



AUBURN UNIVERSITY AT MONTGOMERY
Institute For Advanced Information Systems
Alabama TechnaCenter

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cc: Steve
Curtis

DOE/NV/11743--T1

5 Oct. 1996 (revised)

Subj: Progress report on NN- 20 Grant DE FG08- 95NV11743 and new grant
DE FG08- 96NV13083 funding status

To : Mike O' Connell NN - 20

FAX 202- 586- 2612

From : Jon Broadway  International Corps on the Environment, Auburn University at
Montgomery, Montgomery, Alabama


International Intercomparison of Environmental Measurements

Purpose of the Studies:

- Produce a quick snapshot of measurement capability in the international arena.
- Identify the types and locations of gaps and measurement deficiencies.
- Determine the feasibility to remediate the weaknesses identified.
- Identify those laboratories of exceptional quality that may be used to evaluate international forensic problems.

Status of the Planning and initial steps in the First Round intercomparison study:

- Three US quality control programs have agreed to participate with us in the intercomparison study and provide samples to participating laboratories: 1.) The QAP program from the EML laboratory in New York city, 2.) the MAPEP program from the RESL laboratory in Idaho and 3) the NIST- NOAA program from NIST in Gathersburg, MD. The first will provide samples at no cost (for an initial trial period) and the NIST program will cost \$2500 per laboratory for an estimated 20 laboratories. An agreement has been reached with NIST to minimize the cost to participants.
- Only those institutions who cannot pay the NIST fee will be supported by DOE funds. At present several laboratories in Russia and one in China have requested financial support. By the end of October 1996, we should know how many laboratories will request support.
- The project study plan has been distributed to over 80 laboratories in 56 countries. Most have already indicated that they will participate or will seriously consider participation. Participants represent all continents of the world and many regional reference laboratories or national reference laboratories. (refer to the Table 1 below).

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Budget for New Grant (unnumbered at this date)

TOTAL	\$372 K (annual allowable funding) (adjusted up from \$350 K by Budget person in NVOO)
Funded from FY96 money	- <u>\$ 89 K</u>
Remaining funded needed <u>from FY 97 funds</u>	<u>\$283 K</u>

Task breakdown for New Grant in FY 97

\$372 K TOTAL

Task 1. Intercomparison Studies	\$272 K (presently funded 89K)
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Task 2. Sub- contracts for consultants in FY 97	\$100 K (presently funded 0 K)
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Table 1 Potential Participants in QA Study

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Country	Name	Organization	City	Country	
Color Code: Red, Phase I, Green- Yes, Blue - Very Likely, Yellow- Interested					
Argentina	Adriana Casa/Issac	Comisión Nacional de	Buenos Aires,	Argentina	Likely --
	Marcos Cohen	Energia Atómica	(1429)		Phase Two
Argentina	Mr. Jorge J. Skvarca	Departamento Radiofisica,	Buenos Aires	Argentina	Likely --
		Secretario de Salud			Phase Two
Asia	Dr. A. A. Kist	Institute of Nuclear Physics	Ulugbek, 702132	Uzbekistan	Phase One
Australia	Dr. Malcolm Cooper	Radioactivity Section	Yallambie, Victoria 3085	Australia	Likely --
					Phase Two
Austria	Peter Kreitner	Bundesanstalte fuer Wasserguete,	Kaisermuehle -Wien,	A-1223 Austria	Likely --
Bolivia	Jorge Chungara Castro	Instituto Boliviana de Ciencia y Tecnología Nuclear	La Paz,	Bolivia	Phase Two
					Likely --
Brasil	Marina B. A. Vasconcellos	Instituto de Pesquisas Energetica Nucleares (IPEN/ CNEN -SP)	Sao Paulo /SP	Brasil	Phase Two
BRASIL:	Mr. I. A. Sachett	Radiation Scientist,	CEP 22602	Brasil	Yes --
		Instituto de Radioprotecao e Dosimetria	Rio de Janeiro, R. J.		Phase Two
Bulgaria	Mr. Ivan Milushev	Laboratory and Information Centre,	1202 Sofia	Bulgaria	Likely --
					Phase Two
Canada	Dr. John Smith	Bedford Institute of Oceanography	Dartmouth, Nova Scotia B2Y4A2	CANADA	Yes --
					Phase Two
CANADA	Mrs. Dr. Heather Marshall	Head, Fallout and Reactors Section	Ottawa, Ontario, K1A 1C1	Canada	Likely --
					Phase Two
Chile	Nuri Gras Rebolledo	Comisión Chilena de Energía Nuclear (CCHEN)	Santiago de Chile	Chile	Likely --
					Phase Two
Chile	Ms. Elena Poblete	PROTECTUM	Santiago	Chile	Likely --
					Phase Two
China	Huang Zhijian	China Institute for Radiation Protection	Shanxi	China	Yes--
				030006	Phase Two
Colombia	Hermes Flores Ospino	Instituto de Ciencias Nucleares y Energía Alternativa (INEA)	Bogotá,	Colombia	Likely --
					Phase Two
Costa Rica	Alfonso Salazar Matarrita	Laboratorio de Física Nuclear Aplicada	San José	Costa Rica	Yes --
					Phase Two
Croatia	Dr. Zlatica Kozarac	Research Institute Ruder Bokovic	41 000 Zagred	Croatia	Likely --
					Phase Two

