



NEWSLETTER

MARINE
MICROBIOME

EXPLORING THE MICROSCOPIC STEWARDS OF OUR OCEANS

Welcome to the June 2025 edition of Marine Microbiome Newsletter

This month, we delve into groundbreaking discoveries in marine microbial diversity, explore the intricate relationships between climate change and microbial functions, and highlight upcoming events shaping the future of microbiome science.



For registration and agenda:

<https://www.inrae.fr/en/events/one-health-world-microbiome-partnership-summit>

Special Feature: One Health World Microbiome Partnership Summit Kickoff

On Friday, June 20, 2025, the World Microbiome Partnership (WMP) launches its formal kickoff event in Paris—the first One Health World Microbiome Partnership Summit. Taking place at the prestigious Académie Nationale de Médecine, this hybrid (in-person + online) summit will:

- Bring relevant actors from across the world together to discuss microbiome research, innovation, and its role in improving planetary health.
- Unveil the WMP structure and roadmap for integrating microbiome science across human, animal, plant, environmental, and climate policies through a One Health framework.
- Host strategic talks by global thought leaders including Rob Knight (UCSD), Joël Doré (INRAE), George Fu Gao (CAS), Lita Proctor (WMP), Karine Clément (Sorbonne), Thanawat Tiensin (FAO), Chadia Wannous (WOAH), and two core team members of our Marine Microbiome Forum, Alice Ortmann (DFO) and Stéphane Pesant (EMBL-SBI).
- Feature thematic working groups to establish short- and mid-term priorities across diverse topics such as health, technology, food systems, and climate.

This kickoff sets the stage for a global agenda leveraging microbiome research to inform cross-sectoral health, environmental, and climate strategies, highlighting the vital role of microbes in holistic planetary health.

Seats in Paris are limited, but the hybrid format ensures global access. A replay will be available for those in other time zones.

World Microbiome Day — June 27

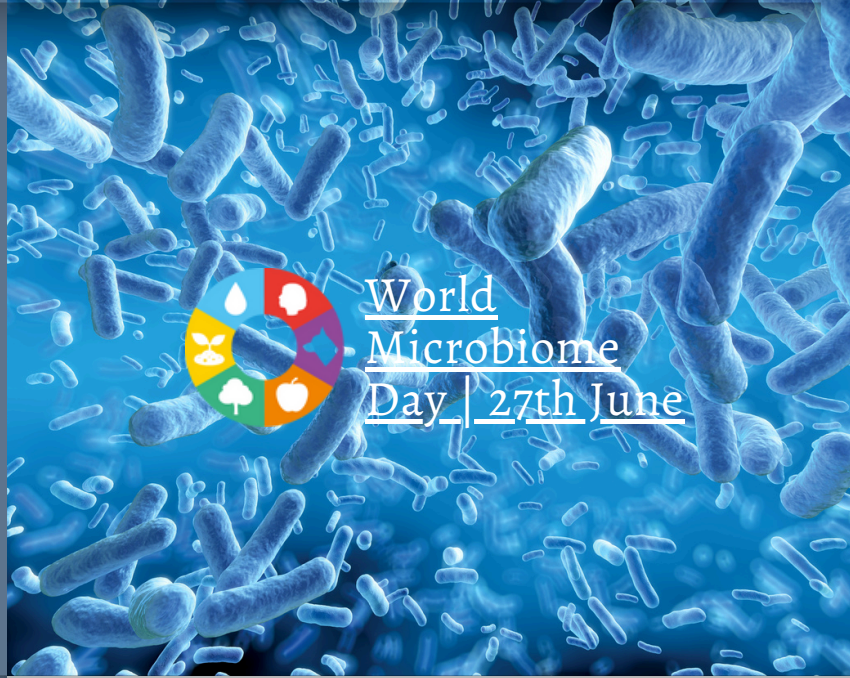
Theme for 2025: “ Microbiome 101 — What You Need to Know”

“This year, we’re simplifying the science, focusing on raising awareness, and providing clear, accessible information about microbiomes. Join us to learn how these tiny organisms impact our health, environment, and daily lives”. ([WMD](#))

Our Website Highlights for June 27:

The website will be dedicated to the WMD by:

- Homepage Takeover
- Featured Story: “Microscopic Giants: How Marine Microbiomes Shape Our Planet”
- “Meet a Microbe” Mini-Series and an interactive quiz.
- Social media toolkit



World
Microbiome
Day | 27th June

Research Highlights

1. Climate-Driven Changes in Marine Microbiome Functions

Seasonal and El Niño-related warming significantly impact nutrient stress levels, carbon degradation, and biomass ratios in coastal microbial communities.

Read more: <https://www.nature.com/articles/s41467-025-59382-1>

2. Discovery of 23 New Marine Bacteria

Species Researchers in Blanes Bay discovered 23 novel marine bacterial species, expanding our understanding of oceanic microbial diversity and nutrient cycling.

Read more: <https://www.earth.com/news/23-new-marine-bacteria-species-discovered-that-influence-global-ocean-cycles/>

3. Genomic Islands in SAR11 Bacteria

Tiny genomic islands in SAR11 help these abundant marine microbes adapt to diverse environments, playing a vital role in ocean ecosystems.

Read more: <https://microbiomejournal.biomedcentral.com/articles/10.1186/s40168-025-02037-6>

Spotlight On: MVIF.39 — The Nagoya Protocol & Microbial Diversity

MVIF.39 (May 5-7, 2025) focused on protecting microbial diversity under the Nagoya Protocol and addressing equitable benefit-sharing challenges.

Event page: <https://www.microbiome-vif.org/en-us/-/past-events/mvif39-i-5-67-may-2025>

News & Announcements

- [UN Ocean Conference 2025](#): Climate, pollution, and marine protection was held in June 9-13 in Nice, France. Information and resolution - [here](#)
- MGnify Genomes Marine Catalogue v2.0: Newly released catalogue includes data from 1,628 studies and is available on [MarineMicrobiome.org](#).

Data Dive:

Functional Genomics in Marine Microbiome Research
A recent review explores how functional genomics advances understanding of microbial roles in marine ecosystems.

[Read more here](#)

Upcoming Events

All events

19-23
June



ASM Microbe 2025

The latest ASM Microcosm issue - [here](#)

More Info

20
June



One Health World Microbiome Partnership Summit

More Info

27
June



"Microbiome 101: What You Need to Know"

More Info

Stay Connected

We welcome your stories, findings, or announcements for upcoming editions.

