

**S2 Table. Bacterial isolates obtained from samples of jellyfish exumbrella (AK) and mucus from gastral cavity (AG) and seawater samples (W) at 5 m depth collected on May and June 2011 in the Gulf of Trieste.** Classification of bacterial isolates was done down to the genus level. The contribution of distinct bacterial taxa is expressed as a percentage of the total number of sequences in each sample. N is the total number of isolated bacteria.

Class	Family	Genus	Sample N	<i>Aurelia</i> Jellyfish										Seawater	
				May					June					W_May	W_Jun
				AK1	AK3	AK6	AG1	AG6	AK8	AK10	AK11	AG8	AG11		
				10	13	66	6	11	12	7	8	4	4	51	59
<i>Actinobacteria</i>	<i>Brevibacteriaceae</i>	<i>Brevibacterium</i>		–	–	–	–	–	–	–	–	–	–	1.96	23.73
	<i>Microbacteriaceae</i>	<i>Microbacterium</i>		–	–	7.58	–	–	–	–	–	–	–	–	–
	<i>Micrococcaceae</i>	<i>Arthrobacter</i>		–	–	–	–	–	–	–	–	–	–	–	1.69
		<i>Kocuria</i>		20.00	–	3.03	–	–	–	–	–	–	–	–	–
<i>Flavobacteria</i>	<i>Flavobacteriaceae</i>	<i>Cellulophaga</i>		–	–	1.52	–	–	–	–	–	–	–	–	–
<i>Sphingobacteria</i>	<i>Sphingobacteriaceae</i>	<i>Sphingobacterium</i>		–	–	10.61	–	–	–	–	–	–	–	–	–
<i>Bacilli</i>	<i>Bacillaceae</i>	<i>Bacillus</i>		–	–	1.52	–	9.09	–	–	–	–	–	–	1.69
		<i>Terribacillus</i>		–	–	–	–	–	–	–	–	25.00	–	–	–
	Family_XII_Incertae_Sedis	<i>Exiguobacterium</i>		–	–	4.55	–	–	–	–	–	–	–	–	–
	<i>Planococcaceae</i>	<i>Planococcus</i>		–	–	1.52	–	–	–	–	–	–	–	–	–
	<i>Staphylococcaceae</i>	<i>Salinicoccus</i>		–	–	1.52	–	–	–	–	–	–	–	–	–
		<i>Staphylococcus</i>		–	–	–	–	–	–	–	–	–	–	3.92	1.69
$\alpha$ -proteobacteria	<i>Caulobacteraceae</i>	<i>Brevundimonas</i>		–	–	13.64	–	9.09	–	–	–	–	–	3.92	11.86
	<i>Hyphomonadaceae</i>	<i>Maricaulis</i>		–	–	–	–	–	–	–	–	–	–	1.96	–
		<i>Oceanicaulis</i>		–	–	–	–	–	–	–	–	–	–	–	1.69
	<i>Aurantimonadaceae</i>	<i>Aurantimonas</i>		–	–	–	–	–	–	–	–	–	–	5.88	–
	<i>Hyphomicrobiaceae</i>	<i>Devosia</i>		–	–	–	–	–	–	–	–	–	–	–	1.69
	<i>Phyllobacteriaceae</i>	<i>Nitratireductor</i>		–	–	–	–	–	–	–	–	–	–	–	1.69
		Unclass. <i>Phyllobacteriaceae</i>		–	–	–	–	–	–	–	–	–	–	9.80	3.39
	<i>Rhodobacteraceae</i>	<i>Donghicola</i>		–	–	–	–	–	8.33	–	–	–	–	–	–
		<i>Labrenzia</i>		10.00	–	–	–	–	–	–	–	–	–	–	–
		<i>Paracoccus</i>		–	–	1.52	–	–	–	–	–	–	–	5.88	3.39
		<i>Marivita</i>		–	–	–	–	–	–	–	–	–	–	7.84	–
		<i>Phaeobacter</i>		10.00	–	–	–	–	–	–	–	–	–	–	–
		Unclass. <i>Rhodobacteraceae</i>		–	–	–	16.67	–	–	–	–	–	–	5.88	3.39
	<i>Erythrobacteraceae</i>	<i>Erythrobacter</i>		–	–	–	–	–	–	–	–	–	–	47.06	11.86
		<i>Porphyrobacter</i>		–	–	–	–	–	–	–	–	–	–	–	1.69
		Unclass. <i>Erythrobacteraceae</i>		–	–	–	–	–	–	–	–	–	–	–	–
	<i>Sphingomonadaceae</i>	<i>Sphingopyxis</i>		–	–	–	16.67	–	–	–	–	–	–	–	–
$\beta$ -proteobacteria	<i>Comamonadaceae</i>	<i>Delftia</i>		10.00	–	3.03	–	9.09	–	–	–	–	–	–	–
		Unclass. <i>Comamonadaceae</i>		–	–	–	16.67	–	–	–	–	–	–	–	–
$\gamma$ -proteobacteria	<i>Alteromonadaceae</i>	<i>Alteromonas</i>		–	–	1.52	–	–	8.33	–	–	–	–	3.92	–

