



INFRASTRUCTURE, SAFETY,
AND ENVIRONMENT

Human Biospecimen Database

Elisa Eiseman

ICORD 2007

This presentation is based on RAND Corporation research and author's opinions. Portions of this presentation describe work-in-progress that has not undergone RAND quality assurance procedures.

A Joint Project of

RAND ISE and

NIH Office of Rare Diseases



INFRASTRUCTURE, SAFETY,
AND ENVIRONMENT



GOAL

To facilitate research leading to treatments and cures for rare diseases, as well as more common diseases, by improving researchers' access to needed human biospecimens

OBJECTIVES

- **Create a publicly available, searchable, Web-based database of biorepositories**
- **Facilitate researchers' access to human biospecimens by providing a system that provides access to information about repositories and their collections.**
- **Identify unmet needs of researchers in obtaining human biospecimens for research on rare diseases.**
- **Provide information to researchers, the wider research community and other interested parties about biorepositories and biospecimens**

Human Biospecimen Collections

- **> 307 million specimens stored in the United States***
 - **Accumulating at a rate of > 20 million per year**
- **> 30 million specimens have been collected specifically for research purposes:**
 - **Stored at >300 biorepositories in the United States**
- **> 250 million specimens originally collected for diagnostic or therapeutic reasons**
 - **Stored in pathology labs**

* From: Eiseman, E and Haga S. *Handbook of Human Tissue Sources: A National Resource of Human Tissue Samples*. RAND MR-954-S&TPI (September 1999)

Human Biospecimen Collections

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* From: Eiseman, E and Haga S. *Handbook of Human Tissue Sources: A National Resource of Human Tissue Samples*. RAND MR-954-S&TPI (September 1999)

Information in the Database

- General information about each biorepository
- Number and type(s) of biospecimens stored at each repository
- Processing methods (e.g., paraffin blocks, slides, snap frozen)
- Storage conditions (e.g., room temperature, frozen in liquid nitrogen) and length of storage
- Type of informed consent
- Limitations associated with the use of biospecimens
- Costs of obtaining biospecimens

Human Biospecimen Database

- Timeline -

- **Year 1 (completed):**
 - Construct and pilot test database, data collection website, and XML schema
 - Construct search interface and website
- **Years 2 & 3 (Fall 2007 – Fall 2009):**
 - Expand information in the Human Biospecimen Database
 - Invite biorepositories outside of U.S. to participate
 - Track unmet needs of the research community in obtaining human biospecimens for research purposes
 - Update and maintain database

Data entry page:

<http://smapp.rand.org/biospecimen/repositories/>

RAND Human Biospecimen Data Collection

DEVELOPED BY RAND ISE UNDER CONTRACT WITH THE NIH OFFICE OF RARE DISEASES

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Overview

Welcome to the Human Biospecimen Data Collection Web site. This Web site contains data entry screens to collect information from biorepositories about the types of human biospecimens they collect, store, and distribute for research use. The Web site was developed under contract with the National Institutes of Health (NIH) Office of Rare Diseases (ORD).

We are contacting biorepositories in the United States to obtain information about the types of human biospecimens that they collect, store, and distribute for research purposes. The information we collect will be used to create an interactive, comprehensive database that is accessible via a Web browser, is searchable online, and contains detailed information about human biospecimens that are collected, stored, and distributed by biorepositories for research use in the United States. The purpose of this project is to facilitate research leading to treatments and cures for rare diseases, as well as more common diseases, by improving researchers' access to needed human biospecimens by providing a system that enables them to access information about biorepositories and their collections.

This Web-based, searchable database of biospecimens collected, stored, and distributed by biorepositories for research purposes will be the first of its kind and will be extremely useful as a comprehensive reference source of human biospecimens in the United States. The new database will contain up-to-date information first and foremost for biomedical researchers, but also for other segments of the biomedical research community (e.g., research funding entities, professional societies, patient advocacy groups, research administrators, and the biotechnology and pharmaceutical industries). All interested parties will be able to use the database to identify and obtain resources for basic and translational research as well as drug development in rare diseases, genetics, rare and common cancers, immunology, physiology, and cell biology, among other disciplines. Beyond providing information about the availability of biospecimens, this database will also provide information about repositories that collect, store, and distribute biospecimens that will be invaluable to the planning and implementation of biomedical research on rare diseases and orphan drug development.



The Human Biospecimen Data Collection Web site was developed by RAND Infrastructure, Safety, and Environment under a contract with the [Office of Rare Diseases](#) at the National Institutes of Health

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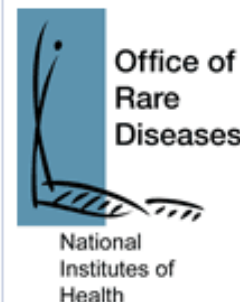
Email this resource to a friend or colleague

Goals and Objectives

The goal of the RAND project is to facilitate research leading to treatments and cures for rare diseases, as well as more common diseases, by improving researchers' access to needed human biospecimens by providing a system that enables them to access information about biorepositories and their collections via a comprehensive, searchable database that is accessible via a Web browser.

Objectives

1. Create a publicly available, searchable, Web-based database of biorepositories that collect, store, and distribute human biospecimens for research use.
2. Facilitate researchers' access to human biospecimens for use in research by providing a system that enables

