

CURRICULUM VITAE

PERSONAL DATA

Name: Sarah Abdul Rahman Al Rashed
Academic Rank: Associate Professor of Phycology
Nationality: Saudi Arabia
Languages: Arabic and English
Address: King Saud University, College of Science,
Botany and Microbiology Department,
P. O. Box. 2455, Riyadh 11451, Saudi Arabia.
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ACADEMIC QUALIFICATIONS

1. **Doctor of Philosophy (2010) in Phycology.** Title of Thesis: “Molecular characteristics of some Hemophilic cyanobacteria isolated from Saudia Arabia.
2. **Master of Science (1416H) in Phycology:** “Toxicity effects of crude oil and some compounds on some species of cyanobacteria”, King Saud University, KSA.
3. **Bachelor of Science: Department of Botany and Education,** Scientific Departments, Girls' College, KSA.

EMPLOYMENT HISTORY

- ❖ Present: Associate Professor, Department of Botany and Microbiology, King Saud University, KSA.
- ❖ Assistant Professor, Department of Botany and Microbiology, King Saud University, KSA.
- ❖ Lecturer, Department of Botany and Microbiology, King Saud University, KSA.

ASSOCIATION'S MEMBERSHIP:

1. Saudi Society for Applied Sciences Council Member (PNU)

World Wide Web Sites

- Web of Science ResearcherIDMFI-6935-2025 
- Orcid:  <https://orcid.org/0000-0003-2049-6173>

RESEARCH INTERESTS

Development and evaluation of algae's use in producing renewable energy, pharmaceuticals, and organic materials.

PUBLICATIONS

Sarah Al-Rashed, Najat Marraiki, Asad Syed, Abdallah M. Elgorban, Kollur Shiva Prasad, Chandan Shivamallu, Ali H. Bahkali (2021). Bioremediation characteristics, influencing factors of Dichlorodiphenyltrichloroethane (DDT) removal by using non-indigenous *Paracoccus* sp. <https://doi.org/10.1016/j.chemosphere.2020.129474>.

Balasurya, S., Syed, A., Raju, L. L., **Al-Rashed, S.**, Thomas, A. M., Das, A., & Khan, S. S. (2021). Elucidation of photocatalysis, photoluminescence and antibacterial studies of Ag₂MoO₄ decorated NiMoO₄ nano-heterostructure. *Optical Materials*, 113, 110856.

B. Janani, Asad Syed, Ajith M. Thomas, Sarah Al-Rashed, Lija L. Raju, S. Sudheer Khan (2021). Designing spinel NiCr₂O₄ loaded Bi₂O₃ semiconductor hybrid for mitigating the charge recombination and tuned band gap for enhanced white light photocatalysis and antibacterial applications. *Journal of Alloys and Compounds* 865 (2021) 158735.

Sarah Al-Rashed, Abu Baker , Syed Sayee Ahmad , Asad Syed , Ali H. Bahkali , Abdallah M. Elgorban , Mohd Sajid Khan (2021). Vincamine, a safe natural alkaloid, represents a novel anticancer agent. *Bioorganic Chemistry* 107 (2021) 1046262.

Ariyawansa, H. A., Tsai, I., Withee, P., Tanjira, M., Yen, C. Y., **Al-Rashed, S.**, ... & Cheewangkoon, R. (2020). *Diaporthe taiwanensis*: A new taxon causing leaf spots and necrosis on *Ixora chinensis* in Taiwan. *Phytotaxa*, 461(3), 155-165.

Kokilavani, Asad Syed, Lija L. Raju , Najat Marraiki , **Sarah Al-Rashed** , Abdallah M. Elgorban, Ajith M. Thomas, S. Sudheer Khan (2020). Highly selective and sensitive tool for the detection of Hg (II) using 3-(Trimethoxysilyl) propyl methacrylate functionalized Ag Cenano composite from real water sample. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 242 : 118738: 1- 8.

Ahmed Abd-ElGawad, Abd El-Nasser El Gendy, Yasser El-Amier b, Ahmed Gaara , Elsayed Omer , Saud Al-Rowaily , Abdulaziz Assaeed , **Sarah Al-Rashed**, Abdelsamed Elshamy (2020). Essential oil of *Bassia muricata*: Chemical characterization, antioxidant activity, and allelopathic effect on the weed *Chenopodium murale*. *Saudi journal of biological sciences*, 27(7), 1900-1906.

S. Balasurya, Asad Syed, Ajith M. Thomas, Najat Marraiki, **Sarah Al-Rashed**, Abdallah M. Elgorban, Lija L. Rajud, Arunava Dasa, S. Sudheer Khana, (2020). Colorimetric detection of mercury ions from environmental water sample by using 3-(Trimethoxysilyl)propyl methacrylate functionalized Ag NPstryptophan nanoconjugate *Journal of Photochemistry & Photobiology, B: Biology* 207 : 111888.

Ebeed Saleh , Alaa Eldin Morshdy , Eman El-Manakhly , **Sarah Al-Rashed** , Helal F. Hetta , Philippe Jeandet , Ramadan Yahia , Gaber El-Saber Batiha and Eman Ali (2020). Effects of Olive Leaf Extracts as Natural Preservative on Retailed Poultry Meat Quality. *Foods*, 9, 1017; 1-12.

