

A photograph of three people, two women and one man, crouching in a field and examining a large green bush. The background shows a building and some trees. The image has a semi-transparent dark overlay.

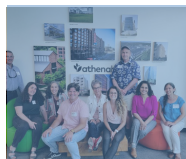
SEEDING LABS ANNUAL REPORT 2023



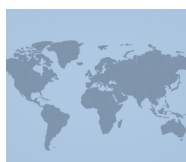
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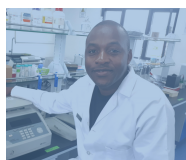
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A NOTE FROM CEO MELISSA P. WU, PHD

You are helping build a more equitable world...

Thank you for being a vital part of our global network of scientific leaders. Together, we are fighting to bring **access to science** to serve the 7 billion people living in developing countries.

In this report, we hope to show you what our community of support has enabled us to do this past year. We fulfilled fifteen shipments and strengthened the **scientific infrastructure** in seven developing countries, putting over 2,000 high-quality instruments in the hands of students and researchers.



But even the most impactful numbers only tell part of the story. So we end our report with the **real-life results** we help deliver, highlighting the stronger workforce, research, and institutions at the heart of what we do together.

I hope that you will read this report knowing that **investing in resources** for science is making an impact around the globe. We couldn't do our work without our supporters, who make everything we do possible.

With gratitude,

A handwritten signature in black ink that reads "Melissa".

Melissa P. Wu, PhD
CEO, Seeding Labs

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ABOUT SEEDING LABS

Who we are

Our mission is to increase access to resources for science in developing countries.

But Seeding Labs is much more than a mission.

We are an award-winning nonprofit that has spent the last 15 years working to overcome a major barrier to global development: **the extreme concentration** of scientific capacity in just a handful of countries.

What we do

We put the tools of modern science into the hands of scientists in developing countries so that they can **teach, learn, innovate, and lead**.

Our flagship program, **Instrumental Access**, does this effectively by sourcing excess equipment in developed countries and using it to build up capacity for teaching and research at university science departments in developing countries.

Our development impact areas



Workforce development: Our programs support effective, hands-on training in the sciences so that graduates can shape a brighter and healthier future for their communities.



Evidence-based solutions: With access to the resources they need, scientists in developing countries can contribute solutions to the problems that matter most to their communities.



Sustainable scientific institutions: Investing in stronger scientific institutions in developing countries is the only way to create progress towards equity that will be sustainable over the long term.

OUR GLOBAL IMPACT

Since 2008, Seeding Labs has provided scientific institutions in developing countries with access to **modern lab equipment and supplies** through our flagship program, Instrumental Access.

Last year, Seeding Labs...



2,029

Shipped 2,029 scientific instruments



27,900

Increased opportunities for skills-based lab training for an estimated 27,900 students