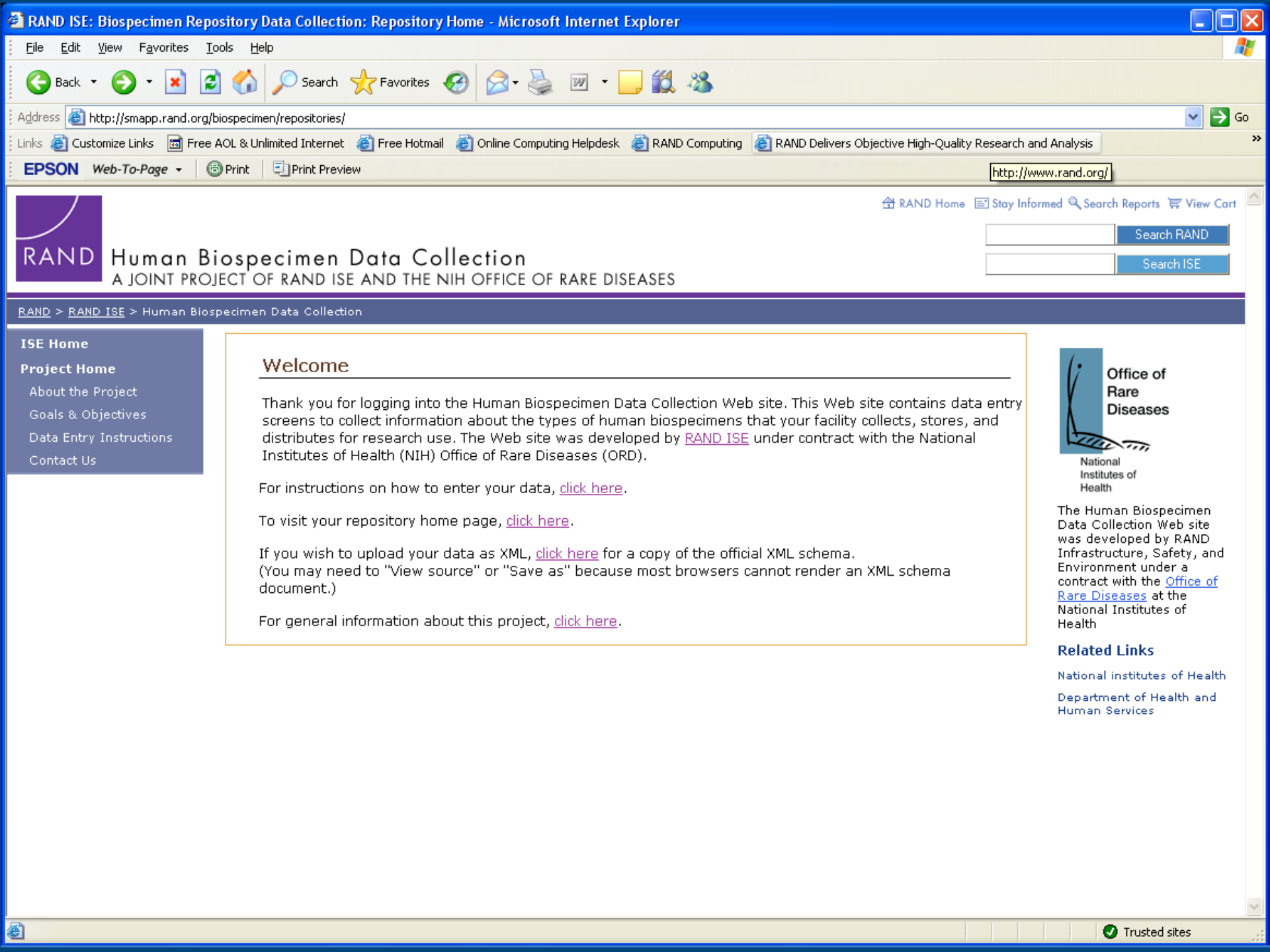


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ISE Home

Project Home

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- Goals & Objectives
- Data Entry Instructions
- Contact Us

Welcome

Thank you for logging on to the screens to collect and distribute data for research at the National Institutes of Health.

For instructions on how to use the site, click on the "Help" link.

To visit your repository, click on the "Repositories" link.

If you wish to upload a new specimen (You may need to "check" the document.)

For general information, click on the "About" link.

Enter Network Password



This secure Web Site (at smapp.rand.org) requires you to log on.

Please type the User Name and Password that you use for biospecimen.

User Name

Password

☐ Save this password in your password list

OK

Cancel

The site contains data entry screens to collect, store, and manage data with the National



National Institutes of Health

The Human Biospecimen Data Collection Web site was developed by RAND Infrastructure, Safety, and Environment under a contract with the [Office of Rare Diseases](#) at the National Institutes of Health.

Related Links

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[Department of Health and Human Services](#)



Repository Home

Name:

Username: DEMO

NIH Institute:

Telephone: () - , x

Fax: () -

Address 1:

Address 2:

Address 3:

Address 4:

Room, Suite, Floor:

City: , State: ZIP + 4: -

Web Site:

Please provide a short overview of your repository that includes things such as the purpose of the repository, a brief description of the types of biospecimens in your collection, and the availability of the biospecimens for research.

Contacts

[Add new](#)

No contacts to edit.

