



**Empowering scientists
Unlocking opportunity
Global impact**



From deserts to mountains

In the harsh deserts of southern Algeria, where the soil is poor and water is scarce, Nadjette studies native, nitrogen-fixing bacteria that help legume crops thrive without expensive, unsustainable chemical fertilizers.

Through GetGenome, Nadjette gained access to the genome sequences of her microbes, enabling her to decode, for the first time, how these bacteria survive heat and drought to help crops thrive.

"LIKE SEEDS CARRIED BY THE WIND, GETGENOME UNITES US ACROSS BORDERS – SO, TOGETHER WE PLANT TODAY TO HARVEST A BETTER TOMORROW."

DR NADJETTE DJEMOUAI, UNIVERSITY OF GHARDAÏA



Top Left: Nadjette holding a cowpea plant collected from Adrar, Algeria.

Top Right: Dr Faiza Baali labelling cowpea plants and soil samples in Timimoun, Algeria.

Left: A new cowpea and cereal cropping field in Taghit, Algeria.

Bottom Left: Nadjette planting cowpea seeds at the experimental station of El Meniaa, Algeria.

Below: Nadjette sampling cowpea roots in Charouine, Algeria.



Solutions to real-world barriers

TALENT IS UNIVERSAL. ACCESS TO GENOMICS IS NOT.

GetGenome helps researchers overcome the practical barriers that limit access to genomics.

Designed by researchers, for researchers, our programmes build confidence and skills in genomics while supporting access to data, training and expertise.

We enable scientists to deposit their data in open repositories, strengthening transparency and reproducibility and connecting researchers across institutions, disciplines and countries.

**"WE NEED TO IMPROVE OUR SKILLS AND BECOME
MORE INDEPENDENT IN GENOMIC ANALYSIS AND
SEQUENCING, BECAUSE IT'S THE FUTURE."**

**DR SAOUSSEN BEN KHEDHER
(HIGH INSTITUTE OF AGRONOMY OF CHOTT MARIEM, TUNISIA)**



Local needs. Local research. Local benefit.

RESEARCHERS SHOULD HAVE THE TOOLS, SKILLS AND AUTONOMY TO LEAD THEIR OWN SCIENTIFIC JOURNEYS.