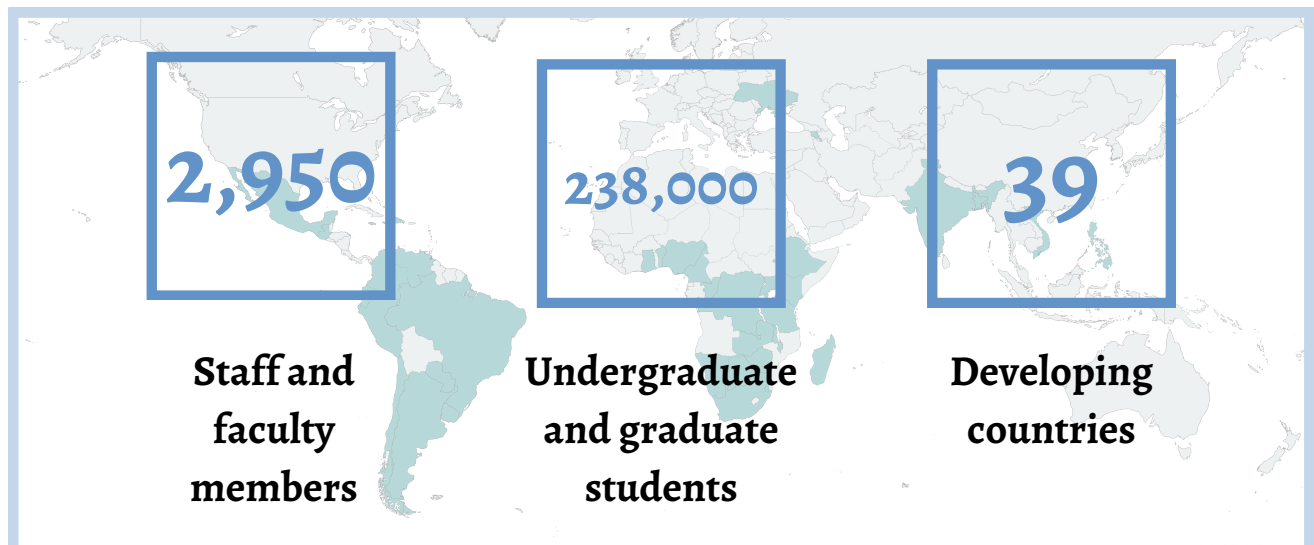


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Strengthened the scientific infrastructure in 7 developing countries

A truly global reach

Since 2008, we have increased access to equipment for



2023 INSTRUMENTAL ACCESS PARTNER INSTITUTIONS



Al-Quds University



Palestine



Autonomous University of the Yucatan



Mexico



University for Development Studies



Ghana



Universite d'Abomey-Calavi



Benin



Phenikaa University



Vietnam



National Livestock Resources Research Institute



Uganda



Instituto Tecnológico de Santo Domingo



Dominican Republic

IMPACT IN ACTION: Workforce training



Gama Bandawe, PhD



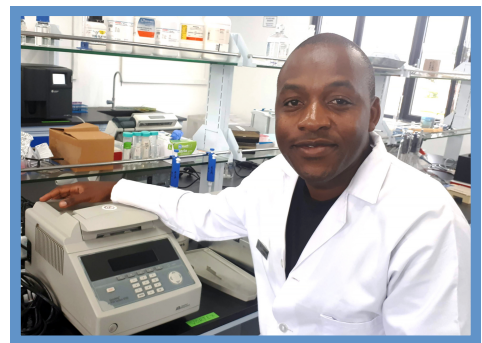
Malawi University of Science and Technology (MUST)



Thyolo, Malawi

Since 2019, MUST has used Instrumental Access equipment to teach the first generation of medical microbiologists trained in Malawi. In 2023, he announced an expansion of the program to train more infectious disease experts.

At the Malawi University of Science and Technology, the medical microbiology unit is rapidly expanding: they started with a foundational undergraduate program and are now training Master's students. You'll find alumni running labs across the country.



But more specialized training is needed to develop **a workforce ready to challenge the diseases** threatening Malawian public health.

This year, Dr. Gama Bandawe announced plans to create a center that **identifies and fights virus-based threats** before they become emergencies. The lab would provide the specialized PhD training needed for virologists to gain the expertise to monitor and study emerging diseases in Malawi.

With an expansion planned, more virologists will be **trained in-country** to understand infections that affect Malawians specifically.

We have worked with Dr. Bandawe intensively since 2017 and could not be happier about his developing plans.

IMPACT IN ACTION: Evidence-based solutions



Force Thema, PhD



Botswana University of Agriculture and Natural Resources



Gaborone, Botswana

In 2023, Dr. Force Thema moved many steps closer to developing a proprietary prebiotic for livestock, allowing animals to absorb more nutrients from their feed and produce more and better-quality beef and milk.

In Botswana, a way of life is being threatened because of something as simple as access to nutritious cow feed. For the many rural subsistence farmers who rely on milk and beef production especially, animal nutrition translates directly to **economic stability**. When farmers can reliably produce milk and beef, they can count on selling those products consistently and making a dependable wage.



Climate change has made accessing nutritious grains more difficult, meaning animal feed does not reliably supply the necessary nutrients for cattle health. **Using equipment from Instrumental Access**, Dr. Thema is developing a proprietary prebiotic for livestock, one that can allow animals to absorb more nutrients from their feed and produce more and better-quality beef and milk.

We are proud to support Dr. Thema with the resources that make this science possible and improve lives throughout Botswana.

IMPACT IN ACTION: Sustainable scientific institutions



Robert Paulino-Ramírez, MD



The Institute for Tropical Medicine and Global Health at Universidad Iberoamericana



Santo Domingo, Dominican Republic

Seeding Labs helped equip the Institute for Tropical Medicine and Global Health in 2017, and we have worked closely with founding director Dr. Robert Paulino since. In 2023, the Institute entered a partnership with Michigan State University to accelerate tuberculosis diagnoses in the Dominican Republic.

