.cl</a>
China	Shangai	Gu	Xuefan	<a href="mailto:quxuefan@online.sh.cn">quxuefan@online.sh.cn</a>
Costa Rica	San José	Reuben	Alejandra	<a href="mailto:areubenm@tamzajeneonatal.com">areubenm@tamzajeneonatal.com</a>
Denmark	Copenhagen	Hougaard	David	<a href="mailto:DH@ssi.dk">DH@ssi.dk</a>
Egypt	Cairo	Hassan	Fayza	<a href="mailto:hfayza@gmail.com">hfayza@gmail.com</a>
England	Sheffield	Downing	Melanie	<a href="mailto:melanie.downing@sch.nhs.uk">melanie.downing@sch.nhs.uk</a>
Germany	Giessen	Kreuder	Joachim	<a href="mailto:Joachim.G.Kreuder@paediat.med.uni-giessen.de">Joachim.G.Kreuder@paediat.med.uni-giessen.de</a>
Germany	Greifswald	Mueller	Cornelia	<a href="mailto:cornelia.mueller@uni-greifswald.de">cornelia.mueller@uni-greifswald.de</a>
Germany	Heidelberg	Lindner	Martin	<a href="mailto:Martin.Lindner@med.uni-heidelberg.de">Martin.Lindner@med.uni-heidelberg.de</a>
Germany	Hamburg	Lukacs	Zoltan	<a href="mailto:lukacs@uke.uni-hamburg.de">lukacs@uke.uni-hamburg.de</a>
Greece	Athens	Papakonstantinou	Vagelis	<a href="mailto:vpapakonst@neolab.gr">vpapakonst@neolab.gr</a>
Iceland	Reykjavik	Franzson	Leifur	<a href="mailto:leifurfr@landspitali.is">leifurfr@landspitali.is</a>
Italy	Veneto, Padova	Giordano	Giuseppe	<a href="mailto:giordano@pediatria.unipd.it">giordano@pediatria.unipd.it</a>
Italy	Lazio, Roma	Carducci	Claudia	<a href="mailto:claudia.carducci@uniroma1.it">claudia.carducci@uniroma1.it</a>
Italy	Liguria, Genova	Caruso	Ubaldo	<a href="mailto:ubaldocaruso@ospedale-gaslini.ge.it">ubaldocaruso@ospedale-gaslini.ge.it</a>
Italy	Campania, Napoli	Ruoppolo	Margherita	<a href="mailto:ruoppolo@dbbm.unina.it">ruoppolo@dbbm.unina.it</a>
Italy	Toscana, Firenze	La Marca	Giancarlo	<a href="mailto:g.lamarca@mever.it">g.lamarca@mever.it</a>
Italy	Puglia, Foggia	Corso	Gaetano	<a href="mailto:corso@dbbm.unina.it">corso@dbbm.unina.it</a>
Lebanon	Beirut	Khneisser	Issam	<a href="mailto:issam.khneisser@usi.edu.lb">issam.khneisser@usi.edu.lb</a>
Japan	Shimane, Izumo	Yamaguchi	Seiji	<a href="mailto:sejiivam@med.shimane-u.ac.jp">sejiivam@med.shimane-u.ac.jp</a>
Malaysia	Penang	Tan	Adi	<a href="mailto:aditan@dccusm.com">aditan@dccusm.com</a>
Mexico	Monterrey	Torres	Rosario	<a href="mailto:gcbtorres@yahoo.com">gcbtorres@yahoo.com</a>
Netherlands	Bilthoven	Loeber	Gerard	<a href="mailto:gerard.loeber@rivm.nl">gerard.loeber@rivm.nl</a>
New Zealand	Auckland	Knoll	Detlef	<a href="mailto:DetlefK@adhb.govt.nz">DetlefK@adhb.govt.nz</a>
Poland	Warsaw	Oltarzewski	Mariusz	<a href="mailto:oltarzewski@op.pl">oltarzewski@op.pl</a>
Portugal	Porto	Vilarinho	Laura	<a href="mailto:laura.vilarinho@igm.min-saude.pt">laura.vilarinho@igm.min-saude.pt</a>
Saudi Arabia	Riyadh	Rashed	Mohamed	<a href="mailto:msrashed2005@yahoo.com">msrashed2005@yahoo.com</a>
Singapore	Singapore	Goh Li Meng	Denise	<a href="mailto:paegohlm@nus.edu.sg">paegohlm@nus.edu.sg</a>
South Africa	Potchefstroom	Malan	Linda	<a href="mailto:linda.malan@nwu.ac.za">linda.malan@nwu.ac.za</a>
Spain	Murcia	Egea Mellado	José María	<a href="mailto:josem.egea2@carm.es">josem.egea2@carm.es</a>
Spain	Bilbao	Espada	Mercedes	<a href="mailto:metabobi-san@ej-qv.es">metabobi-san@ej-qv.es</a>
Spain	Santiago de Campostela	Cocho de Juan	Jose Angel	<a href="mailto:pdneonat@usc.es">pdneonat@usc.es</a>
Switzerland	Zurich	Blau	Nenad	<a href="mailto:Nenad.Blau@kispi.uzh.ch">Nenad.Blau@kispi.uzh.ch</a>
Taiwan	Taipei	Hwu	Wuh-Liang (Paul)	<a href="mailto:hwwlntu@ntu.edu.tw">hwwlntu@ntu.edu.tw</a>