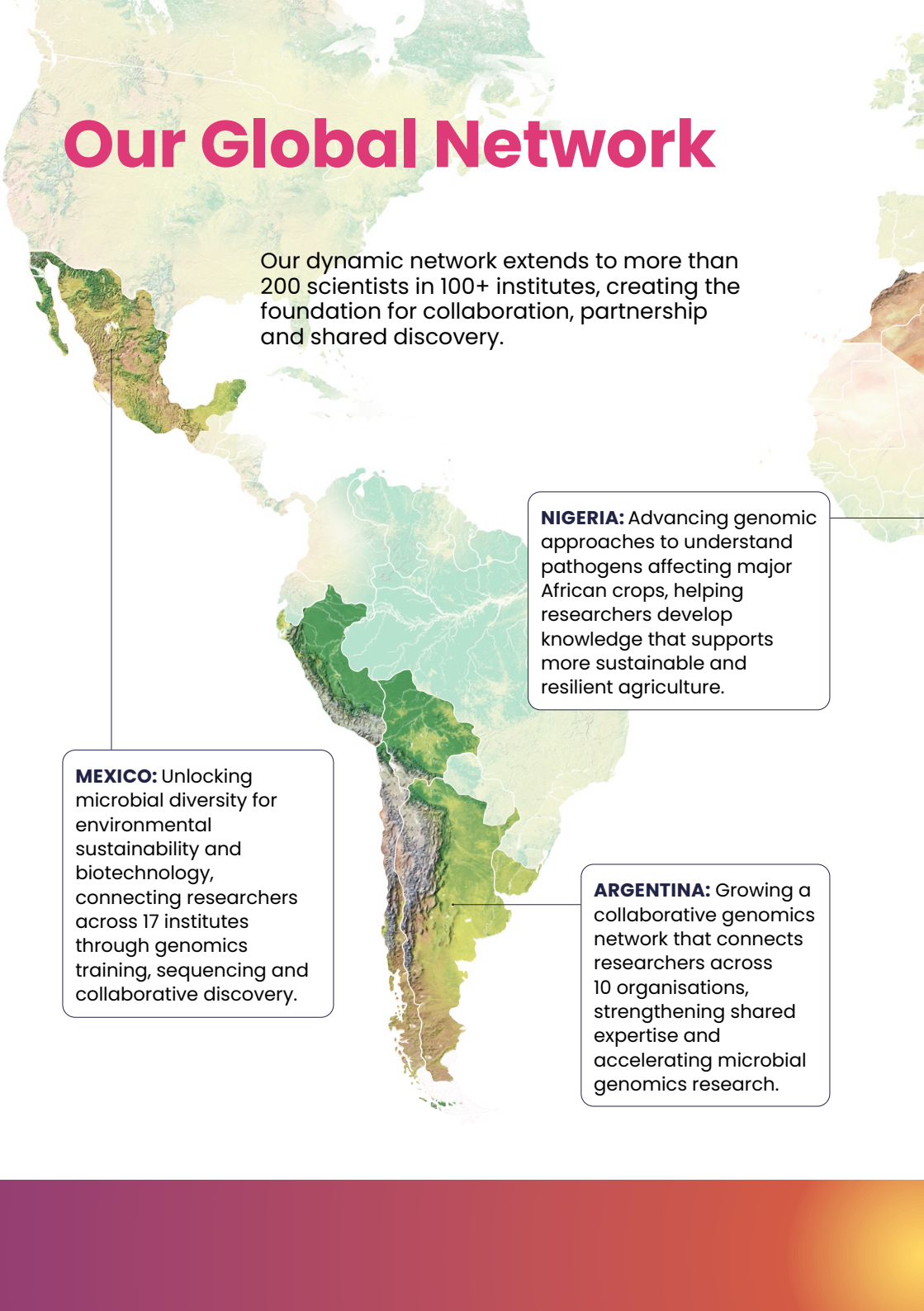
Our role is not to direct research, but to enable it. Scientists define the questions, generate and analyse their own data, and determine how discoveries are translated into impact.

Open science and equitable partnerships make this possible. Through initiatives such as our open Material Transfer Agreement and by supporting more than 50 researcher-led preprints, GetGenome is helping ensure that discoveries are shared globally while leadership, recognition and benefit remain rooted locally.



"TO CONFRONT SOME OF HUMANITY'S GREATEST CHALLENGES, WE NEED TO EMPOWER A NEW GENERATION OF SCIENTISTS FOR SOLUTIONS ROOTED IN LOCAL KNOWLEDGE AND GLOBAL SCIENCE."

