



ISSUE 12 FALL 2015

BioNews

> FOR PARTICIPANTS AND FRIENDS OF THE MAYO CLINIC BIOBANK

Welcome to *BioNews*. It is with great excitement that we announce we have reached 50,000 participants consented in the Mayo Clinic Biobank!



Recruitment will continue to ensure we reach 50,000 who have completed all requirements of enrollment, including providing a blood sample and completing the Biobank questionnaire. Thanks to all of you who have helped us with this amazing accomplishment! Because of you, the Mayo Clinic Biobank is contributing to research with the goal to improve health in many areas.

In this edition of *BioNews*, we answer your questions about access to your research results from the Biobank. Also, we share an inside look into the brand new 2915 Building, home of Mayo Clinic Bioservices. Our Rochester Community Advisory Board members recently toured this

building, getting the chance to see where Biobank samples are stored in a large robotic freezer and to learn what happens to samples once they are collected.

As always, we enjoy hearing from participants of the Mayo Clinic Biobank and encourage you to contact us by phone (866-613-2386) or email (biobank@mayo.edu) if you have a question or comment.

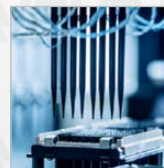
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YOUR QUESTIONS ANSWERED: POLICY ON RETURNING RESEARCH RESULTS TO PARTICIPANTS

What if the Biobank discovers something important about my health?

Some participants have asked about receiving research results from their Biobank sample. Though we spoke with these individuals directly, we thought others may be interested in hearing what the Biobank does if something important is discovered about your health. Here are some common questions about research results in the Biobank and our answers!

Q: Does the Biobank have any research results about me that I can learn?

A: All participants with results available have been contacted directly. While there have been many studies using Biobank samples, most results generated do not meet our criteria for return to participants.

Q: What research results will be returned to participants?

A: The Mayo Clinic Biobank has decided to return research results that **1)** have established and substantial risks for disease; and **2)** may change your medical care (ex: increased clinical screening recommendations, or different treatment options). The decision about whether to return results from a particular study is made by the Biobank Access Committee (the group that oversees the use of the Biobank), after consulting with the appropriate researchers, doctors, bioethicists, and if needed, the Community Advisory Board.

Q: How do I receive my research results?

A: If there are research results that may be important for your health, Biobank staff will contact you to offer these results. If needed, you will speak with a genetic counselor to explain what these results mean and what you should do next. You may always choose **NOT** to learn these results if you do not want them for any reason. Relevant positive and negative results will be returned to participants.

In January 2015, we brought our Return of Results policy to the Rochester Community Advisory Board for discussion and feedback.

The Community Advisory Board felt:

1. The Biobank is “on track” with the draft return of results policy described above
2. The Biobank should explore alternative ways to return research results to participants, allowing the Biobank to expand upon what can be returned to participants

We continue to explore what we return and how we return to the participants. As always, we will keep you updated through future newsletters and our website (biobank.mayo.edu).

In future newsletters, we will continue to address questions asked by our participants, including expansion of our Community Advisory Board. If you have any questions that you would like to see addressed in a future newsletter, please contact us by phone (866-613-2386) or email (biobank@mayo.edu).

MAYO CLINIC BIOBANK 50K TRIVIA

- If all 50,000 signed consent forms for the Mayo Clinic Biobank were unstapled and the (double-sided) pages laid end-to-end (the long way), how long would it extend?
 - About 2000 feet
 - About 1 mile
 - About 21 miles
 - About 52 miles
 - About 83 miles
- If you lined up (end-to-end) the blood tubes collected for our 50,000 Biobank participants, it would span the distance from the Gonda entrance to the St. Marys entrance (~1 mile) how many times?
 - 1 time
 - 8 times
 - 10 times
 - 25 times
 - 50 times
- How many gallons of blood have been collected from the 50,000 Biobank participants?
 - 114 gallons
 - 303 gallons
 - 594 gallons
 - 1013 gallons
 - 1576 gallons
- How many mailing envelopes have been ordered for the Biobank?
 - about 120,000
 - about 160,000
 - about 350,000
 - about 620,000
 - about 700,000
- How many phone calls have been made and/or received (and recorded in the database) on behalf of the Mayo Clinic Biobank?
 - 18,101
 - 20,930
 - 62,545
 - 96,674
 - 157,813
- How many gallons of DNA were frozen and stored for Biobank participants?
 - 13 gallons
 - 16 gallons
 - 21 gallons
 - 29 gallons
 - 63 gallons
- We asked our participants to tell us how much soda they drink each day. If we stacked all the cans of soda the 50,000 participants reported drinking each day, how many times could we reach the height of the Mayo Building (300 feet tall)?
 - 52 times
 - 85 times
 - 94 times
 - 106 times
 - 213 times
- How truthful are participants in reporting their Body Mass Index (BMI)?
 - On average, they report their BMI significantly higher (>2 points above actual)
 - On average they report their BMI slightly higher (within 2 points of actual)
 - On average they report their BMI accurately
 - On average they report their BMI slightly lower (within 2 points of actual)
 - On average, they report their BMI significantly lower (>2 points below actual)

50K Trivia Answers:

1. D, About 52 miles
2. D, 25 times
3. C, 594 gallons
4. E, About 700,000
5. E, 157,813
6. A, 13 gallons
7. B, 85 times
8. D, Slightly lower

BIOBANK SAMPLES MAKE A MOVE TO A NEW LABORATORY BUILDING

Recently, the Rochester Community Advisory Board of the Mayo Clinic Biobank had the opportunity to tour the new, state-of-the-art Biorepository lab facilities. The 2915 Building is approximately 35,000 square feet. Almost half of this area is designated for sample storage. Laboratories, offices, conference areas, and building infrastructure are located within the other half.