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Croatia	(Mrs.) Dr. Jadranka Kovac , Head	Zagred, Department for Radiation Protection	Ksaverska cesta 2 , PO Box 291	41001 Zagreb, Croatia	Likely -- Phase Two
Cuba	Mario Pomares Alfonso	Instituto de Materiales y Reactivos	Ciudad de la Habana	Cuba	Likely -- Phase Two
Czech Republic	Mr. Josef Drozd	Povodi Moravy (Water Laboratories Department) and	601 75 Brno	Czech Republic	Likely -- Phase Two
Denmark	Ulla Lund	Water Quality Institute	Horsholm	Denmark	Likely -- Phase Two
Denmark	Ulla Lund	Water Quality Institute	Horsholm	Denmark	Likely -- Phase Two
Denmark	Mr. Asger Aarkrog	Riso Research Center	X	Denmark	Likely -- Phase Two
Ecuador	Raúl E. Guervara	Comisión Ecuatoriana de Energía Atómica	Quito	Ecuador	Likely -- Phase Two
England	Mr. Brian Chapman	National Physical Laboratory	England	United Kingdom TW11 0LW	Likely -- Phase Two
England	Mr. Keith Playford	AEA Technology	Oxfordshire OX14 3DB	United Kingdom	Very Likely -- Phase Two
Ethiopia	Dr. Hailu Wolde	Inst. of Pathobiology	Addis Ababa,	Ethiopia	Very Likely -- Phase Two
France	Dr. P. Martin	Section de Surveillance Radiologique	F-50115 Cherbourg	France	Likely -- Phase Two
France	Mr. Yves Bourlat	CEA/ DIRCEN	F- 91311 Monthéry	FRANCE	Likely -- Phase Two
France	Mr. Yves Bourlat	CEA/ DIRCEN	F- 91311 Monthéry	FRANCE	Likely -- Phase Two
Germany	Dr. G. Kanisch	Bundesforschungsanstalt fur Fischerei	D-22589 Humburg	GERMANY	Likely -- Phase Two
Germany	Attn: Mr. Georg Demmler	Bayerisches Landesamt fuer Wasserwirtschaft,	80646 Muenchen	Germany	Likely -- Phase Two
Guatamala	Enrique Aguilar Sandoval	Dirección General de Energía Nuclear	Ciudad Guatemala	Guatamala	Likely -- Phase Two
Hungary	Dr. Peter Literathy, Director of Institute	Water Resources Research Centre (VITUKI)	1095 Budapest	Hungary	Yes-- Phase Two
Hungary	Dr. Béla Kanyar,	Department of	PO Box 101	H- 1775	Likely --