PROF. SOPHIEN KAMOUN, GROUP LEADER AT THE SAINSBURY LABORATORY AND GETGENOME TRUSTEE



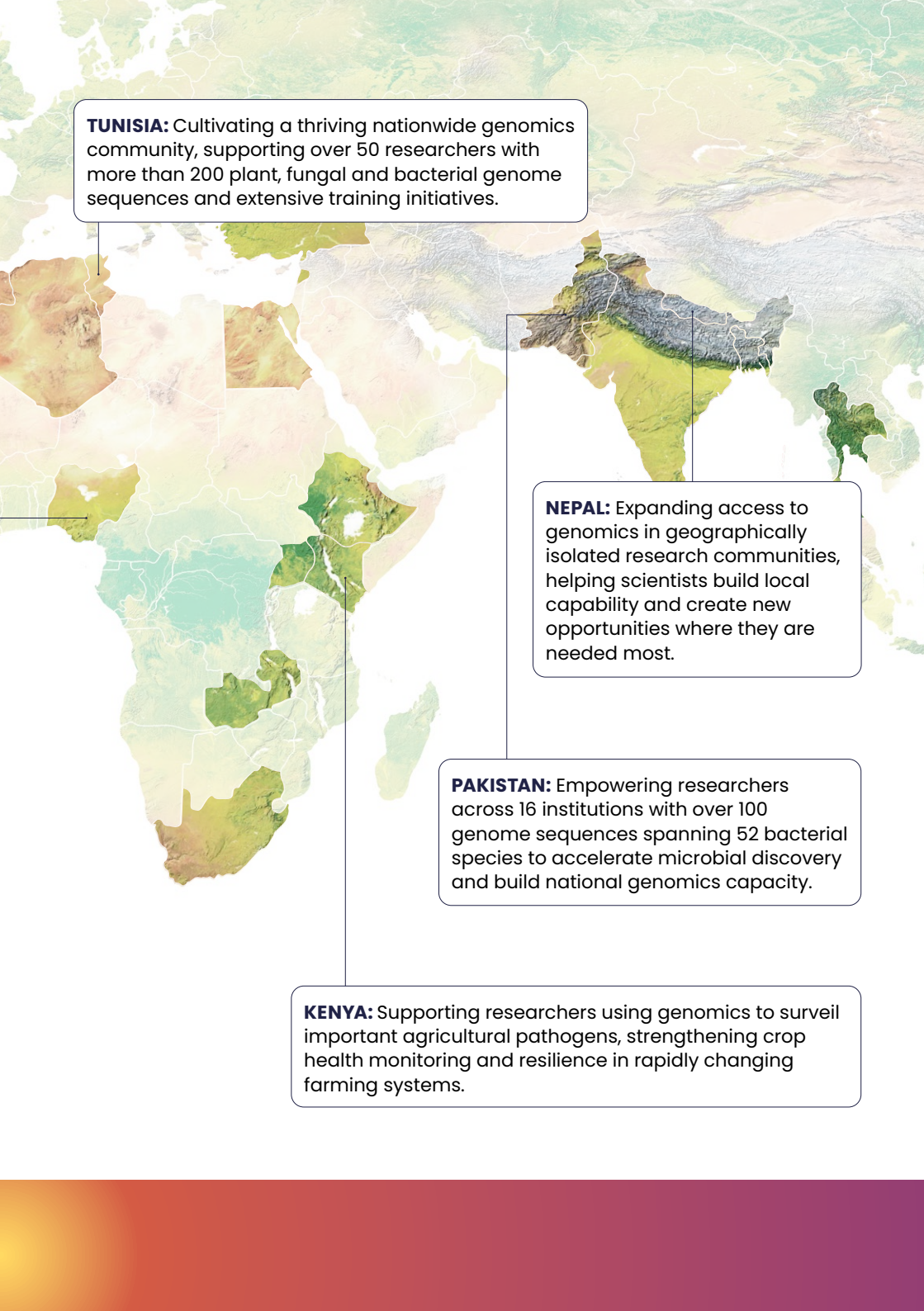
Our Global Network

Our dynamic network extends to more than 200 scientists in 100+ institutes, creating the foundation for collaboration, partnership and shared discovery.

MEXICO: Unlocking microbial diversity for environmental sustainability and biotechnology, connecting researchers across 17 institutes through genomics training, sequencing and collaborative discovery.

NIGERIA: Advancing genomic approaches to understand pathogens affecting major African crops, helping researchers develop knowledge that supports more sustainable and resilient agriculture.

ARGENTINA: Growing a collaborative genomics network that connects researchers across 10 organisations, strengthening shared expertise and accelerating microbial genomics research.



TUNISIA: Cultivating a thriving nationwide genomics community, supporting over 50 researchers with more than 200 plant, fungal and bacterial genome sequences and extensive training initiatives.

NEPAL: Expanding access to genomics in geographically isolated research communities, helping scientists build local capability and create new opportunities where they are needed most.

PAKISTAN: Empowering researchers across 16 institutions with over 100 genome sequences spanning 52 bacterial species to accelerate microbial discovery and build national genomics capacity.

KENYA: Supporting researchers using genomics to surveil important agricultural pathogens, strengthening crop health monitoring and resilience in rapidly changing farming systems.

A landmark genomics milestone



BY SUPPORTING THE PARTNERSHIP BETWEEN THE UNIVERSITY OF SFAX AND THE NATIONAL GENE BANK OF TUNISIA, GETGENOME ENABLED LOCAL RESEARCHERS TO SAFEGUARD THE GENOMIC HERITAGE OF TWO NATIONALLY PRIZED DURUM WHEAT LANDRACES, CREATING OPEN RESOURCES TO ACCELERATE DISCOVERY AND SUPPORT FUTURE CROP INNOVATION.