Add a Contact

Name

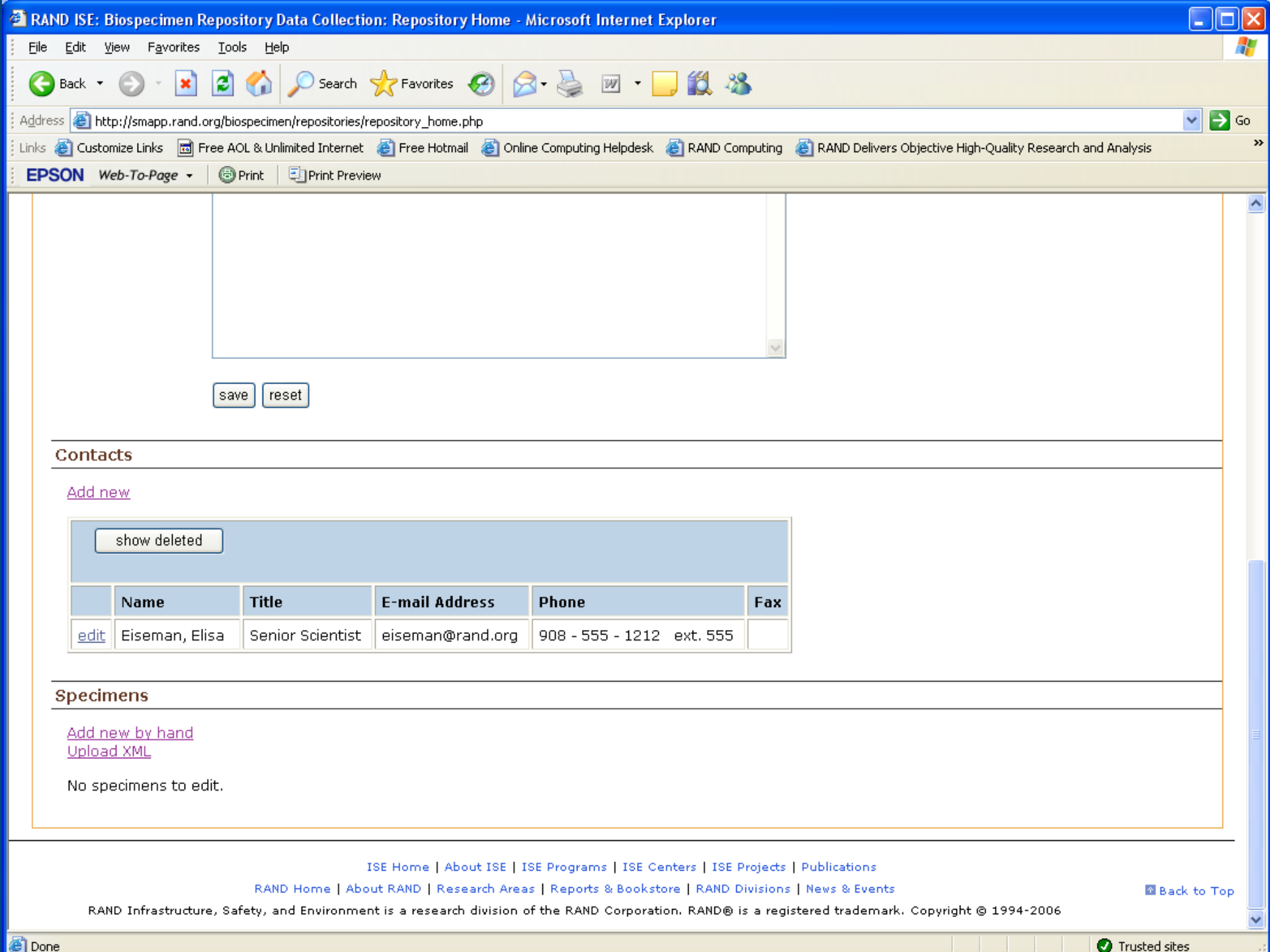
Title

Telephone () - , x

Fax () -

E-mail Address

[<< Back to repository home](#)





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ND > RAND ISE > Human Biospecimen Data Collection > Database Entry

Add New Specimens

Human Biospecimen Data Collection Web site

Disease *
(Choose one only.)

Cancers

Rare Diseases

Other Diseases

-- or --

OMIM Number

Biospecimen *
(You may select multiple.)

Adipose
Adrenal Gland
Amniotic Fluid
Aorta
Appendix
Artery
Bladder
Blood
Bone
Bone Marrow

Cost per sample
(Numbers or text)

Type of consent
(Select one only.)

Other
Unknown
None
Research
Surgical/Medical

Limitations
(Select one only.)

Other
Acknowledgement of biorepository re
Approved investigators only
Collaboration required
May not be used for commercial purpo
Not transferable to third parties
Use restricted to scientific/medical res

[save](#) [reset](#)

* If you do not find the disease name you wish to enter and cannot use an OMIM Number or if you cannot find the type of biospecimen that you wish to select, please [click here](#).

Add New Specimens

Demo User

Disease * (Required. Choose one only.)	Biospecimen * (Required. You may select multiple.)	Cost per sample (Numbers or text)	Type of consent (Select one only.)	Limitations (Select one only.)
<div>Cancers</div> <div>Ataxia-Telangiectasia</div> <div>Other Diseases</div> <div>-- or --</div> <div>OMIM Number</div> <div></div>	<div>Adipose</div> <div>Adrenal Gland</div> <div>Amniotic Fluid</div> <div>Aorta</div> <div>Appendix</div> <div>Artery</div> <div>Bladder</div> <div>Blood</div> <div>Bone</div> <div>Bone Marrow</div>		<div>Other</div> <div>Unknown</div> <div>None</div> <div>Research</div> <div>Surgical/Medical</div>	<div>Other</div> <div>Acknowledgement of biorepository re</div> <div>Approved investigators only</div> <div>Collaboration required</div> <div>May not be used for commercial purp</div> <div>Not transferable to third parties</div> <div>Use restricted to scientific/medical res</div>
<div>save</div> <div>reset</div>				

* If you do not find the disease name you wish to enter and cannot use an OMIM Number or if you cannot find the type of biospecimen that you wish to select, please [click here](#).

[« Back to repository home](#)



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 Search ISE

RAND > RAND ISE > Human Biospecimen Data Collection > Database Entry

Add New Specimens

Demo User

Disease * (Required. Choose one only.)	Biospecimen * (Required. You may select multiple.)	Cost per sample (Numbers or text)	Type of consent (Select one only.)	Limitations (Select one only.)
<div>Cancers</div> <div>Ataxia-Telangiectasia</div> <div>Other Diseases</div> <div>-- or --</div> <div>OMIM Number</div> <div><input type="text"/></div>	<div>Adipose</div> <div>Adrenal Gland</div> <div>Amniotic Fluid</div> <div>Aorta</div> <div>Appendix</div> <div>Artery</div> <div>Bladder</div> <div>Blood</div> <div>Bone</div> <div>Bone Marrow</div>	<div><input type="text"/></div>	<div>Other</div> <div>Unknown</div> <div>None</div> <div>Research</div> <div>Surgical/Medical</div>	<div>Other</div> <div>Acknowledgement of biorepository re</div> <div>Approved investigators only</div> <div>Collaboration required</div> <div>May not be used for commercial purpo</div> <div>Not transferable to third parties</div> <div>Use restricted to scientific/medical res</div>

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Add New Specimens

Demo User

Disease * (Required. Choose one only.)	Biospecimen * (Required. You may select multiple.)	Cost per sample (Numbers or text)	Type of consent (Select one only.)	Limitations (Select one only.)
<div>Cancers</div> <div>Ataxia-Telangiectasia</div> <div>Other Diseases</div> <div>-- or --</div> <div>OMIM Number</div> <div></div>	<div>Adipose</div> <div>Adrenal Gland</div> <div>Amniotic Fluid</div> <div>Aorta</div> <div>Appendix</div> <div>Artery</div> <div>Bladder</div> <div>Blood</div> <div>Bone</div> <div>Bone Marrow</div>	<div>\$20</div>	<div>Other</div> <div>Unknown</div> <div>None</div> <div>Research</div> <div>Surgical/Medical</div>	<div>Other</div> <div>Acknowledgement of biorepository re</div> <div>Approved investigators only</div> <div>Collaboration required</div> <div>May not be used for commercial purpo</div> <div>Not transferable to third parties</div> <div>Use restricted to scientific/medical res</div>
<div>save</div> <div>reset</div>				