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	Head	Radiation Hygiene, Frédéric Joliot - Curie		BUDAFOK 1, Hungary	Phase Two
Hungary	Dr. Ruben Mnatsakanian, Associate Professor	Dept. of Environmental Sciences and Policy	H-1051 Budapest	HUNGARY	Likely -- Phase Two
INDIA	Dr. K.S.V. Nambi, Head	Environmental Assessment Division	Trombay, Bombay 400 085	INDIA	Likely -- Phase Two
INDONESIA	Mr. S. Soekarno, Director, // Mr. Suhartono Zahir, Director,	Centre for Standardization and Radiation Safety Research	Jakarta, 12070	INDONESIA	Likely -- Phase Two
Japan	Dr. Kohki Nakajima, //Dr. Masatoshi Morita,	Senior Researcher, and Director, Regional Environmental Research Division	Tsukuba, Ibaraki 305	Japan	Yes-- Phase Two
Kazakhstan	Attn: Abil Zhetbaev	Institute of Nuclear Physics		Kazakhstan	Likely -- Phase Two
KOREA, Rep. of	Mr. Chan Kirl PAK	Manager, Radiochemical Analysis Department	Taejon,	Republic of Korea, 305- 606	Likely -- Phase Two
Mexico	Dr. Evgeny Shumilin	Interdisciplinary Center of Marine Sciences (CICIMAR)	La Paz	Baja California Sur 23000 Mexico	Very Likely -- Phase Two
Mexico	Romeo F. Rodriguez Loya	Instituto Nacional de Investigaciones Nucleares	Salazar Edo. de Mexico	Mexico	Likely -- Phase Two
Mexico	Dr. Yoshito Mitani Nakanishi, Director de Metrologia de Materiales	Centro Nacional de Metrologia (CENAM)	Apartado Postal 1-100 Centro	CP76000	Yes-- Phase Two
Moldova	Mr. Dumitru Drumea	National Institute of Ecology	277060 Kishinev,	Republic of Moldova	Likely -- Phase Two
Monaco	Attn: Dr. Vas	Marine Environmental Laboratory	MC 98012	Monaco	Very Likely -- Phase Two
MONGOLIA	Mr. T. Toivgo	Director of the State Inspectorate for Hygiene and Epidemiology	ULAANBAA TAR 49	Mongolia	Likely -- Phase Two
Morocco	Attn: Dr. Yousfi	Ministry of Public	Rabat,	Morocco	Yes--

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	Charif, Director CNRP	Health			Phase Two
New Zealand	Dr. K. M. Matthews, Head,	Environmental Radioactivity Section	Christchurch	New Zealand	Likely -- Phase Two
Paraguay	Virginia Romero de González	Comisión Nacional de Energía Atomica	CC: 3023 Asunción	Paraguay	Likely -- Phase Two
Peru	Chem. Maria Luisa Castro de Esparza	PAHO - CEPIS	Lima	Peru	Attn: Henry Salas//Mari a Luisa Castro de Esparza// Sergio Caporali Yes-- Phase Two
Perú	Eduardo H. Montoya Rossi	Instituto Peruano de Energía Nuclear (IPEN)	Lima 41	Perú	Very Likely -- Phase Two
Perú	Señor Ulises Minaylla Alarcon	Commisión Permanente del Pacífico Sur (CPPS)	Lima	Perú	Yes-- Phase Two
South Am					
Poland	Dr. R. Bojanowski	Institute of Oceanology _PAN	PL- 81- 712 Sopot	Poland	Likely -- Phase Two
Republic of Yugoslavia, Serbia	Mrs. Radmia Brnovic	University Clinical Centre	Belgrade,	Yugoslavia (Serbia)	Likely -- Phase Two
Republica Dominicana	Julio Moises Alvarez	Univerisdad Nacional Pedro Henríquez Ureña (UNPHU)	Santo Domingo	Republica Dominicana	Likely -- Phase Two
Romania	Dr. Aurel Varduca	Ministry of Waters, Forests and Environmental Protection,	77703 Bucharest 78	Romania	Likely -- Phase Two
Romania	Dr. C. Milu, Head	Radiation Hygiene Laboratory	76256 Bucharest 35	Romania	Very Likely -- Phase Two
Russia	Attn: Dr. Danilenko Vladmir Nikolaevich	VNIIFTRT (Gosstandart)	X	Russia	
Russia	Center for Emergency Situations	Dr. Sergei Semenov	Yu. X	Russia	Phase One
Russia	Dr. Konoplev	Alexei 249020 Obninsk, Kaluga Region	Kaluga Oblast	Russia	Phase One