The heritage varieties, Chili and Mahmoudi, valued for their grain quality, drought tolerance and disease resistance, have been cultivated in Tunisia for generations and represent an important part of the nation's agricultural legacy.

The project established OpenDurumGPT, a researcher-led open science consortium dedicated to sharing genomic resources, accelerating discovery and unlocking the value of Tunisia's durum wheat diversity to support future research, breeding and crop improvement.

"THE GENOMIC DATA WAS RETURNED HOME TO TUNISIA IN PERSON — A POETIC ACT OF SCIENTIFIC REPATRIATION."

OPENDURUMGPT CONSORTIUM



Training for the future

ARTIFICIAL INTELLIGENCE (AI) SHOULD BE A BRIDGE TO SCIENTIFIC OPPORTUNITY, NOT A BARRIER THAT WIDENS EXISTING INEQUALITIES.

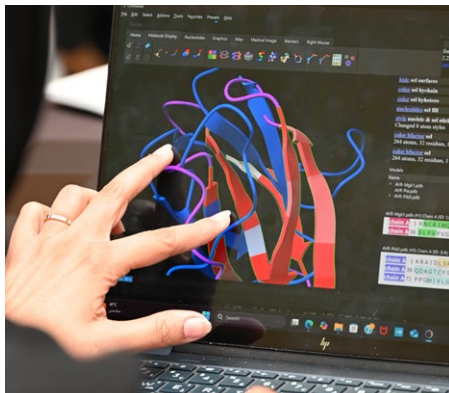
GetGenome prepares scientists for the next generation of genomics research, where AI is becoming an essential tool for analysing and interpreting biological data.

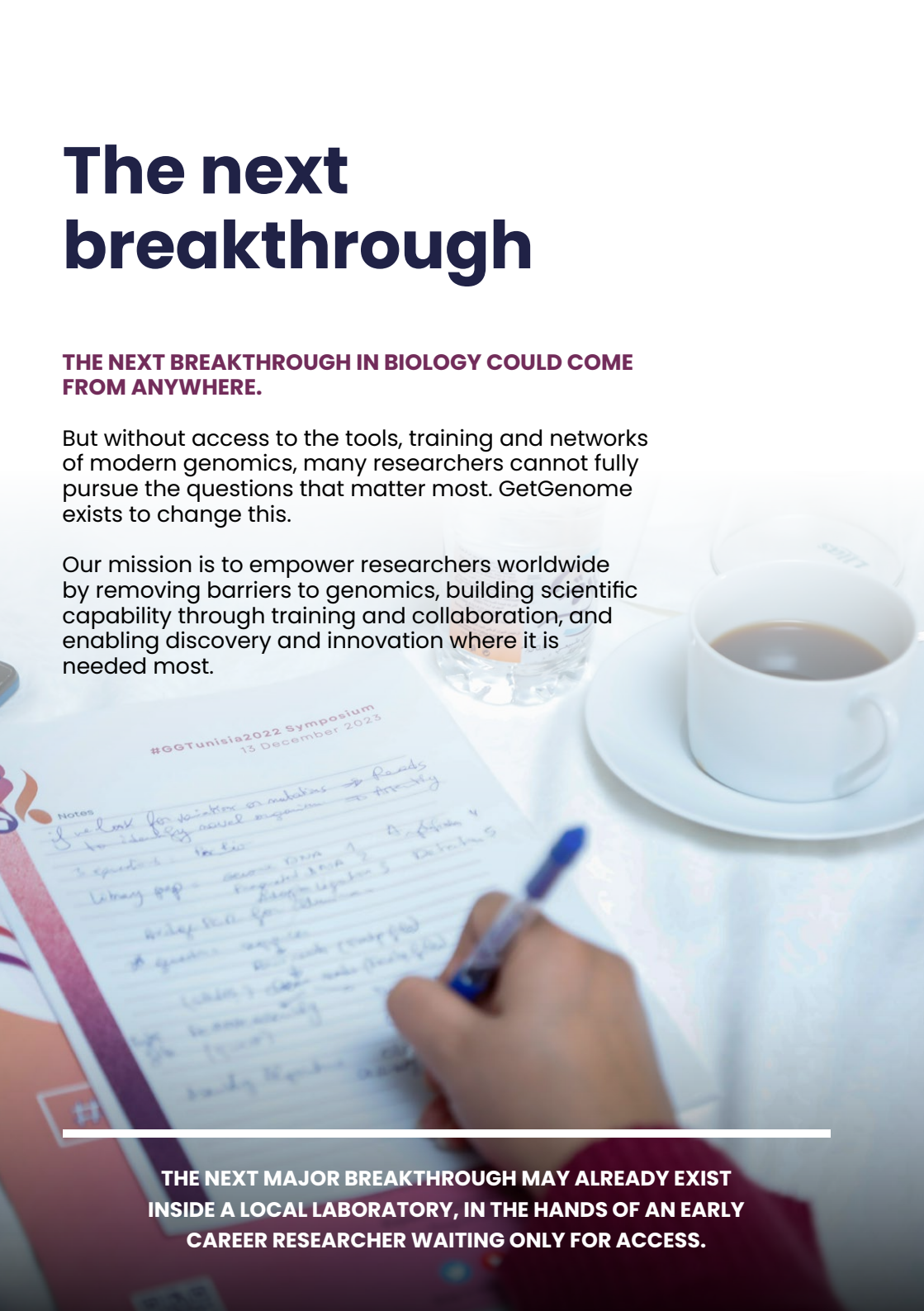
Through practical training workshops, GetGenome helps researchers develop the skills needed to apply AI in genomics, from interpreting complex datasets to exploring the latest advances in protein structure prediction and design.

