

S1 (table)

This supplementary information includes the data and corresponding citations presented in Box 1 Figure for the proportion of inactive cells in different systems.

Active cells were assessed using general eubacterial FISH (fluorescent *in situ* hybridization) probes or through the uptake and incorporation of CTC (5-cyano-2,3-ditolyl tetrazolium chloride). The total number of cells was determined using DAPI staining. The proportion of inactive cells was estimated as $[1 - (\text{active cell count} / \text{total cell count})]$.

System	Method	Percent Inactive
Activated sludge ¹	CTC	60
Activated sludge ²	FISH	11
Activated sludge ³	FISH	30
Activated sludge ⁴	FISH	38
Activated sludge ⁵	FISH	20
Human feces ⁶	FISH	30
Human feces ⁷	FISH	23
Human feces ⁸	FISH	3
Human feces ⁹	FISH	32
Lake ¹⁰	FISH	49
Lake ¹⁰	FISH	54
Lake ¹⁰	FISH	39
Lake ¹⁰	FISH	54
Lake ¹⁰	FISH	54
Lake ¹⁰	FISH	54
Lake ¹⁰	FISH	51
Lake ¹⁰	FISH	41
Lake ¹⁰	FISH	39
Lake ¹⁰	FISH	56
Lake ¹⁰	FISH	45
Lake ¹⁰	FISH	57
Lake ¹⁰	FISH	51
Lake ¹⁰	FISH	47
Lake ¹⁰	FISH	41
Lake ¹¹	FISH	23
Lake ¹¹	FISH	42
Lake ¹¹	FISH	37
Lake ¹¹	FISH	47
Lake ¹¹	FISH	39
Lake ¹¹	FISH	50
Lake ¹¹	FISH	57

Lake ¹¹	FISH	58
Lake ¹¹	FISH	50
Lake ¹¹	FISH	52
Lake ¹¹	FISH	39
Lake ¹¹	FISH	36
Lake ¹¹	FISH	23
Lake ¹¹	FISH	18
Lake ¹¹	FISH	55
Lake ¹¹	FISH	43
Lake ¹¹	FISH	48
Lake ¹¹	FISH	41
Lake ¹¹	FISH	60
Lake ¹¹	FISH	56
Lake ¹¹	FISH	56
Lake ¹¹	FISH	47
Lake ¹¹	FISH	56
Lake ¹¹	FISH	51
Lake ¹¹	FISH	35
Lake ¹¹	FISH	30
Lake ¹¹	FISH	22
Lake ¹¹	FISH	37
Lake ¹¹	FISH	45
Lake ¹¹	FISH	57
Lake ¹¹	FISH	42
Lake ¹¹	FISH	64
Lake ¹¹	FISH	74
Lake ¹¹	FISH	56
Lake ¹¹	FISH	41
Lake ¹¹	FISH	57
Lake ¹¹	FISH	35
Lake ¹¹	FISH	36
Lake ¹¹	FISH	41
Marine ¹²	FISH	74
Marine ¹⁰	FISH	58
Marine ¹⁰	FISH	4
Marine ¹⁰	FISH	15
Marine ¹⁰	FISH	43
Marine ¹⁰	FISH	39
Marine ¹⁰	FISH	28
Marine ¹³	FISH	12
Marine ¹³	FISH	28
Marine ¹³	FISH	45
Marine ¹³	FISH	12
Marine ¹³	FISH	20
Marine ¹³	FISH	35
Marine ¹³	FISH	20
Marine ¹³	FISH	19
Marine ¹³	FISH	30

Marine ¹³	FISH	12
Marine ¹³	FISH	15
Marine ¹⁴	FISH	30
Marine ¹⁴	FISH	25
Marine ¹⁴	FISH	38
Marine ¹⁴	FISH	78
Marine ¹⁴	FISH	22
Marine ¹⁴	FISH	47
Marine ¹⁴	FISH	64
Marine ¹⁰	FISH	28
Marine ¹⁰	FISH	36
Marine ¹⁰	FISH	38
Marine ¹⁰	FISH	34
Marine ¹⁰	FISH	61
Marine ¹⁵	FISH	41.1
Marine ¹⁵	FISH	28.6
Marine ¹⁵	FISH	39.7
Marine ¹⁵	FISH	68.8
Soil ¹⁶	CTC	96
Soil ¹⁷	CTC	72
Soil ¹⁸	CTC	75
Soil ¹⁹	CTC	96
Soil ²⁰	FISH	95
Soil ²¹	FISH	61

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