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Russia	Attn: Dr. Nicolai Klyuev	Inst. Evolutionary Morphology and Animal Ecology	Lenin and Prospekt 33	Russia	Phase One
Russia	Dr. Yuri Sapozhnikov	Moscow State University	119899 Moscow	Russia	Phase One
Russia	Dr. Victor Tishkov	V.G. Khlopin Radium Institute	194021 Petersburg,	Russia	Phase One
Russia	Dr. Alexander Zhulidov	Hydrochemical Institute	344104 Rostov - on Don	Russia	Phase One
Russia	Dr. Oleg Cherp	Ecologia	Minsk -113	220113 Republic of Belarus	Phase One
Russia	Dr. Marina Khotulyeva	Center for Independent Ecological Studies	127474 Moscow	Russia	Phase One
Russia	Dr. Sergei Yufit	Institute of Organic Chemistry	Moscow,	Russia	Phase One
Slovakia	Mr. Milan Matuska	The Water Research Institute	Bratislava	Slovakia	Likely -- Phase Two
Slovakia	Dr. Vladimir Jansta	Contact Officer	040 61 Kosice	Slovakia	Likely -- Phase Two
Slovenia	Mrs. Martina Zupan	Hydrometeorological Institute of Slovenia,	61000 Ljubljana	Slovenia	Likely -- Phase Two
Slovenia	Dr. Lovinck Davor	Institute for Hygiene	61000 Ljubljana	Slovenia	Likely -- Phase Two
Spain	Dr. Vicente Serradel Garcia	Universidad Politecnica de Valencia	46022 Valencia	España	Yes -- Phase Two
Sweden	Dr. Elis Holm	Radiation Physics Department	S-221 85 Lund	SWEDEN	Likely -- Phase Two
Sweden	Mr. John - Christer Lindhe	Division of Environmental Radiology	S- 10401 Stockholm	Sweden	Likely -- Phase Two
Switzerland	Dr. R. Rauber	Centrale Nationale d'Alarme	Zurich	Switzerland	Likely -- Phase Two
UK	Dr. Dennis Woodhead	MAFF	Lowestoft, Suffolk NR33 OHT	UK	Very Likely -- Phase Two
Ukraine	Attn: Mr. Viktor Morozov	Reference Laboratory for Ukraine:	272630, Ismail, Odeskaya OBL,	Ukraine	Likely -- Phase Two
Ukraine	Attn: Ms. Olga Krutko	Reference Laboratory for Ukraine:	272630, Ismail,	Ukraine	Likely -- Phase Two

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			Odeskaya OBL,		
UNEP- HEM	James McKenna	X	X	X	
United Kingdom	Dr. David Wells		X	United Kingdom	XX
Uruguay	Carlos Vera Tartaglia	Dirección Nacional de Tecnología Nuclear	Montevideo	Uruguay	Likely -- Phase Two
USA	Dr. H.D. Livingston	Woods Hole Oceanographic Institution	Woods Hole, MA 02543	USA	Likely -- Phase Two
USA	Dr. W. Robison	Lawrence Livermore National Laboratory	Livermore, CA 94551- 9900	USA	Phase One
USA	Attn: Guy M. Marlette,	MAPEP Coordinator	Idaho Falls, ID 83401- 1563	USA	Yes-- Phase Two
USA	Attn: Catherine Klusek	Environmental Measurements Laboratory	New York, NY 10014	USA	Phase One
USA	Attn: Mr. Jim Moore/ Section	US EPA QA	Montgomery, Al 36115	USA	Very Likely -- Phase Two
USA	Dr. Howard Hall / Jeanne Bazan	LLNL	Livermore, CA 94551- 9900	USA	Very Likely -- Phase Two
USA	Dr. Tom Yoshida	LANL CST-9	Los Alamos, NM 87545	USA	Very Likely -- Phase Two
USA	Dr. Colin Sanderson	Environmental Measurements Laboratory	New York, NY 10014	USA	Yes-- Phase Two
USA	Attn: Brian Butterworth	US EPA	Duluth , MN 55804	USA	Yes-- Phase Two
USA	Ms. Kathy Ron Bobel	Gill/ Quanterra	Sacramento, CA 95605	USA	Very Likely -- Phase Two
USA	Dr. David Curdy, Director,	Mc Laboratory Development	Bolton, MA 01740 -1398	USA	Very Likely -- Phase Two

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Venezuela	Laszlo Sajo Bohus	Universidad Simón Bolívar, Departamento de Física	Caracas	Venezuela YV- 1080 A	Yes-- Phase Two

Time Line for Intercomparison Project Tasks

May - July 1996 (completed)

1. Draft Work Plan and Distribute to Potential Participants
2. Start Development of a Shipping plan for a potential participants
3. Determine exact shipping addresses for environmental samples.

August - Sept. 1996 (completed)

1. Distribute revised work plan to all participants and incorporate comments.
2. Confirm each participant's agreement to participate with EML - QAP, NIST, or MAPEP as needed.

Oct. - Nov. 1996 (on schedule)

1. Mail/distribute standards and laboratory instruction packages form EML, NIST, or MAPEP.
2. Confirm understanding of project requirements with each laboratory.