Samples being transferred with robotic automation

Two laboratories are housed in this new building: the Biospecimen Accessioning and Processing Core and the Pathology Research Core.

The Biospecimens Accessioning and Processing (BAP) Core labs provide services to **1**) receive and catalogue new blood and tissue samples, **2**) prepare samples for storage, **3**) store samples in large -80° Celsius freezers, and **4**) retrieve and send samples to wherever researchers request.

The Pathology Research Core (PRC) provides tissue-related services, including tissue staining, and digital imaging and analysis for researchers and clinical development.

Prior to moving to the new building, the laboratories were scattered across several buildings in downtown Rochester, MN. The new centralized facility provides numerous advantages, including greater efficiency, increased automation of processes, and increased standardization of procedures and processes, all leading to high-quality material for investigators.

Biobank participants in Minnesota and Wisconsin may have their blood drawn at multiple lab locations, including those in and around Rochester, MN, La Crosse, WI, or Onalaska, WI. Once drawn, they are sent to the 2915 Building to be processed and stored. (Samples from Florida participants are kept at a similar facility in Florida.) The samples are kept in a freezer until a researcher is given permission to access samples for a particular research project. Access is only gained after the Biobank Access Committee has thoroughly reviewed the researcher's project and determined that it is a high-quality project. If approved, a sample is removed from the freezer, and only the amount of sample required for that particular research project will be given to the researcher. The samples donated by you, the Biobank participants, are very highly valued, and therefore, the Mayo Clinic Biobank Access Committee works hard to ensure that the samples are being used to their fullest potential and that no sample is wasted.

2915 Building Fast Facts:

- 35,000 square feet
- 400 -80°C upright freezers
- Robotic freezer with 3.5 million tube capacity
- 15 million tube capacity potential
- 50 employees

Generous Donations Help Support the Biobank and Laboratory Facilities

DAVID F. AND MARGARET T. GROHNE
INVESTING IN EXCELLENCE

Since the early 1900s, Mayo Clinic has used laboratory testing as the foundation for high-quality patient care. To help Mayo build upon this tradition of excellence, Mr. and Mrs. Grohne are philanthropic leaders in the field of bioservices, including biobanking and sample management.

This field involves Mayo Clinic researchers who translate basic biological findings into clinical applications with direct benefit to patients. The fund and repository program that Mr. and Mrs. Grohne support make it possible for Mayo to have centralized resources such as the 2915 Building, strengthening the efficiency and impact of multiple laboratories. The position of director, Biorepositories Program, Center for Individualized Medicine, is named in their honor.

As loyal patients and generous benefactors, Mr. and Mrs. Grohne provide multifaceted support for Mayo's mission. Examples of their generosity include two named research professorships and a fund for novel therapeutics in cancer research; the breast cancer registry; research in neurology, brain tumors and pulmonary disease; as well as programs and facilities for medical care, research and education at Mayo Clinic in Arizona.

Mr. Grohne serves as chair of the board, Independence Tube Corporation, an industry leader in the manufacture of structural steel tubing. Mrs. Grohne, a former teacher, shares his interest in travel and support for many humanitarian causes.



Lab supervisor, Josh Gorman, explains to CAB members how sample tubes are coded with 2D barcodes to be read by the robotic freezer.



Lab Supervisor, Karla Kopp, demonstrates tissue analysis services to CAB members.



Counselor, Erin Winkler, loads sample tubes into the robotic freezer.

UPDATES ON RECRUITMENT STATS

TOTAL PARTICIPANTS

52,722

RESIDENCE

Olmsted County: 14,772

SE MN: 6,156

Rest of MN: 7,631

Iowa: 3,121

Wisconsin: 4,229

Dakotas: 939

Florida: 7,198

Other US: 8,641

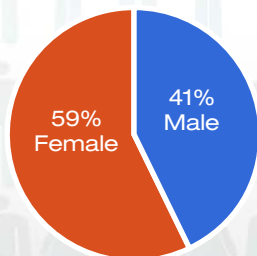
Missing: 35

GENDER

Total: 52,722

Female: 30,980

Male: 21,742



AGE

18-30 3,090

31-40 3,620

41-50 6,065

51-60 11,402

61-70 13,800

71-80 10,970

81+ 3,774



STAY TUNED!

Coming next newsletter – watch for a combined issue of *BioNews* for participants and friends of both the Mayo Clinic Biobank and the Sangre por Salud Biobank. The Sangre por Salud Biobank began 2 years ago and is a collaboration with Mountain Park Health Center and Arizona State University to increase research efforts in the Latino population. This biobank, funded by the Mayo Clinic Center for Individualized Medicine, will support studies in many areas, including obesity, metabolism and diabetes, all areas of special concern in the Latino population.

VISIT US ON THE WEB

mayoresearch.mayo.edu/biobank

As always, if you have any suggestions or feedback on our website, please contact us!



Use your smart device to scan the code to access the website



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If you have questions or need information about the Mayo Clinic Biobank, please contact us at:

507-293-0203 (Minnesota)

904-953-2504 (Florida)

1-866-613-2386 (toll free)

biobank@mayo.edu (e-mail)

mayoresearch.mayo.edu/biobank (web)

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