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Add New Specimens

Demo User

Disease * (Required. Choose one only.)	Biospecimen * (Required. You may select multiple.)	Cost per sample (Numbers or text)	Type of consent (Select one only.)	Limitations (Select one only.)
<div>Cancers</div> <div>Ataxia-Telangiectasia</div> <div>Other Diseases</div> <div>-- or --</div> <div>OMIM Number</div> <div><input type="text"/></div>	<div>Adipose</div> <div>Adrenal Gland</div> <div>Amniotic Fluid</div> <div>Aorta</div> <div>Appendix</div> <div>Artery</div> <div>Bladder</div> <div>Blood</div> <div>Bone</div> <div>Bone Marrow</div>	<div>\$20</div>	<div>Other</div> <div>Unknown</div> <div>None</div> <div>Research</div> <div>Surgical/Medical</div>	<div>Other</div> <div>Acknowledgement of biorepository re</div> <div>Approved investigators only</div> <div>Collaboration required</div> <div>May not be used for commercial purpo</div> <div>Not transferable to third parties</div> <div>Use restricted to scientific/medical res</div>

save reset

* If you do not find the disease name you wish to enter and cannot use an OMIM Number or if you cannot find the type of biospecimen that you wish to select, please [click here](#).

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Edit Specimens by Disease

Demo User

Disease/OMIM: Ataxia-Telangiectasia

Cost per sample
\$35

Consent

Other

Unknown

Limitations

Acknowledgement of biorepository

Approved investigators only

save

reset

Specimens

Delete	Tissue	Number	Processing	Storage
<input type="checkbox"/>	Blood	<div></div>	<div></div>	<div></div>

save

reset

Edit Specimens by Disease

Demo User

Disease/OMIM: **Ataxia-Telangiectasia**

Cost per sample
\$3.5

Consent
Other
Unknown

Limitations
Acknowledgement of biorepository
Approved investigators only

Specimens

Delete	Tissue	Number	Processing	Storage
<input type="checkbox"/>	Blood	<input type="text"/> <div> 1-10 11-50 51-200 201-500 501+ </div>	<input type="text"/>	<input type="text"/>

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Edit Specimens by Disease

Demo User

Disease/OMIM: **Ataxia-Telangiectasia**

Cost per sample

\$35

Consent

Other

Unknown

Limitations

Acknowledgement of biorepository

Approved investigators only

save

reset

Specimens

Delete	Tissue	Number	Processing	Storage
<input type="checkbox"/>	Blood	11-50		

save

reset

- Other
- Cell culture
- DNA
- Fixed
- Formalin-fixed paraffin-embedded
- Fresh
- Frozen
- OCT
- RNA
- Slides
- Snap-frozen in liquid nitrogen
- Tissue Microarray
- Touch Prep Slides

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Edit Specimens by Disease

Demo User

Disease/OMIM: **Ataxia-Telangiectasia**

Cost per sample

\$35

Consent

Other
Unknown

Limitations

Acknowledgement of biorepositor
Approved investigators only

Specimens

Delete	Tissue	Number	Processing	Storage
<input type="checkbox"/>	Blood	11-50	RNA	<div> <input type="text"/> </div> <div> Other Room temperature Refrigerated (4 degrees Celsius) -20 degrees Celsius Freezer -80 degrees Celsius Freezer Frozen in liquid nitrogen </div>

Edit Specimens by Disease

Demo User

Disease/OMIM: **Ataxia-Telangiectasia**

Cost per sample

\$35

Consent

Other

Unknown

Limitations

Acknowledgement of biorepository

Approved investigators only

save

reset

Specimens

Delete	Tissue	Number	Processing	Storage
<input type="checkbox"/>	Blood	11-50	RNA	Frozen in liquid nitrogen