Total of active participants (out of 49)  
Percentage of Contributing Participants

30	42	36	36	8
61%	86%	73%	73%	16%

# REGIONAL COLLABORATIVE PROJECT - PRIORITY 1

## TRAINING PROGRAM IN NEWBORN SCREENING BY MS/MS

Biochemical Genetics Laboratory, Mayo Clinic College of Medicine - Rochester (MN), February 11-15, 2008



BGL Personnel	Title
Piero Rinaldo, MD PhD	Project coordinator, lab director
Dimitar Gavrilov MD PhD, Dietrich Matern MD, Devin Oglesbee PhD, Kimiyo Raymond MD, Silvia Tortorelli, MD, PhD	Lab directors
R. Bonilla Guerrero MD, J. Lim PhD	Fellows
Mark Magera	BGL Development coordinator
David McHugh	Data management specialist

Participants	State
Scott Lowery	West Virginia (R2)
Lisa Bates-Dubrow	Arkansas (R5)
Fran Soderberg	Arkansas (R5)
Laura Vilarinho	Portugal (Int.)
Pallavi Patel	New Jersey (R2)

	Practical		Presentation	LEGEND		Flex time		Conferences
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TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	TIME			
8:00	Group assembly, tour of BGL, transfer to conference room	REVIEW of daily results and REPORTING	REVIEW of daily results and REPORTING (including 2nd tier tests)	REVIEW of daily results (with other BGL director)	REVIEW of daily results (participants are the PRIMARY REVIEWERS) and REPORTING	8:00			
8:30						8:30			
9:00	Introduction to MS/MS analysis (M. Magera)			2nd tier tests		REVIEW of daily results and REPORTING (including 2nd tier tests)	REVIEW of daily results and REPORTING (including 2nd tier tests)	BGL Metabolic Conference	9:00
9:30	9:30								
10:00	AA/AC profile interpretation			Review 2nd tier test results		Break (lunch)	Break (lunch)	Break (lunch)	10:00
10:30	10:30								
11:00	Selection of cutoff values			Break (lunch)		MN NBS conference call	FLEX TIME	FLEX TIME	11:00
11:30	11:30								
12:00	Break (lunch)			Overview of databases and tools of the collaborative project		Discussion participants comparison tools (1)	FLEX TIME	FLEX TIME	12:00
12:30	12:30								
13:00	Examples of profile interpretation	REVIEW of daily results and REPORTING (with other BGL director)	REVIEW of daily results and REPORTING (with other BGL director)	REVIEW of daily results and REPORTING	Presentation of certificates, closure	13:00			
13:30						13:30			
14:00	How things look like at Mayo	REVIEW of daily results and REPORTING	Discussion participants comparison tools (2)	Group Dinner		14:00			
14:30						14:30			
15:00	Planning of FLEX time					15:00			
15:30						15:30			
16:00						16:00			
16:30	REVIEW of daily results and REPORTING					16:30			
17:00						17:00			
17:30						17:30			
18:00						18:00			

