Table S1.

Bacterial isolates	**Type of Stress**	**References**
Arthrobacter sp. RC100	Degradation of carbamate pesticides by synthese carbaryl hydrolase	Hayatsu et al. (2001)
Azotobacter chroococcum 67B and 76A	High tolerance to salt and drought stresses	Viscardi et al (2016)
Bacillus xiamenensis PM14	NaCl, drought, and thermal stresses, antibiotic resistance, antifungal activity against *Fusarium oxysporum*	Amna et al. (2020)
Bacillus velezensis D3	Abiotic and biotic stresses, Production of bioactive and volatile molecules	Nadeem et al. (2020)
Bacillus pumilis	NaCl and heavy metal stresses	Khan et al (2016)
Pseudomonas alcaligenes PsA15, *Bacillus polymyxa* BcP26 *Mycobacterium phlei* MbP18	Tolerance of extreme temperatures, high concentrations of NaCl, metal stress and nutrient deficiency	Egamberdieva et al. 2007
Burkholdera cepacia, SE4 *Promicromonospora sp.* SE188 *Acinetobacter Calcoaceticus* SE370	Salt and drought stresses	Kang et al (2014)
Pseudomonas putida uw 4, uw 3 *P. putida* GAP-45 *P. putida* NBR 10987 *Pseudomonas* sp. AMPKP6	Drought and NaCl stresses, Phytoremediation heavy metals, Segradation of hydrocarbons (Phenanthrene, Pyrene); Tolerance to saline, drought and thermal stresses	Huang et al (2004); Kumar et al (2016); Sandhay et al (2009)
Bacillus amyloliquefaciens	NaCl and drought stresses tolerance and antifungal activity	Vurukonda et al. (2016)
Pseudomonas pavonaceae 170 *Sphingomonas paucimobilis* UT26	Degradation of pesticides by haloalcane deshalogenases	(Sharma et al., 2018)
Bacillus pumilis; *Gluconacetobacter diazotrophicus* PAL5	NaCl and heavy metal stresses	Khan et al (2016)
Rahnella sp. JN6	Heavy metal stress	He et al. (2013)
Bacillus proteolyticus 4D, *Bacillus velezensis* 9I *Lysinibacillus* sp. 10J	Heavy metal stress (lead resistant)	Kamaruzzaman et al. (2019)
Providencia sp., *Morganella* sp., *Stenotrophomonas* sp., *Bacillus* sp.	Bioremediation (cadmium tolerance)	Kartik et al. (2016)
Cupriavidus necator GX5; *Sphingomonas* sp. GX15; *Curtobacterium* sp. GX31	Bioremediation (cadmium tolerance)	Li et al. 2019
Bacillus sp. SC2b	Bioremediation (cadmium, zinc, plomb tolerance)	Ma et al., 2015

Bacterial isolates	Type of Stress	References
Pseudomonas rhizophila 211	Pesticide bioremediation	Hassen et al.2018
Enterobacter sp. CID	Heavy metal resistance	Subrahmanyam et al. 2018
Pseudomonas extremorientalis TSAU13 *Pseudomonas chlororaphis TSAU20*	Stress tolerance; Biocontrol activity	Egamberdieva et al.2017
Kocuria flava 402 *Bacillus vietnamiensis403*	Bioremediation (arsenic adsorption)	Mallick et al. 2018
Methylbacterium sp	Heavy metal resistance	Sánchez-López et al. 2018
Pseudomonas fluorescens S4, S9; *P. aeruginosa* S8; *P. fluorescens* S10	Heavy metal tolerance	Meliani et al. 2016
Pseudomonas aeruginosa	Antifungal activity, chromium tolerance	Patel et al. 2012
Pseudomonas poae BA1; *Acinetobacter bouvetii* BP18; *Bacillus thuringiensis* BG3; *Stenotrophomonas rhizophila* BG32	Degradation of hydrocarbons by biosurfactants	Ali Khan et al. (2017)

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