save

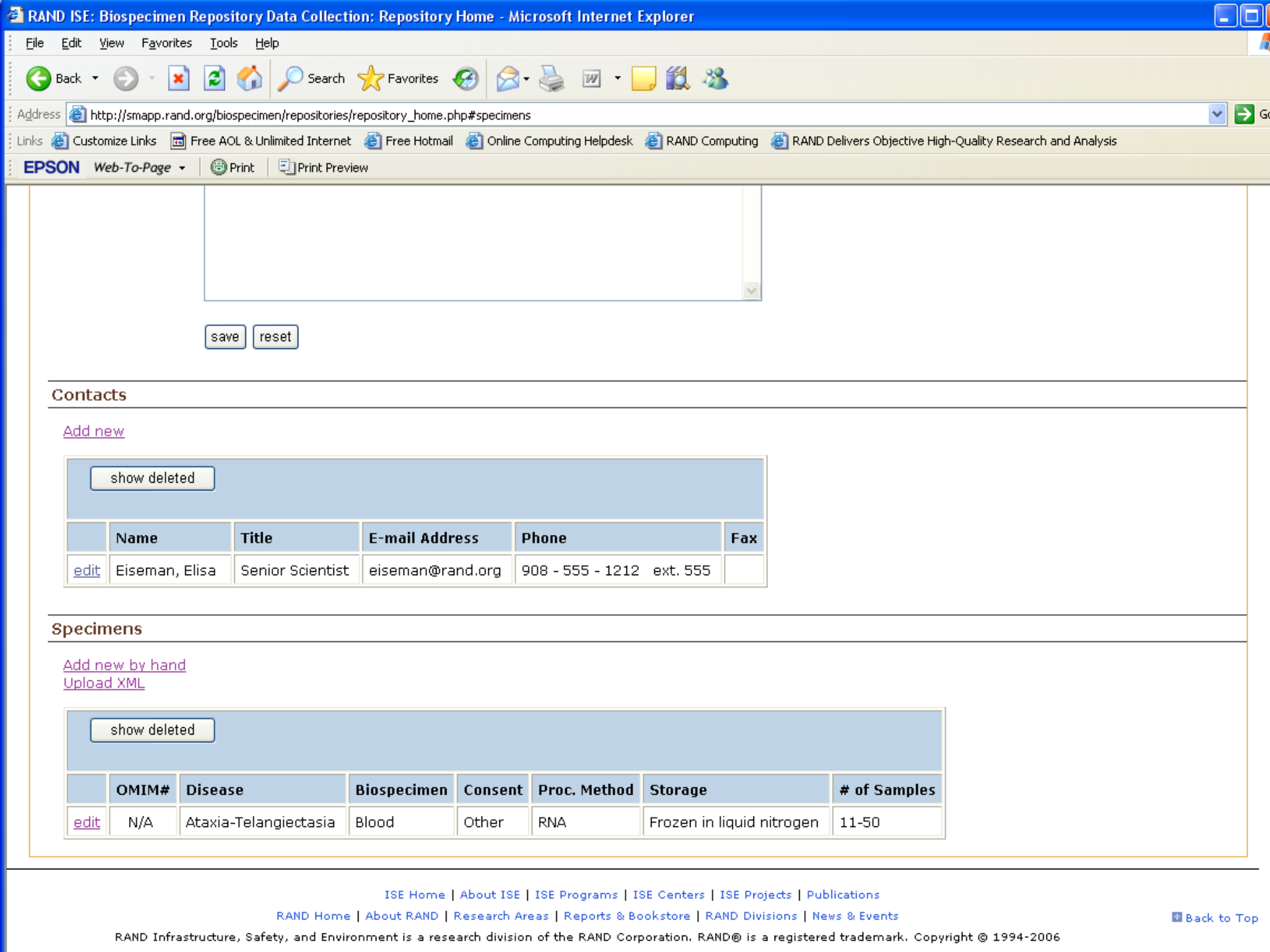
reset

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save reset

Contacts

[Add new](#)

show deleted

	Name	Title	E-mail Address	Phone	Fax
edit	Eiseman, Elisa	Senior Scientist	eiseman@rand.org	908 - 555 - 1212 ext. 555	

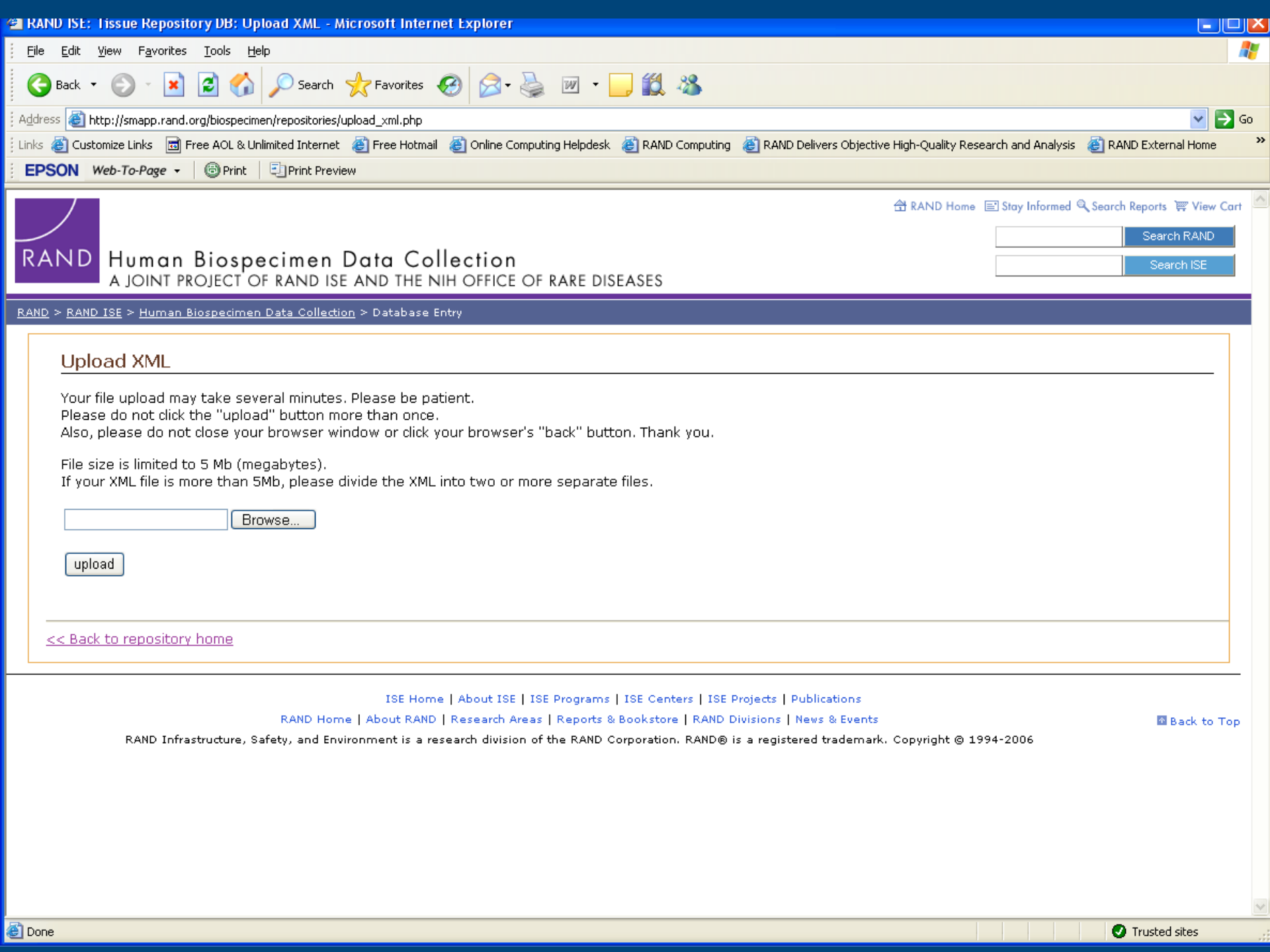
Specimens

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[Upload XML](#)

show deleted

	OMIM#	Disease	Biospecimen	Consent	Proc. Method	Storage	# of Samples
edit	N/A	Ataxia-Telangiectasia	Blood	Other	RNA	Frozen in liquid nitrogen	11-50



Upload XML

Your file upload may take several minutes. Please be patient.
Please do not click the "upload" button more than once.
Also, please do not close your browser window or click your browser's "back" button. Thank you.