Dec. 1996- Feb. 1997 (pending official start of first round)

1. Receive and compile measurement results
2. Supply additional information to laboratories where needed.
3. Distribute payments for laboratory fees based on receipt of results.

Mar. April 1997

1. Prepare draft report
2. Distribute to DOE, WHO and NIST for review and comment.

May 1997

1. Revise draft report
2. Pay laboratory service fees, where needed.

June 1997

1. Print/reproduce final report

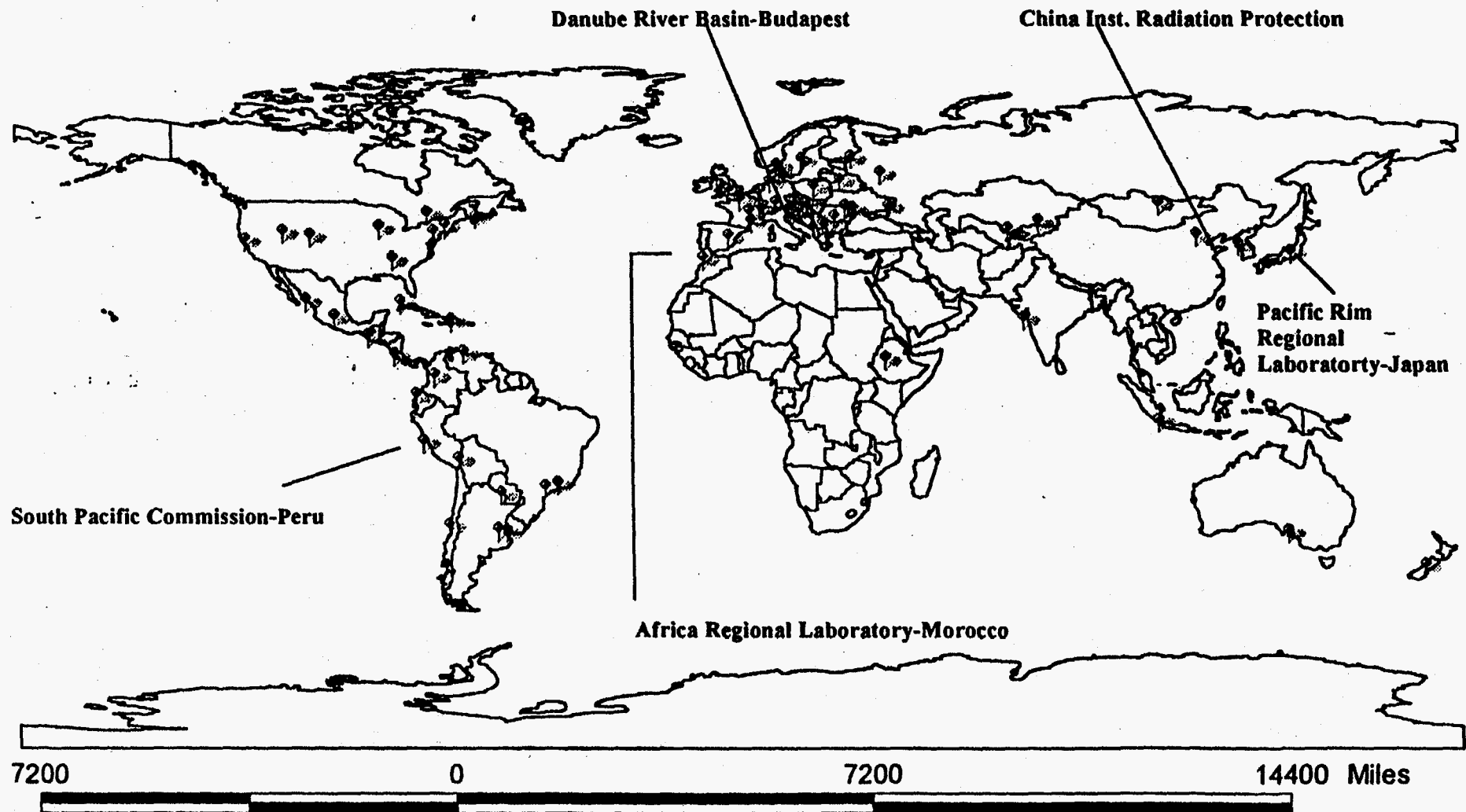
July 1997

1. Distribute final report

CC: Dr. Karl Veith

Mr. Steve Curtis ✓

Participating Laboratories Worldwide



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● Laboratories
□ Countries

