



*We wish you happy
holidays!*

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Join the Réseau Biotechno and Develop Your Skills in Life Sciences!

By [Victor Kreis](#)

Are you passionate about life sciences and eager to enrich your professional experience while contributing to a dynamic and engaged community? The Biotechno Network welcomes you to take part in exciting projects, develop your skills, and expand your professional horizons!

Why Join the Biotechno Network?

The Biotechno Network is a national community of young talents and professionals united by a shared passion for innovation and life sciences.

- Volunteer in dynamic and supportive teams,
- Participate in meaningful projects with real impact,
- Gain valuable experience in various fields,
- Join a recognized and active national network of volunteers.



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A Variety of Missions for a Unique Experience

By joining the Biotechno Network, you'll have the opportunity to actively contribute to impactful and enriching projects!

Organizing the Biotechno Forums 2025

Take part in organizing the upcoming forums, which will be held in Paris, Marseille, Nantes, and Strasbourg. From logistical management to coordinating sponsors and speakers, as well as communication and event hosting, our forums offer a unique opportunity to contribute to large-scale events.

Newsletter Writing

Help us design and write our monthly national newsletter, a key tool for sharing information, opportunities, and scientific news with our members.

National Webinar Team

Join the team responsible for organizing our thematic webinars. You'll be involved in planning, hosting, and promoting these online events designed to inform and inspire our community.

Community Management Support

Contribute to animating our community on social media and the JOGL platform by sharing relevant content, engaging with members, and ensuring visibility for our activities.

Other Roles Suited to Your Skills

Do you have specific ideas or talents? We are always looking for motivated individuals to bring added value to our network.

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By [Victor Kreis](#)

Who Can Apply?

We are not looking for experts but for curious, motivated people ready to learn by doing. What we offer is a unique opportunity to:

- Develop organizational, writing, and communication skills
- Strengthen your professional network in the biotechnology sector
- Showcase this experience in your job search journey

How to Apply?

Want to join the adventure? Fill out our [application form](#), highlighting your motivations and the missions that interest you. Join us and become part of a community that values learning, collaboration, and innovation!

Flash our QR code to be
part of the adventure!



BIOMEMORY

Revolutionizing Data Storage with DNA Technology

By [Victor Kreis](#)

As the global demand for data storage explodes (the global data storage market is set to reach €370 billion by 2028), [Biomemory](#), a French start-up founded in 2021, is breaking new ground with a new DNA-based data storage solution. Could DNA be the next “hard drive”?

A Visionary Leap into the Future of Data Storage

Biomemory’s mission is to provide a sustainable, ultra-dense, and long-lasting data storage solution. With its capacity to store up to 215 petabytes of data per gram, DNA-based storage promises to revolutionize the field by achieving densities far beyond current technologies while requiring much less natural resources and energy.

The company’s long-term goal is to scale its technology to the exabyte level by 2030, enabling its application in data centers worldwide and making molecular data storage the new backbone of modern digital infrastructure.

The Science of Molecular Data Storage

Biomemory’s DNA Drive technology is built upon groundbreaking advances in synthetic biology, pioneered by two French scientists : Stéphane Lemaire and Pierre Crozet.

Curious to find out more about the science of molecular data storage? Check out this scientific outreach article by the Centre National de la Recherche Scientifique (available in English or in French: [Data storage: the DNA revolution](#)).

Funding the Future

Biomemory's latest funding round underscores the confidence of investors in its revolutionary technology. Led by Crédit Mutuel Innovation, the €17 million round also included contributions from key players such as Bpifrance through its French Tech Seed and Deep Tech 2030 funds, as well as Blast, Paris Business Angels, Sorbonne Venture by Audacia & Aloe Private Equity, Adnexus, Prunay, Next Sequence, and Accelerem. This strong financial backing reflects the market's enthusiasm for Biomemory's groundbreaking DNA Drive technology.

