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Research interests: The spread of multidrug-resistant isolates constitutes a serious clinical challenge. Quorum sensing allows microbial communication that coordinates the sense and the response of a single cell to its surrounding population via the release of the signaling molecules. We study Quorum sensing inhibition as antipathogenic approach to eliminate bacterial virulence and toxins. We also develop nanoparticles to compete bacterial resistance and virulence.

Selected Publications:

1. Rasha Barwa, Mona Shaaban (2017). The open microbiology Journal, 11.
2. El-Gohary and Shaaban. (2017). European Journal of Medicinal Chemistry 137 439e449.
3. MI Shaaban, MA Shaker, FM Mady (2017). Journal of Nanobiotechnology 15 (1), 29.5.
4. Soha El-Shaer, **Mona Shaaban**, Rasha Barwa and Ramadan Hassan (2016).. **Journal of Medical Microbiology**, 65, 1-11.
5. Hassan Ramadan, **Mona I Shaaban**, Fatma Abdel Bar, Areej El-Mahdy and Shadi Shokralla (2016). **Front. Microbiol.** doi: 10.3389/fmicb.2016.00659.

Patents: Preparation of standardized allergen extract for skin testing and allergy vaccines. Amina Abd El-Maksoud, Fahalla Bellal, Dalia Rashad, Mona Shaaban, Mohamed Abo-Baker.

Recognitions: Recognized by the F1000 Journal Top Ten Article of Significant Interest Selected from This Issue by the Editors. <http://f1000.com/prime/5674981>.

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