## The draft genome of a hydrogen-producing cyanobacterium, Arthrospira platensis NIES-46

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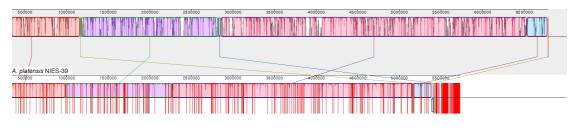
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## Figure S1. Mauve alignment of the NIES-46 and NIES-39 genomes.

ProgressiveMauve was performed with the default options using the NIES-39 genome as a reference. The NIES-39 (above) and NIES-46 (below) genomes are shown. Corresponding colinear blocks are linked by lines. The red vertical bars in the NIES-46 genome indicate the contigs.



A. platensis NIES-46

## Figure S2. Gene content of the clade A Arthrospira species.

The functional categories are based on COG classification. The heatmaps represent the number of genes.

	[D] Cell cycle control, cell division, chromosome partitioning
	[M] Cell wall/membrane/envelope biogenesis
	[N] Cell motility
	[O] Post-translational modification, protein turnover, and chaperones
	[T] Signal transduction mechanisms
	[U] Intracellular trafficking, secretion, and vesicular transport
	[V] Defense mechanisms
	[W] Extracellular structures
	[Z] Cytoskeleton
	[A] RNA processing and modification
	[B] Chromatin structure and dynamics
	[J] Translation, ribosomal structure and biogenesis
	[K] Transcription
	[L] Replication, recombination and repair
	[C] Energy production and conversion
	[E] Amino acid transport and metabolism
	[F] Nucleotide transport and metabolism
	[G] Carbohydrate transport and metabolism
	[H] Coenzyme transport and metabolism
	[I] Lipid transport and metabolism
	[P] Inorganic ion transport and metabolism
	[Q] Secondary metabolites biosynthesis, transport, and catabolism
NIES-46 NIES-39 Paraca YZ	0 100 200 300 400

0 100 200 300 400 Number of genes