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Species and genome sequence information for *Morganellaceae* and *Cystobacteraceae* species used in POCP analysis.

Species Name	Accession Number
<i>Xenorhabdus cabanillasii</i> JM26	GCA_000531755.1
<i>Xenorhabdus hominickii</i> ANU1	GCA_001721185.1
<i>Xenorhabdus szentirmaii</i> DSM 16338	GCA_000531455.1
<i>Xenorhabdus nematophila</i> ATCC 19061	GCA_000252955.1
<i>Xenorhabdus poinarii</i> strain G6	GCA_000968175.1
<i>Xenorhabdus doucetiae</i> FRM16	GCA_000968195.1
<i>Xenorhabdus griffiniae</i> BMMCB	GCA_001028135.1
<i>Xenorhabdus thuongxuanensis</i> 30TX1	GCA_001908095.1
<i>Xenorhabdus eapokensis</i> DL20	GCA_001908105.1
<i>Xenorhabdus khoisanae</i> MCB	GCA_001037465.1
<i>Xenorhabdus bovienii</i> SS-2004	GCA_000027225.1
<i>Photorhabdus heterorhabditis</i> VMG	GCA_001280945.1
<i>Photorhabdus asymbiotica</i> ATCC 43949	GCA_000196475.1
<i>Photorhabdus temperata</i> subsp. <i>thracensis</i>	GCA_001010285.1
<i>Photorhabdus luminescens</i> ATCC 29999	GCA_000931955.2
<i>Arsenophonus nasoniae</i> DSM 15247	GCA_000429565.1
<i>Moellerella wisconsensis</i> ATCC 35017	GCA_001294465.1
<i>Providencia alcalifaciens</i> DSM 30120	GCA_000173415.1

<i>Providencia rustigianii</i> DSM 4541	GCA_000156395.1
<i>Providencia heimbachae</i> ATCC 35613	GCA_001655055.1
<i>Providencia rettgeri</i> RB151	GCA_001874625.1
<i>Providencia sneebia</i> DSM 19967	GCA_000314895.2
<i>Providencia burhodogranariea</i> DSM 19968	GCA_000314855.2
<i>Providencia stuartii</i> MRSN 2154	GCA_000259175.1
<i>Morganella morganii subsp. morganii</i> NBRC 3848	GCA_001598895.1
<i>Cosenzaea myxofaciens</i> ATCC 19692	GCA_001654855.1
<i>Proteus mirabilis</i> ATCC 29906	GCA_000160755.1
<i>Proteus hauseri</i> ATCC 700826	GCA_001654965.1
<i>Proteus penneri</i> ATCC 35198	GCA_000155835.1
<i>Proteus vulgaris</i> ATCC 49132	GCA_000754995.1

Species Name	Accession Number
<i>Anaeromyxobacter dehalogenans</i>	GCA_000022145.1
<i>Vulgatibacter incomptus</i>	GCA_001263175.1
<i>Archangium gephyra</i>	GCA_001027285.1
<i>Archangium violaceum</i> Cb vi76	GCA_000733295.1
<i>Melittangium boletus</i> DSM 14713	GCA_002305855.1

<i>Cystobacter fuscus</i>	GCA_000335475.2
<i>Cystobacter violaceus</i>	GCA_000733295.1
<i>Hyalangium minutum</i> DSM 14724	GCA_000737315.1
<i>Stigmatella erecta</i> DSM 16858	GCA_900111745.1
<i>Stigmatella aurantiaca</i>	GCA_000165485.1
<i>Corallococcus coralloides</i> DSM 2259	GCA_000255295.1
<i>Myxococcus stipitatus</i>	GCA_000331735.1
<i>Myxococcus hansupus</i>	GCA_000280925.3
<i>Myxococcus xanthus</i>	GCA_000012685.1
<i>Myxococcus virescens</i> DSM 2260	GCA_900101905.1
<i>Myxococcus fulvus</i>	GCA_000988565.1
<i>Myxococcus macrosporus</i> DSM 14697	GCA_002305895.1
<i>Sandaracinus amylolyticus</i>	GCA_000737325.2
<i>Minicystis rosea</i> DSM 24000	GCA_001931535.1
<i>Sorangium cellulosum</i>	GCA_000067165.1
<i>Chondromyces crocatus</i>	GCA_001189295.1
<i>Chondromyces apiculatus</i>	GCA_000601485.1
<i>Labilithrix luteola</i>	GCA_001263205.1
<i>Pajaroellobacter abortibovis</i> BTF92-0548A 99-	GCA_001931505.1

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<i>Haliangium ochraceum</i>	GCA_000024805.1
<i>Nannocystis exedens</i> ATCC 25963	GCA_002343915.1
<i>Enhygromyxa salina</i> DSM 15201	GCA_000737335.3
<i>Plesiocystis pacifica</i>	GCA_000170895.1