FLEX TIME OPTIONS	2nd tier tests (sample prep)	2nd tier tests (analytical)	Confirmatory testing	TP cases review
	Review of participants' own data, cases (if requested)		MS/MS troubleshooting	Tools customization
	MS/MS calibration, tuning	QC/QA process & procedures	Quiet time (at last)	Shopping

**Preliminary index of Supplement to *Molecular Genetics and Metabolism (MGM)* (Updated 11-11-07)**

Title of article	Authors	Corresponding author	Acknowledgements
Laboratory quality improvement of newborn screening by MS/MS: An overview of the Region 4 HRSA Collaborative Project	Cameron, Bach, Puryear, Watson, Rinaldo	Cameron	
National and international participation to the Region 4 HRSA Collaborative Project:	All primary contacts (or designees) who have submitted at least <b>TWO</b> types of data	Rinaldo	Primary contacts who have submitted only one type of data, primary contacts who have chosen a designee as co-author
Newborn screening by MS/MS: Selection of markers, cumulative percentiles, and cutoff ranges of the Region 4 HRSA Collaborative Project	BGL personnel, participants who have submitted <b>BOTH</b> percentile and cutoff data	Rinaldo	Primary contacts who have submitted only one type of data, primary contacts who have chosen a designee as co-author
Newborn screening by MS/MS: Disease ranges and evidence-based cutoff target ranges of the Region 4 HRSA Collaborative Project	BGL personnel, <b>ALL</b> participants who have submitted data of true positive cases	Rinaldo	
Variability of pre-analytical and analytical parameters among participants to the Region 4 HRSA Collaborative Project	All primary contacts (or designees) who have submitted a <b>COMPLETE</b> participant profile	Rinaldo	Primary contacts who have submitted only partial data, primary contacts who have chosen a designee as co-author
Objective evaluation of percentile and cutoff data using comparison tools of the Region 4 HRSA Collaborative Project	All primary contacts (or designees) who have submitted <b>BOTH</b> percentile and cutoff data	Rinaldo	Primary contacts who have submitted only one type of data, primary contacts who have chosen a designee as co-author
Criteria and outcome of a sample exchange program among participants to the Region 4 HRSA Collaborative Project	KY personnel, participants who have <b>BOTH</b> submitted and received specimens	Mayfield	Participants who have only received specimens
Performance metrics of newborn screening by MS/MS among participants to the Region 4 HRSA Collaborative Project	All primary contacts (or designees) who have submitted a <b>COMPLETE</b> PM form	Rinaldo	
Utilization of second tier tests by participants to the Region 4 HRSA Collaborative Project	BGL personnel, participants who have submitted specimens for 2nd tier tests	Matern	
A training course on post-analytical interpretation of newborn screening by MS/MS for participants to the Region 4 HRSA Collaborative Project	BGL personnel, all participants who have attended the training course	Rinaldo	Supervisors/sponsors of attendees
A look to the future: Toward a web-based software for data submission and on-demand access to performance and comparison tools for participants to the Region 4 HRSA Collaborative Project	Rinaldo, McHugh, Monk, Maffitt, Cameron, Puryear, PIs of other Regional Collaboratives who have contributed funds	Rinaldo	
Improved 2nd tier test for elevated propionylcarnitine (tentative)	BGL personnel and collaborators	Matern	
Newborn screening by MS/MS of re-methylation disorders (tentative)	BGL personnel and collaborators	Gavrilov/Tortorelli	
The significance of FIGLU in newborn screening by MS/MS (tentative)	BGL personnel and collaborators	Oglesbee	