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**EDUCATION**

02/2014 – 03/2018

**PhD** (Biology)

King Abdulaziz University (KAU)

Jeddah, Saudi Arabia

07/2009 – 06/2011

**M.Sc** (Microbiology)

Osmania University

Hyderabad, India

07/2006 – 06/2009

**B.Sc** (Biotechnology)

Osmania University

Hyderabad, India

10/2008 – 10/2009

**PGDCA**

DOAECC Society

New Delhi, India

**WORK EXPERIENCE**

08/2011 – 07/2013

**Lecturer in Microbiology**

Prathibha Degree & PG College (Osmania

University) Hyderabad, India.

**EXPERIMENTAL SKILLS**

**Human genetics and Bioinformatics**

Human cell line culture, DNA and RNA isolation, Apoptosis assays, Fluorescence microscopy, Gene expression profiling using RNA-Seq analysis.

**Microbiology and Molecular genetics**

Whole genome sequencing (WGS) data analysis, Transmission Electron Microscopy, Screening and isolation of microorganisms, ELISA, immunochemistry & staining, chemotherapeutic assays for antibiotic screening.

**US Patent:** Jamal SM Sabir, Nahid H. Hajrah, Kulvinder Singh Saini, **Waseem M.A**, Hall N, Abdullah Y. Obaid and RS Bora et al. (2018) A Pharmaceutical composition for treating cancer and a method thereof (501458US).

**SELECTED PUBLICATIONS**

1. **Waseem M.A**, Nahid H. Hajrah, Jamal S.M. Sabir, Kulvinder Singh Saini, Hall N, and Roop Singh Bora et al. (2019) "Gene expression profiling to elucidate the pharmacological and toxicological effects of *Ricinus communis* L leaf extract in a mammalian cell line," (Biotechnology and Biotech equipment).

2. Nahid H. Hajrah, **Waseem M.A**, Kulvinder Singh Saini, Hall N and Roop Singh Bora et al. (2018) Deciphering the Mechanism of anti-bacterial activity of phytochemicals derived from medicinal plant *Ricinus communis*. Academia Journal of Medicinal Plants 6(3): 034-044, March 2018.

3. Huseyin Tombuloglu, Guzin Tombuloglu, Mehmet Serdal Sakcali, Ali Turkan, Khalid Rehman Hakeem, Hesham F. Alharby, Shah Fahd, **Waseem M.A**. 2017. Proteomic analysis of naturally occurring boron tolerant plant *Gypsophila sphaerocephala* L. in response to high boron concentration, In Journal of Plant Physiology (Elsevier), 216: 212-217.

4. Nahid H. Hajrah, **Waseem M.A**, Jamal S.M. Sabir, Kulvinder Singh Saini and Roop Singh Bora et al. (2018) Ultrastructural study on the antibacterial activity of *Ricinus communis* L. against bacterial pathogens. Biotechnology and Biotech equipment 32(3): 686- 691.

**Book**

5. KR Hakeem, **Waseem M.A**, Shoeb Syed Razvi, Muzzammil Hussain (2019). Oral Health and Herbal Medicine Springer Briefs in Public Health. ISBN 978-3-030-04336-0.

## Awards and Conferences

### US Patent

Jamal SM Sabir, Nahid H. Hajrah, Kulvinder Singh Saini, **Waseem M.A**, Hall N, Abdullah Y. Obaid and RS Bora et al. (2018) A Pharmaceutical composition for treating Cancer and a method thereof. (Ref - 501458US

- Oral presentation in '**International Conference on Toxicology**, Hyderabad, India – March 2019.
- Oral presentation in '**International Conference on Biotechnological Innovations** in Food and Health Care: 2019 '**Dubai, UAE** - January 2019.
- Invited Speaker in **International Pharmacy conference**, Hyderabad, September 2018.
- Oral presentation on Malarial drugs in **International Chemistry Conference**, Loyola P.G. College, Secunderabad, Telangana state, India - March 2011.

