

**Effects of Genic Base Composition on Growth Rate in G+C-rich Genomes**

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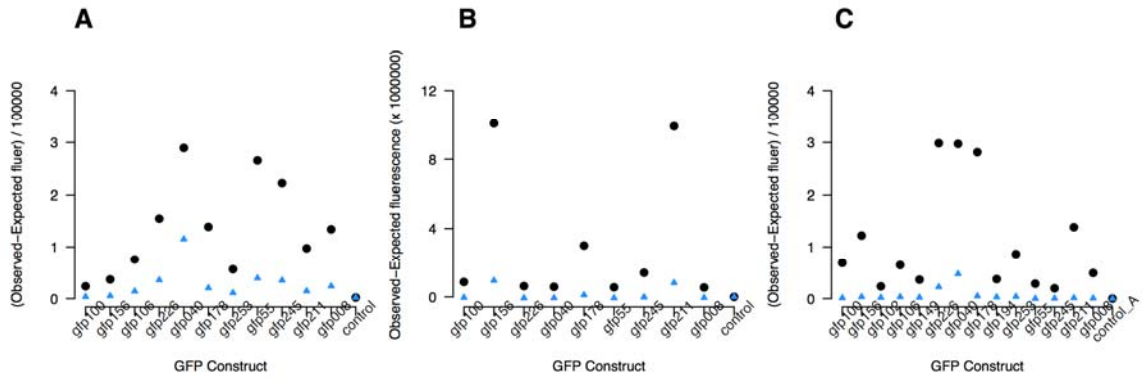
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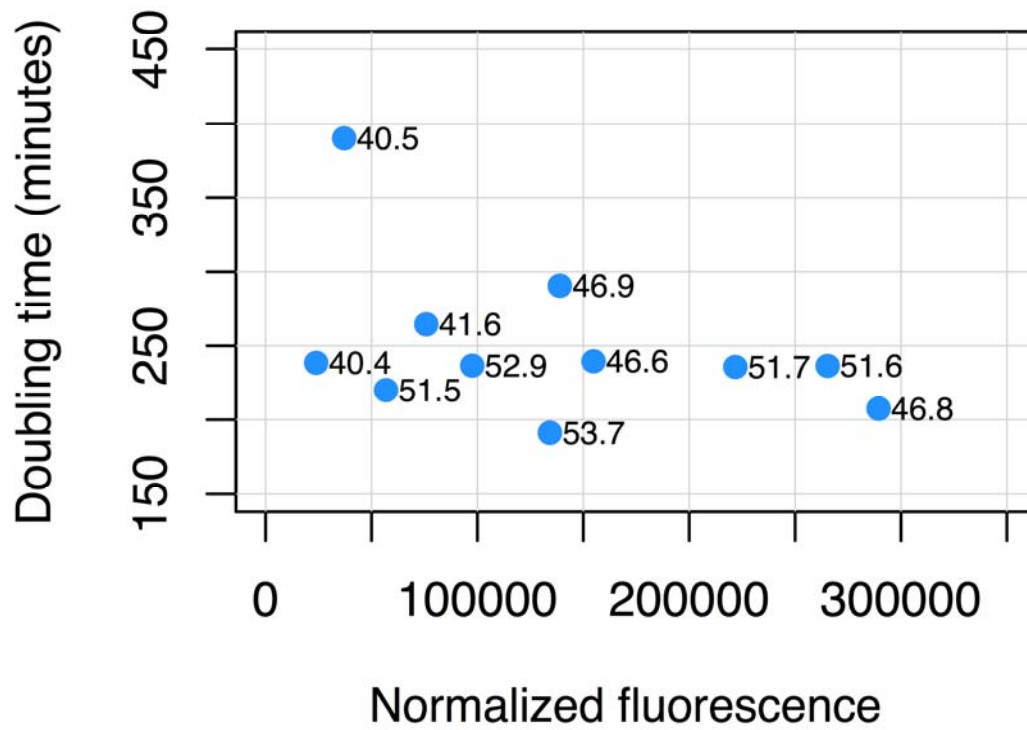
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**Figure S1** Difference in normalized fluorescence between induced (black circles) and non-induced (blue triangles) cultures of: **(A)** *Caulobacter crescentus*, **(B)** *Pseudomonas aeruginosa*, and **(C)** *Escherichia coli*. Non-induced strains of *C. crescentus* produce greater fluorescence in relation to non-induced strains of *E. coli* and *P. aeruginosa*. Values for *E. coli* were obtained from R. Raghavan, Kelkar YD, Ochman H. 2012. Proc. Natl. Acad. Sci. USA **109**:14504–14507.



**Figure S2** Relationship between GFP production and doubling time in *C. crescentus* strains expressing GFP gene-variants of different base composition at synonymous sites. (Normalized fluorescence of bacterial cultures used as a proxy for GFP expression.) Numbers next to plotted points denote the base composition (G+C%) of the corresponding GFP variant.

**Table S1 Primer sequences and their applications**

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To amplify GFP gene for insertion into:	Primer Name	Sequence (5' ... 3')
pNW33N	Bpu10I-gfp1	CGACTGGATCCGCTTAGGAGATATAACCATGGTCAG
	Bpu10I-gfp2	CGACTGGATCCGCTTAGGAGATATAACCATGGTTAG
	Bpu10I-gfp3	CGACTGGATCCGCTTAGGAGATATAACCATGGTGAG
	Bpu10I-gfp6	CGACTGGATCCGCTTAGGAGATATAACCATGGTAAG
	BstZ17I- common2	CCTTTCAGCAGTATACCCCTCAAGACCCGTTTAG
pBXMCS-2	Apa1_pet15_F	CAATTCAGTCGACTGGGGCCCAGGAGAGATATAACCATGG
	EcoR1_pet15_R	CTCCTTTCAGCGAATTCCCCCTCAAGACCCGTTTAG

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**Tables S2-S3**

Available for download as Excel files at [www.g3journal.org/lookup/suppl/doi:10.1534/g3.115.016824/-/DC1](http://www.g3journal.org/lookup/suppl/doi:10.1534/g3.115.016824/-/DC1)

**Table S2** Fluorescence and absorbance readings of induced and uninduced cultures of *Caulobacter crescentus*.

**Table S3** Fluorescence and absorbance readings of induced and uninduced cultures of *Pseudomonas aeruginosa*.