

***Acidithiobacillus ferriphilus* sp. nov.: a facultatively anaerobic iron- and sulfur-metabolising extreme
acidophile**

Carmen Falagán and D. Barrie Johnson*

Published in: *International Journal of Systematic and Evolutionary Microbiology*

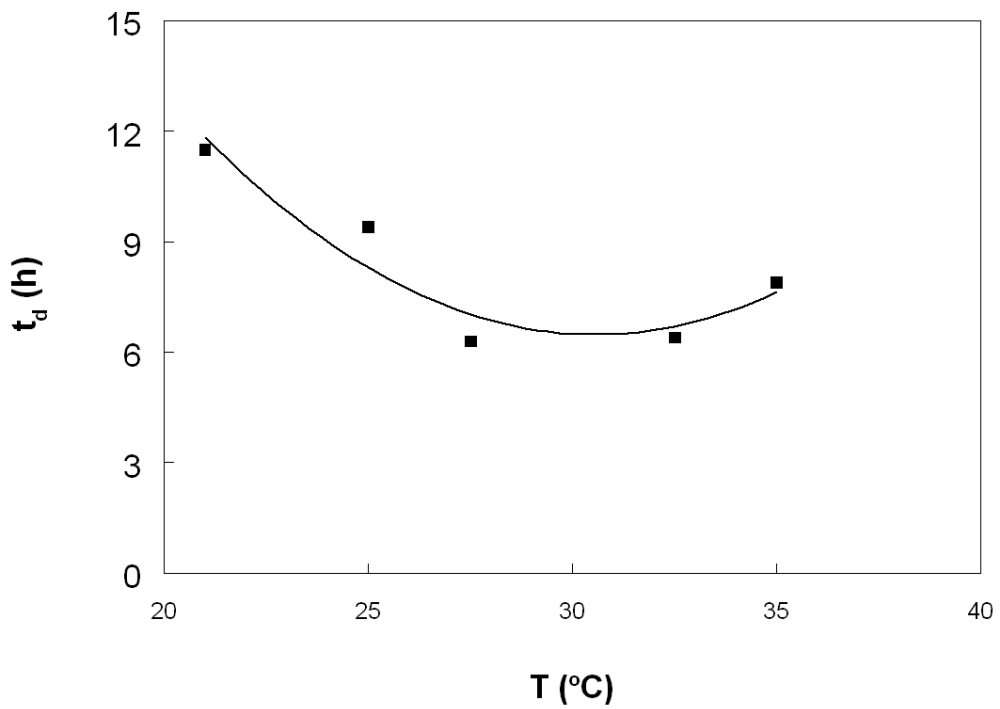
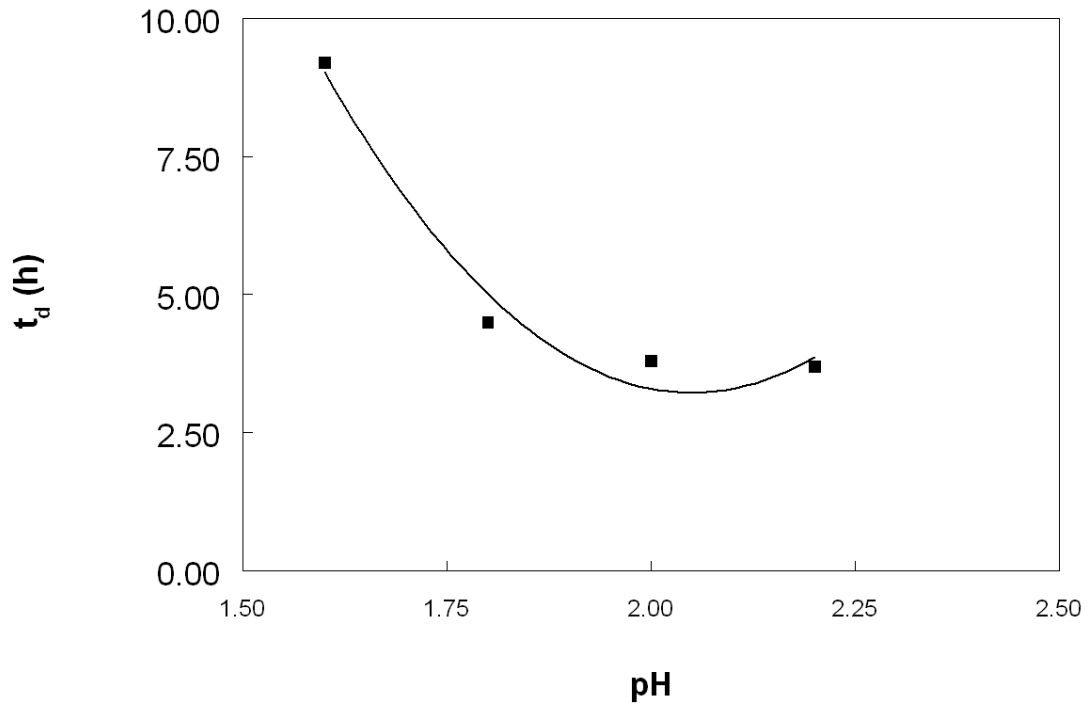
*corresponding author: School of Biological Sciences, College of Natural Sciences, Bangor University, Bangor,
LL57 2UW, U.K.; e-mail d.b.johnson@bangor.ac.uk

Supplementary files

Supplementary Table 1. Physiological characteristics of strains of *A. ferriphilus*

Strain	Oxidation of				Reduction of	Growth on			Growth at					
	Fe(II)	FeS ₂	S ⁰	S ₄ O ₆		Fe(III)	H ₂	YE	Glycerol	5°C	10°C	33°C	35°C	pH 1.25
M20 ^T	+	+	+	+	+	-	-	-	+	+	+	-	-	+
JCM 7812	+	+	+	+	+	-	-	-	-	+	+	-	-	-
Malay	+	+	+	+	+	-	-	-	+	+	+	-	-	+
Riv13	+	+	+	+	+	-	-	-	-	+	+	-	-	+
ST2	+	+	+	+	+	-	-	-	+	+	+	-	-	+
PS102	+	+	+	+	+	-	-	-	-	±	+	-	-	+
PS104	+	+	+	+	+	-	-	-	-	±	+	+	- (+ at pH 1.35)	+
PS107	+	+	+	+	+	-	-	-	-	±	-	-	-	+
KCT10	+	+	+	+	+	-	-	-	-	±	±	-	-	+
KCT14	+	+	+	+	+	-	-	-	-	+	-	-	-	-
KCT17	+	+	+	+	+	-	-	-	-	±	-	-	-	+

Growth was assessed by monitoring cell numbers, and oxidation/reduction of iron or acid-production (sulfur cultures)



Supplementary Fig. 1. The effect of (top) pH, and (bottom) temperature on mean generation times (t_d) of strain M20^T. Each data point represents a t_d value obtained from a series of data obtained for each condition used