Dr. Robert Paulino's vision for creating a powerhouse for global health research could be described as "the sky's the limit." With our shipment of equipment, **the Institute launched at full-speed as has not slowed since.** In its first two years, the Institute tripled the number of faculty investigators, added two additional research units, and published more than 20 research papers. It's provided lab training for undergraduate, medical, and Masters students as well as clinical technicians.



Donations to Seeding Labs have enabled us to **continue providing the Institute with boosts as they charter new paths.** Throughout the years, we have sent additional specialized equipment to accelerate their expansion of research programs and their provision of critical diagnostic services. And at key moments, we have connected the Institute with leading corporations in the life science industries. Together, we are supporting a brighter future in the Dominican Republic by providing resources for science where they are most needed. Together, we are opening the door for **innovation that continues to grow** for years to come.

FINANCIALS

Years ending December 31, 2020, 2021, and 2022

PUBLIC SUPPORT AND REVENUE

	2020	2021	2022
Contributions and grants	\$1,922,489	\$1,998,703	\$4,987,699
Program services	\$472,133	\$897,386	\$721,747
Total public support and revenue	\$2,404,970	\$2,907,900	\$5,710,275

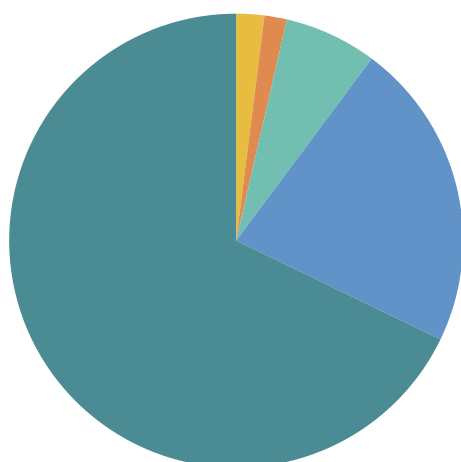
EXPENSES

Program services	\$1,409,757	\$2,059,872	\$2,015,080
General expenses	\$482,578	\$469,037	\$286,725
Fundraising	\$74,814	\$169,320	\$313,402
Total expenses	\$1,967,149	\$2,698,229	\$2,615,207

NET ASSETS

Equipment inventory	\$2,242,660	\$2,287,139	\$4,806,384
Cash, buildings, other	\$812,836	\$978,892	\$1,100,984
Total net assets	\$3,055,496	\$3,266,031	\$5,907,368

Sources of support and revenue, 2022



67.8%

In-kind equipment donations

22%

Corporate and foundation giving

6.6%

University program fees

2%

Government grants

1.6%

Individual giving

OUR SUPPORTERS

Signature partners



Seeding Labs is **proud to partner** with the following organizations that help increase access to resources for science in developing countries:

Abcam	Jeio Tech
Agilent Technologies	Leukemia Therapeutics, LLC
Agilent Technologies Foundation	Manus Bio
Americo Chemical Products Inc.	MarathonLS
Andwin Scientific	Merck & Co. (MSD)
Beckman Coulter Diagnostics	Metaphore Biotechnologies Inc
Cell Signaling Technology	Mettler Toledo LLC
CENTOGENE US	MilliporeSigma
Charles River Laboratories	Myers Solutions LLC
Corning	Neta Scientific Incorporated
Cowles Charitable Trust	Petroglyph Pathology Services, LLC
Cytiva	PolyScience
Danaher Foundation	Public Interest Registry
DSM North America	Sanofi
Each Day Communications	Schlumberger Foundation Inc.
Foley Hoag	Sidley Austin
Harvard University	Takeda Pharmaceutical Company Limited
Heathrow Scientific	Thermo Fisher Scientific
Helmer Scientific	Trouvé Medspa
Houtoff	USAID

Volunteers

We also thank the following dedicated volunteers:

Scott Berk
Anne Rocheleau

Meredith Salisbury
Bill Telford

Robin Watters
Celeste Wilson



www.seedinglabs.org

@SeedingLabs

617-500-3014

Dr. Elena Rosca (center) and students in the Department of Engineering at Ashesi University work to engineer bacteria that can detect the presence of gold.

Photo courtesy of Ashesi University