File size is limited to 5 Mb (megabytes).
If your XML file is more than 5Mb, please divide the XML into two or more separate files.

C:\Documents and Settings

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show deleted

	OMIM#	Disease	Biospecimen	Consent	Proc. Method	Storage	# of Samples
edit	N/A	Adenocarcinoma	Colorectal	Surgical/Medical	Fresh	Frozen in liquid nitrogen	51-200
edit	N/A	Adenocarcinoma	Colorectal	Surgical/Medical	Tissue Microarray	Frozen in liquid nitrogen	11-50
edit	N/A	Ataxia-Telangiectasia	Blood	Other	Cell culture	Other	501+
edit	N/A	Ataxia-Telangiectasia	Blood	Other	RNA	Frozen in liquid nitrogen	11-50
edit	N/A	Ataxia-Telangiectasia	Blood	Other	DNA	-80 degrees Celsius Freezer	201-500
edit	N/A	Ataxia-Telangiectasia	Blood	Other	DNA	-80 degrees Celsius Freezer	1-10
edit	N/A	Ataxia-Telangiectasia	Blood	Other	Cell culture	Other	51-200
edit	N/A	Basal Cell Carcinoma	Skin	Unknown	Formalin-fixed paraffin-embedded	Room temperature	11-50
edit	N/A	Duchenne muscular dystrophy	Muscle	Research	Snap-frozen in liquid nitrogen	Frozen in liquid nitrogen	11-50
edit	N/A	Melanoma	Skin	Surgical/Medical	Snap-frozen in liquid nitrogen	Frozen in liquid nitrogen	51-200

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Search Page:

<http://smapp.rand.org/biospecimen/search.php>

RAND ISE: Biospecimen Repository Search

Search by disease and tissue

Disease (Choose 0 or 1.)

Cancers

Rare Diseases

Other Diseases

-- or --

OMIM Number

search

Biospecimen

-- Select 0 or more. --
Adipose
Adrenal Gland
Amniotic Fluid
Aorta
Appendix
Artery
Bladder
Blood
Bone

Processing Method

-- Select 0 or more. --
Other
Cell culture
DNA
Fixed
Formalin-fixed paraffin-embedded
Fresh
Frozen
OCT
RNA

Storage Method

-- Select 0 or more. --
-20 degrees Celsius Freezer
-80 degrees Celsius Freezer
Frozen in liquid nitrogen
Other
Refrigerated (4 degrees Celsius)
Room temperature

