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All the data collected and analyzed in this article are available in Source Data Files 1, 2, 3.

Source Data File 1 is the list of genomes that were screened for aminoglycoside resistance genes, with their assignation to the bac120 taxonomy, and eventual sampling dates, sampling locations, and sampling ecologies when available.

Source Data File 2 is the list of aminoglycoside resistance genes that were detected, with their coordinates in the genomes, their eventual associations to mobile genetic elements, and their resistance profiles when they could be inferred.

Source Data File 3 is the list of screened aminoglycoside resistance genes with the number of screened genes per year, region, and biome.

Source Data File 4 is the list of accession numbers for aminoglycoside-modifying enzymes that were used to build HMM profiles and screen genomes.