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PRESS RELEASE



Unlocking Clean Water Goals for 2026 with Bioaugmentation

The safety of drinking water and sanitation systems has a direct impact on human health. While many societies enjoy incredibly high water and sanitation quality, approximately 40% of the world's recognized countries [have an EPI \(Environmental Performance Index\) score of less than 50](#) (out of 100). As societies look for answers to these problems, [Bionetix® International](#) invites key players everywhere to consider the important role of bioaugmentation in



achieving water quality goals.

Wastewater and Water Quality: An Important Link

Wastewater released to the environment without proper treatment can negatively impact the quality of water sources (e.g., lakes and rivers) that supply drinking water. Furthermore, temporary camps for military personnel, mining operations, or humanitarian aid may depend on wastewater reclamation to support hundreds of people onsite, making quality wastewater treatment critical.



Whether as simple as a lagoon system or as complex as a sequencing batch reactor (SBR), wastewater treatment cannot happen without the presence of beneficial microorganisms (e.g., heterotrophic degraders, nitrifying bacteria, facultative denitrifiers, and hydrolytic consortia) that transform pollutants into stable end products such as carbon

dioxide, nitrogen gas, water, and microbial biomass. Biological performance depends on retention time, oxygen availability, and other factors that may vary from system to system. Unfortunately, challenges like BOD (biochemical oxygen demand) overloads, excessive foaming, sludge buildup, or slow system startup indicate that existing microorganisms cannot handle the load. That is where bioaugmentation, the addition of beneficial microorganisms that degrade waste, helps keep the system in balance.

Balancing Wastewater Overloads with ‘Bugs’

Different microbial blends are suited to different wastewater challenges. In developing countries or remote locations where a new wastewater treatment system needs a quick startup, BCP35™ or [BCP50™](#) can be used to rapidly seed or populate the system with billions of beneficial bacteria to support a wide range of waste degradation. Existing systems with sludge overloads may see a dramatic drop in pumping costs with the regular addition of [BIOBOOSTER SR™](#) to digest the sludge at the bottom of the lagoon. If ammonia levels are high, the microorganisms of [BCP655™](#) can consume the excess. A variety of other bioaugmentation blends make it possible to tailor these and other solutions to specific problems.



Bring Water Quality Within Reach Around the Globe

Many nations around the globe still need cleaner drinking water and better sanitation. Bioaugmentation helps bring these goals in reach by enabling facilities to release cleaner



wastewater to the ecosystem from which societies draw and filter potable water. Given the outstanding benefits of biological wastewater treatment, decision makers involved in advancing water quality around the globe owe it to themselves to consider the role of bioaugmentation in their water quality enhancement plan. [Contact Bionetix® for further assistance in making the most of bioaugmentation to unlock clean water and sanitation goals for 2026.](#)

Keywords: *global water crisis, safe drinking water, scalable sanitation technology, clean water access, bioaugmentation, water quality improvement, sustainable water management, Bionetix, water equity, international sanitation initiatives*

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