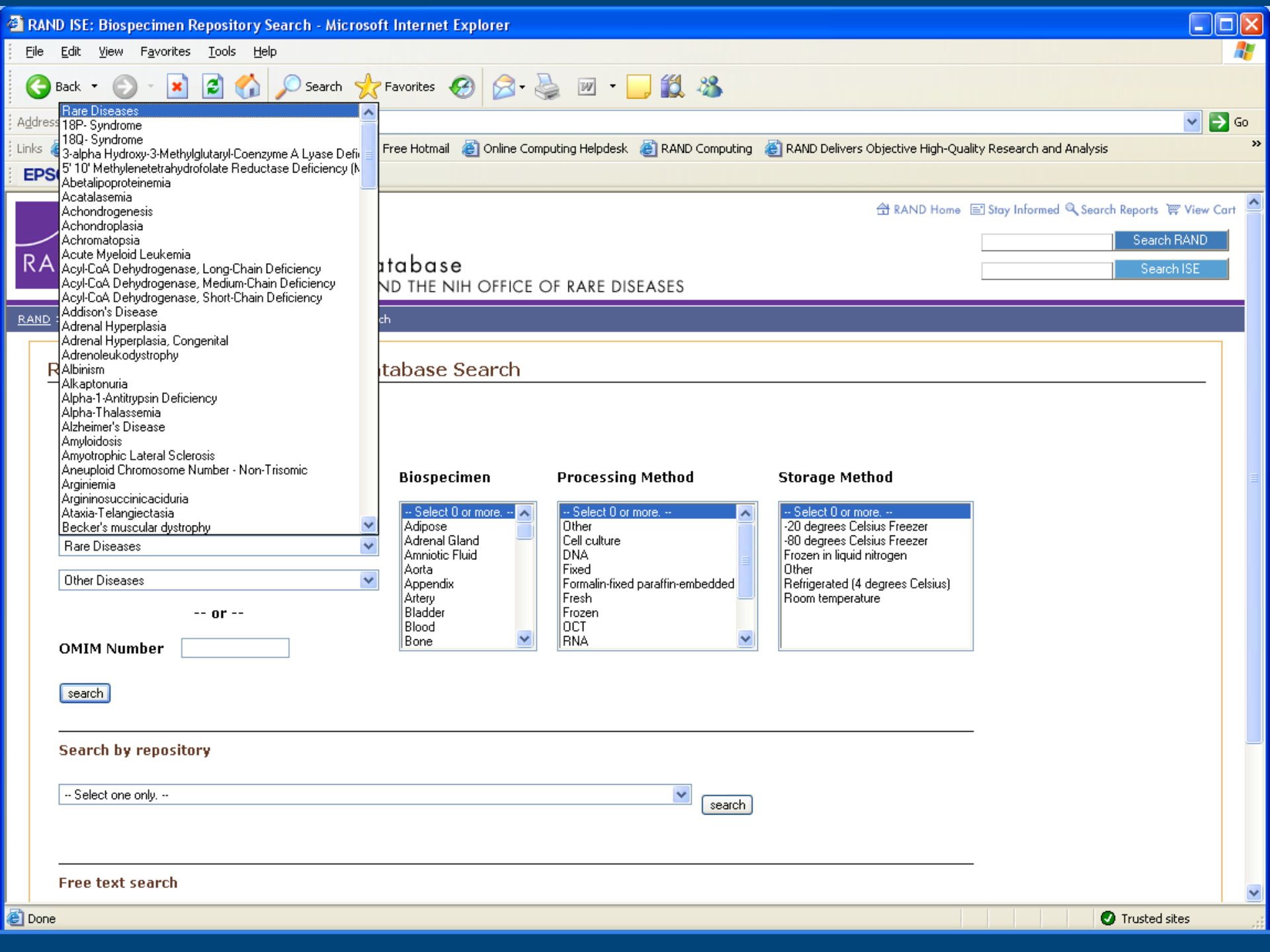
Search by repository

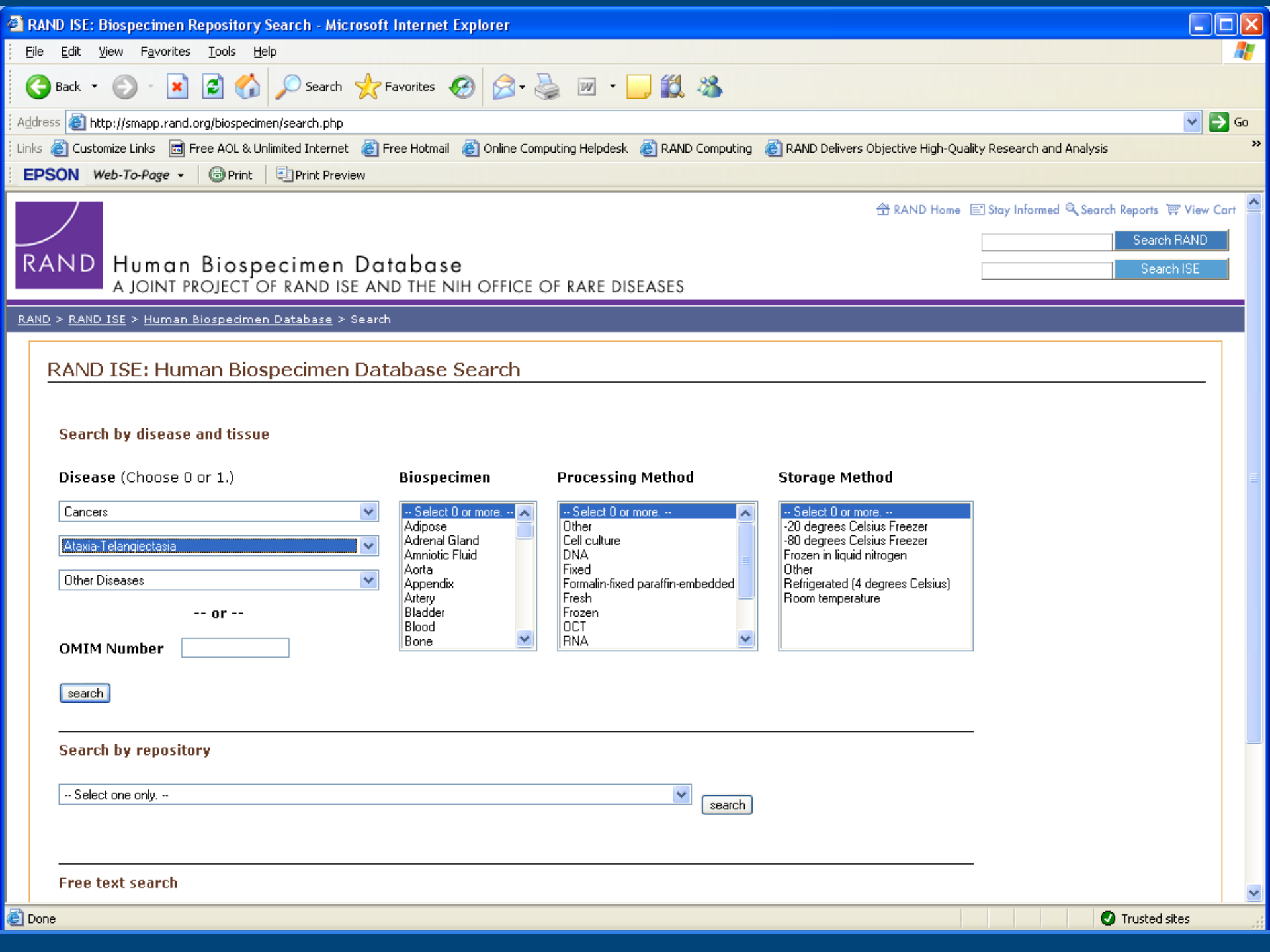
-- Select one only. --

search

Free text search

search





RAND ISE: Biospecimen Repository Search: Results

[New search](#)

Show full disease names

OMIM#	Disease	Tissue	Number of Samples	Repository	
208900	ATAXIA-TELANGIECTASIA; AT	Blood	501+	National Institute of General Medical Sciences (NIGMS) Human Genetic Cell Repository	view
208900	ATAXIA-TELANGIECTASIA; AT	Blood	501+	National Institute of General Medical Sciences (NIGMS) Human Genetic Cell Repository	view
208900	ATAXIA-TELANGIECTASIA; AT	Cell Culture	201-500	American Type Culture Collection (ATCC)	view
208900	ATAXIA-TELANGIECTASIA; AT	Cell Culture	501+	National Institute of General Medical Sciences (NIGMS) Human Genetic Cell Repository	view
208900	ATAXIA-TELANGIECTASIA; AT	Cell Culture	11-50	National Institute of General Medical Sciences (NIGMS) Human Genetic Cell Repository	view
208900	ATAXIA-TELANGIECTASIA; AT	Cell Culture	201-500	NCI CHTN	view
208900	ATAXIA-TELANGIECTASIA; AT	Tissue	201-500	American Type Culture Collection (ATCC)	view
208900	ATAXIA-TELANGIECTASIA; AT	Tissue	501+	National Institute of General Medical Sciences (NIGMS) Human Genetic Cell Repository	view
208900	ATAXIA-TELANGIECTASIA; AT	Tissue	11-50	National Institute of General Medical Sciences (NIGMS) Human Genetic Cell Repository	view
251260	NIJMEGEN BREAKAGE	Blood	201-500	National Institute of General Medical Sciences (NIGMS)	view

RAND ISE: Biospecimen Repository Search: Results

[New search](#)

