

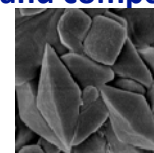
Microbiology/Biotechnology - Research Group- MBRG

Research Interests

- 1-Microbial Biotechnology
- 2-MycoSAFE: Control of food-borne mycotoxins in all food chain
- 3-Microbial Biodegradation of polluting molecules and compounds
4. Biomineralization processes
- 5- Plant Biotechnology
- 6- Environmental microbiology.

Research Projects

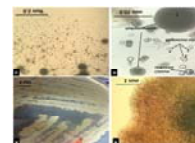
- Monitoring, prevention and control of mycotoxin Food contamination in Qatar
- Development of bio-insecticides based on local Qatari *Bacillus thuringiensis* strains for the biological control of harmful Dipteran disease vectors.
- Application of hydrocarbon-degrading bacterial consortia for the bioremediation of polluted soils with bio pole technology
- Innovative environmental-friendly solutions for the re-use of produced waters for irrigation purposes and its effects on plant
- Improvement of Date Palm Production and Quality under Qatar Conditions
- Conservation of endangered Qatari desert plant species through In-vitro and genomic approaches
- Acacia* symbiotic bacteria
- Sustainable Bio-modification of Surface Soils to Resist Erosion due to Wind Loading
- Development of a novel polymer-modified graphene oxide nanocomposites for controlling CaSO₄ scaling and biofouling on reverse osmosis



Qatari *Bacillus thuringiensis* crystals [Jaoua et al.]



Qatari osmotolerant tomato [Abdel Fattah et al.]



Qatari biomimetic forming *Virgibacillus bacteria* [AlDisi et al.]

Members

- Prof. Samir Jaoua
- Dr Mohammed Alsafran
- Dr Roda Al-Thani
- Prof. Nabil Zouari
- Dr Talaat Abdelfattah
- Dr Mahmoud Kardousha
- Dr Abd Elrahman El-Khidir
- Ms Dhabia Al-Thani
- Mrs Fatima Al-Yafei
- Ms Abeer Al-Mohannadi

Key Outcomes (last 3 years)

- > 65 publications
- > 4.6 M US\$ funding
- 16 invited talks, > 4 PhD; ++MSc; ++Postdocs
- 8 International collaboration

Collaborators