Asad Syed , Najat Marraiki , **Sarah Al-Rashed**, Abdallah M. Elgorban, Mohamed Taha Yassin , (2020). A potent multifunctional MnS/Ag-polyvinylpyrrolidone nanocomposite for enhanced

detection of Hg²⁺ from aqueous samples and its photocatalytic and antibacterial applications. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 244 : 1-9.

S. Kokilavani , Asad Syed , Ajith M. Thomas, Najat Marraiki , **Sarah Al-Rashed** , Abdallah M. Elgorban , Lija L. Raju , Arunava Das , S. Sudheer Khan (2020). Polyethylene glycol functionalised Ag NPs based optical probe for the selective and sensitive detection of Hg (II). *Journal of Molecular Liquids* 307: 112978: 1-11.

B. Janani , Asad Syed , Ajith M. Thomas , Najat Marraiki , **Sarah Al-Rashed** , Abdallah M. Elgorban , Lija L. Raju , Arunava Das , S. Sudheer Khan (2020). Enhanced SPR signals based on methylenediphosphonic acid functionalized Ag NPs for the detection of Hg (II) in the presence of an antioxidant glutathione. *Journal of Molecular Liquids* 311:113281.1-8

Abir Abdullah Al-Amro, Moudhi Abdullah Al-Mutlaq, Sara Al-Moauthor, Nouf Al-Tukhaifi, Rawan Bin Othaimeen, Nada Al-Mutairi, **Sarah Al-Rashed**, Fouziah Al-Malki and Samina Hyder Haq, (2019). Antioxidant activity of rhodophyta algae *Polysiphonia* and *Laurencia* collected from the Arabian Gulf. *Asian J. Applied Sci.*, 12: 71-75.

Yasser El-Amier , Khalid Elhindi , Salah El-Hendawy , **Sarah Al-Rashed** and Ahmed Abd ElGawad (2019). Antioxidant System and Biomolecules Alteration in *Pisum sativum* under Heavy Metal Stress and Possible Alleviation by 5-Aminolevulinic Acid. *Molecules*, 24, 4194; doi:10.3390/molecules24224194

Samina Hyder Haq , Ghaida Al-Ruwaished, Moudhi Abdullah Al-Mutlaq, Sundus Ali Naji, Maha Al-Mogren, **Sarah Al-Rashed** , Qura T ul Ain, Abir Abdullah Al-Amro & Adnan Al Mussallam (2019) Antioxidant, Anticancer Activity, and Phytochemical Analysis of Green Algae, *Chaetomorpha* Collected from the Arabian Gulf. *Scientific Reports* 9:18906 <https://doi.org/10.1038/s41598-019-55309-1>

Kahkashan Perveen*, Najat A. Bokhari, Iram Siddique, **Sarah A. I. Al-Rashid** (2018) .Antifungal Activity of Essential Oil of *Commiphora molmol* Oleo Gum Resin. *TEOP* 21 (3) pp 667 - 673

Calcium Arwa A. AL-Huqail, **Sarah A. AL-Rashed**, Mohamed M. Ibrahim, Gehan A. ElGaalyb, Mohammad Irfan Qureshid (2017). Arsenic induced eco-physiological changes in (*Cicerarietinum*) and protection by gypsum, a source of Sulphur and calcium. *Scientia Horticulturae* 217 : 226–233.

Sarah A. Al-Rashed, Mohamed M. Ibrahim, Gehan A. El-Gaaly , Sameha Al-Shehri , Ahmed Mostafa (2016). Evaluation of radical scavenging system in two microalgae in response to interactive stresses of UV-B radiation and nitrogen starvation. *Saudi Journal of Biological Sciences*, 23, 706–712

Sarah A. A. Al-Rashed, Mohamed M. Ibrahim, Maysa M.A. Hatata And Gehan A. El-Gaaly (2016). Biodiesel production and antioxidant capability from seeds of *Salicornia begelovii* collected from Al Jubail, Eastern Province, Saudi Arabia. *Pak. J. Bot.*, 48(6): 2527-2533.

Discussion of thesis

- Raghad Rashed Salem Alzahrani (2019). An Enhancement of the Antibacterial Efficacy of BioNanoparticles from Some Species of Seaweeds against Multidrug-Resistant Bacteria.
- Marwa Ibrahim Elfoly (2020). Effect of the brown algae extract, Fucoidan, on Triple Negative

Breast Cancer Proliferation Cell Deatg Ligand-1 (PD-L1) Expression.

Teaching Courses at King Saud University:

Bachelor	Master	PhD MBI
101 MBI	571 MBI	671 MBI
231 MBI	572 MBI	
252 MBI		
280 MBI		
346 MBI		
484 BOT		
442 MBI		
484 MBI		

The students are under my supervision

#	Thesis Title (PhD)	Student name	situation
1.	The inhibitory effect of red sea brown algae against tobacco mosaic virus (TMV).	ASMA ALSHAMARI	Co- Supervisor