These funds will propel Biomemory's development in several key areas:

1. **Technological Advancements:** Finalizing the development of the first generation of its DNA storage systems optimized through advanced biotechnological processes. This will enable the transition from proof of concept to scalable production.
2. **Industry Partnerships:** Expanding collaborations with cloud providers and industry leaders to accelerate the adoption and integration of Biomemory's solution into existing data storage systems.
3. **Talent Acquisition:** Recruiting top-tier engineers and molecular biologists to enhance the company's R&D capabilities and ensure its leadership in the competitive field of synthetic biology and molecular storage.

Environmental Sustainability at Its Core

DNA as a storage medium is not only dense but also incredibly durable. Unlike conventional hard drives or magnetic tapes, DNA requires no energy for data preservation, remains stable at room temperature, and has the potential to outlast any current storage technology. This makes it an ideal solution for the long-term archiving of massive datasets, from historical archives to scientific data.

This new approach eliminates the need for vast, energy-intensive data centers, and reduces the spatial and carbon footprint of storage systems by orders of magnitude, and provides a lasting solution to the e-waste crisis. Current storage technologies rely on rare earth metals and other non-renewable materials, while DNA, as a biosynthesized material, is infinitely renewable!

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The Power of DNA Storage: A Game-Changer

By engineering biocompatible and bio-secure long DNA fragments, Biomemory converts biomass into digital information.

Furthermore, the company is actively working to slash the costs of DNA synthesis. Their goal is to achieve a storage cost of \$1 per terabyte, instead of \$1 per kilobyte for current DNA synthesis methods. This will render DNA storage affordable for a wide range of industries.



Looking Ahead

With cutting-edge technology and strong financial backing, Biomemory stands to redefine the data storage industry. The company's progress shows what can be achieved when we combine biology with digital technology! As it scales its operations and builds partnerships, Biomemory's DNA Drive technology could soon become the gold standard for data storage worldwide.

Furthermore, Biomemory's roadmap includes plans to expand its offerings beyond large-scale data centers. By exploring applications in personal data storage, archival preservation, and even space exploration, the company positions itself as a versatile and innovative leader in the data storage revolution. The future of data is being written in DNA, and Biomemory is leading the way!

The **REAL** section (for **Read** – Analyze – Listen) highlights our recommendations of the month.



What you can **READ** this month ?

- ***Mistakes were made: My Experience of Adult ADHD***, by Brian Spurlock for *Voices of Academia*
Read Brian's refreshingly honest first account experience of being a scientist with ADHD, and the challenges and solutions he found along the way! Find the article [here](#).
- ***Retour sur le PhDTalent Career Fair***, by Association Bernard Grégory
Didn't make it to this year's PhDTalent Career Fair in Paris? Check out ABG's summary of the event as well as the replay of their roundtable! This article is in French, find it [here](#).



What you can **ANALYZE** this month ?

- ***2024, Research in Review***. By Nature Biotechnology
Nature Biotechnology editors pick and summarize their favorite research from 2024. Gain inspiration and read about the latest advances and hot topics in biotechnology research [here](#)!



What you can **LISTEN** to this month ?

- ***Biotech Career Coach Podcast***, by Yale University
Part of Yale University's "The Collaboratory Career Hub", this podcast gives helpful career insights for the life science industry. Find it [here](#)!


Dec
19th
Afterwork with PhD Talent and Réseau Biotechno
When: Thursday, 19th of December at 18h30

Where: Bar “Le Piano Vache”, Paris

Want to meet other PhD students and PhDs? Every last Thursday of the month, PhD Talent and the Réseau Biotechno partner for an afterwork! The first drink is on PhD Talent! Registration is free but required, sign up [here](#).

PhDTalent 
X

Dec
9-20th
Festival de la santé mondiale
When: 9th to 20th of December

Where: Lyon and online

This festival, in partnership with the World Health Organization, promotes the concept of “One Health” for the benefit of all. It will bring together citizens, health professionals, R&D teams, and the local health ecosystem in Lyon. Over fifty events will be held, some online. Find out more [here](#).



*The Réseau BioTechno family wishes
you a wonderful end-of-year holiday!*