91%
want more
AI training

#1
barrier is lack of
training & support

*Survey results from the
GetGenome network*



A hand is writing on a notepad with a blue pen. The notepad has a header that reads "#GGTunisia2022 Symposium 13 December 2023". The notes are handwritten and include phrases like "if we look for variants or mutations", "to identify novel organism", "Library prep", "bridge kit", "sequencing", "data analysis", and "bioinformatics". In the background, there is a white cup of coffee on a saucer and a glass of water. The overall scene is set on a white surface, possibly a table.

The next breakthrough

THE NEXT BREAKTHROUGH IN BIOLOGY COULD COME FROM ANYWHERE.

But without access to the tools, training and networks of modern genomics, many researchers cannot fully pursue the questions that matter most. GetGenome exists to change this.

Our mission is to empower researchers worldwide by removing barriers to genomics, building scientific capability through training and collaboration, and enabling discovery and innovation where it is needed most.

THE NEXT MAJOR BREAKTHROUGH MAY ALREADY EXIST INSIDE A LOCAL LABORATORY, IN THE HANDS OF AN EARLY CAREER RESEARCHER WAITING ONLY FOR ACCESS.

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#GGTunisia2022 Symposium
13 December 2023

Notes

Notes

If we look for solution or mistakes → Leads
to identifying causal organism → Analyzing

Experiment 1. ✓
Library prep = genome DNA
sequenced DNA
→ library preparation
bridge PCR for Illumina

2. quality control
DNA seq controlled
(check) clean up (library)
high sequencing accuracy
(100%)

3. daily sequence analysis

**THE NEXT MAJOR BREAKTHROUGH MAY ALREADY EXIST
INSIDE A LOCAL LABORATORY, IN THE HANDS OF AN EARLY
CAREER RESEARCHER WAITING ONLY FOR ACCESS.**



Be part of what comes next

A GLOBAL SCIENTIFIC MOVEMENT IS ALREADY UNDERWAY, BUILT ON EQUITABLE ACCESS, OPEN COLLABORATION AND SHARED DISCOVERY.

How you can get involved:

Support access

Help expand access to genomics tools, training and expertise. GetGenome is a registered charity in England & Wales (1201069) and is HMRC Gift Aid registered.

Build partnerships

Work with us to strengthen local scientific capacity and global collaboration.

Stay connected

Visit getgenome.org and join our mailing list to stay up-to-date by scanning the QR code



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