Show short disease names

OMIM#	Disease	Tissue	Number of Samples	Repository	
208900	ATAXIA-TELANGIECTASIA; AT AT1 LOUIS-BAR SYNDROME AT, COMPLEMENTATION GROUP A, INCLUDED; ATA, INCLUDED AT, COMPLEMENTATION GROUP C, INCLUDED; ATC, INCLUDED AT, COMPLEMENTATION GROUP D, INCLUDED; ATD, INCLUDED AT, COMPLEMENTATION GROUP E, INCLUDED;	Blood	501+	National Institute of General Medical Sciences (NIGMS) Human Genetic Cell Repository	view
208900	ATAXIA-TELANGIECTASIA; AT AT1 LOUIS-BAR SYNDROME AT, COMPLEMENTATION GROUP A, INCLUDED; ATA, INCLUDED AT, COMPLEMENTATION GROUP C, INCLUDED; ATC, INCLUDED AT, COMPLEMENTATION GROUP D, INCLUDED; ATD, INCLUDED AT, COMPLEMENTATION GROUP E, INCLUDED;	Blood	501+	National Institute of General Medical Sciences (NIGMS) Human Genetic Cell Repository	view
208900	ATAXIA-TELANGIECTASIA; AT AT1 LOUIS-BAR SYNDROME AT, COMPLEMENTATION GROUP A, INCLUDED; ATA, INCLUDED AT, COMPLEMENTATION GROUP C, INCLUDED; ATC, INCLUDED AT, COMPLEMENTATION GROUP D, INCLUDED; ATD, INCLUDED	Cell Culture	201-500	American Type Culture Collection (ATCC)	view

RAND ISE: Biospecimen Repository Search: View Details

Repository

National Institute of General Medical Sciences (NIGMS) Human Genetic Cell Repository (housed at Coriell Cell Repositories) ([Show full contact info](#))

(p) 800-752-3805

(f) 856-757-9737

ccr@coriell.org

<http://ccr.coriell.org/nigms/>

Disease

ATAXIA-TELANGIECTASIA; AT

Alternative names

AT1

LOUIS-BAR SYNDROME AT, COMPLEMENTATION GROUP A, INCLUDED; ATA, INCLUDED

AT, COMPLEMENTATION GROUP C, INCLUDED; ATC, INCLUDED

AT, COMPLEMENTATION GROUP D, INCLUDED; ATD, INCLUDED

AT, COMPLEMENTATION GROUP E, INCLUDED;

OMIM Number

[208900](#)

Type of Tissue

Blood

Processing Method

Cell culture

Storage Method

Other

Number of Biospecimens

501+

Type of Informed Consent

Unknown

Price

OMIM - ATAXIA-TELANGIECTASIA; AT - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Copy Paste W

Links RAND Intranet Home Page Online Computing Helpdesk RAND Delivers Objective High-Quality Research and Analysis Customize Links Free Hotmail Windows Media

Address http://www.ncbi.nlm.nih.gov/entrez/dispomim.cgi?id=208900 Go

NCBI

MIM #208900

Text

Description

Clinical Features

Other Features

Inheritance

Diagnosis

Clinical

Management

Cytogenetics

Mapping

Heterogeneity

Molecular Genetics

Pathogenesis

Population Genetics

Animal Model

See Also

References

Contributors

Creation Date

Edit History

Clinical Synopsis

Gene map

Entrez Gene

Nomenclature

RefSeq


GenBank

Protein

UniGene

OMIM

Online Mendelian Inheritance in Man



Johns Hopkins University

All Databases PubMed Nucleotide Protein Genome Structure PMC Taxonomy OMIM

Search OMIM for Go Clear

Limits Preview/Index History Clipboard Details

Display Detailed Show 20 Send to

All: 1 OMIM dbSNP: 0 OMIM UniSTS: 1

#208900

ATAXIA-TELANGIECTASIA; AT

Alternative titles; symbols

AT1

LOUIS-BAR SYNDROME

AT, COMPLEMENTATION GROUP A, INCLUDED; ATA, INCLUDED

AT, COMPLEMENTATION GROUP C, INCLUDED; ATC, INCLUDED

AT, COMPLEMENTATION GROUP D, INCLUDED; ATD, INCLUDED

AT, COMPLEMENTATION GROUP E, INCLUDED; ATE, INCLUDED

ATAXIA-TELANGIECTASIA VARIANT, INCLUDED

Gene map locus 11q22.3

TEXT

A number sign (#) is used with this entry because ataxia telangiectasia is caused by mutation in the ataxia telangiectasia mutated gene

Internet



Human Biospecimen Database

A JOINT PROJECT OF RAND ISE AND THE NIH OFFICE OF RARE DISEASES

Search RAND

Search ISE

RAND ISE: Human Biospecimen Database Search

Search by disease and tissue

Disease (Choose 0 or 1.)

Adenocarcinoma

Rare Diseases

Other Diseases

-- or --

OMIM Number

search

Biospecimen

Cervix
Colorectal
Cord Blood
Ear
Endometrium
Esophagus
Eye
Fallopian Tube
Foreskin
Gall Bladder

Processing Method

-- Select 0 or more. --
Other
Cell culture
DNA
Fixed
Formalin-fixed paraffin-embedded
Fresh
Frozen
OCT
RNA

Storage Method

-- Select 0 or more. --
-20 degrees Celsius Freezer
-80 degrees Celsius Freezer
Frozen in liquid nitrogen
Other
Refrigerated (4 degrees Celsius)
Room temperature

Search by repository

-- Select one only. --

search

Free text search

RAND ISE: Biospecimen Repository Search: Results

Our database has no specimens that match your search criteria.

Please [return to the search page](#) and try a new search or [click here](#) for additional information.

Search tips:

- Try being less-specific with your search term.
- Try selecting fewer criteria. For instance, search for just *disease* instead of *disease* and *tissue*.

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RAND ISE: Biospecimen Repository Search: Specimen Request

To provide information about the type of biospecimen(s) you are searching for or to submit feedback or comments, send an e-mail message using the following form.

Note: *Required fields

*First Name:

*Last Name:

*Your E-mail:

*Disease:

Type of Tissue:

Processing Method:

Storage method:

Number of Biospecimens Required:

Other Questions/Comments:

submit request

reset form

Acknowledgements

RAND

- Ashlee Caul
- Ken Lonsinger
- Neal Sofge

NIH Office of Rare Diseases

- Stephen Groft
- Henrietta Hyatt-Knorr

Biorepositories

- Coriell Institute
- NDRI
- AIDS Cancer Specimen Resource



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