## Research Accomplishments

1. **Waseem M.A**, Nahid H. Hajrah, Jamal S.M. Sabir, Kulvinder Singh Saini, Hall N, and Roop Singh Bora et al. (2019) "Gene expression profiling to elucidate the pharmacological and toxicological effects of *Ricinus communis* L leaf extract in a mammalian cell line," . Biotechnology and Biotech equipment 32(3): 686- 691.
2. Nahid H. Hajrah, **Waseem M.A**, Kulvinder Singh Saini, Hall N and Roop Singh Bora et al. (2018) Deciphering the Mechanism of anti-bacterial activity of phytochemicals derived from medicinal plant *Ricinus communis*. Academia Journal of Medicinal Plants 6(3): 034-044, March 2018.
3. Nahid H. Hajrah, **Waseem M.A**, Jamal S.M. Sabir, Kulvinder Singh Saini and Roop Singh Bora et al. (2018) Ultrastructural study on the antibacterial activity of *Ricinus communis* L. against bacterial pathogens. Biotechnology and Biotech equipment 32(3): 686- 691.
4. **Waseem M.A**, Nahid H. Hajrah, Jamal S.M. Sabir, Kulvinder Singh Saini and Roop Singh Bora et al. (2018) Therapeutic role of *Ricinus communis* L. (Castor oil plant) and their active constituents in disease prevention and treatment. Asian Pac J Trop Med 2018; 11(3): 177-185.
5. **Waseem M.A**, NH Hajrah, JSM Sabir, FA Mohammed, SMA El-Hamidy, S Al-Garni, KR Hakeem, KS Saini, RS Bora. Antibacterial Activity of *Allium ampeloprasum*

- Against ESBL+ve *Escherichia coli* and Methicillin Resistant *Staphylococcus aureus* by Transmission Electron Microscopy. Journal of Agriculture Biotechnology. 2017; 01 (01):16-20.
6. Huseyin Tombuloglu, Guzin Tombuloglu, Mehmet Serdal Sakcali, Ali Turkan, Khalid Rehman Hakeem, Hesham F. Alharby, Shah Fahd, **Waseem M.A.** 2017. Proteomic analysis of naturally occurring boron tolerant plant *Gypsophila sphaerocephala* L. in response to high boron concentration, Journal of Plant Physiology (Elsevier), 216: 212-217.

#### Book

7. KR Hakeem, **Waseem M.A.**, Shoeb Syed Razvi, Muzzammil Hussain (2019). Oral Health and Herbal Medicine Springer Briefs in Public Health. ISBN 978-3-030-04336-0.

#### Book chapters

8. **Waseem M.A.**, Yasir Anwar, KR Hakeem, Fazal khan, Jamal S.M. Sabir, Kulvinder Singh Saini and Roop Singh Bora. (2018). Role of Microorganisms in degradation of Polycyclic Aromatic Hydrocarbons (PAHs). ISBN-13: 978-1527514041. Cambridge publishers.
9. **Waseem M.A.**, Kaleemuddin Mohammed, Babajan Banganapalli, Noor Ahmad Shaikh, Shoeb Syed, KR Hakeem (2019) Medicinal plant with a multifaceted role in maintaining oral hygiene: *Salvadora persica*. Book chapter (In Press) Springer Nature. Plants and Human health; Vol – 3.
10. Furkhan Ahmed Mohammed, **Waseem M.A.**, Babajan Banganapalli, Noor Ahmad Shaikh, KR Hakeem (2019) Protective role of medicinal herb—*Anethum graveolens* (Dill) against various human diseases and metabolic disorders. Springer Nature. Plants and Human health; Vol – 3.

#### Personal Details

Nationality	: Indian
Gender	: Male
Status	: Married
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Date of Birth	: 28 June 1988
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ResearchGate	: <a href="https://www.researchgate.net/profile/Mohammed_Abdul_Waseem">https://www.researchgate.net/profile/Mohammed_Abdul_Waseem</a>
Linked In	: <a href="https://www.linkedin.com/in/dr-waseem-mohammed-abdul-89091584">https://www.linkedin.com/in/dr-waseem-mohammed-abdul-89091584</a>