**CURRICULUM VITAE**
**10 December 2023**
**Mona Alharbi, Assistant Professor**
**Biochemistry Department**
***King Saud University, Riyadh, Saudi Arabia***
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## EDUCATION

### Degrees

| | | |
|---|---|---|
| Bachelor degree | 2004-2008 | **Bachelor of Biochemistry,** *King Saud University, Riyadh, Saudi Arabia* |
| Master (MSc) | 2013-2015 | **Master of Biotechnology**, *University of Queensland, Brisbane, Australia* ***Thesis title*** *"The effect of magnesium on the filaggrin expression as signal for the apoptosis and the involvement of langerhans cells and pro-inflammatory cytokines in epidermis of human skin."* |
| PhD | 2016-2020 | ***Exosomes Biology laboratory, Oncology,*** *Collage of Medicine,* University of Queensland, Brisbane, Australia ***Thesis title*** *"New Strategies for Identification of Therapeutic Target of Ovarian Cancer"* |

### Work Experience

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|---|---|---|
| Research assistance | 2008-2009 | **King Khalid Hospital and Research Centre (Stem Cell Unit)** |
| Demonstrator | 2009-2020 | **Biochemistry department,** *King Saud University, Riyadh, Saudi Arabia* |
| Assistant Professor | Dec. 2020-to date | **Biochemistry department,** *King Saud University, Riyadh, Saudi Arabia* |

## AWARDS

**2023** Dean's Award for Outstanding Higher Degree by Research These 2020, Faculty of Medicine, ***University of Queensland, Australia***

**2020** Academic Excellence Award, ***Saudi Cultural Mission, Canberra, Australia***

**2019** TAS2019 Poster Award, 6th Thomas Ashworth CTC & Liquid Biopsy Symposium, ***Sydney, Australia***

**2019** July Publication of the Month winner, University of Queensland Centre for Clinical Research, Faculty of Medicine, ***University of Queensland***

**2019** Internship at Department of Physiology, Anatomy and Genetics, ***University of Oxford***

**2019** International Travel Award, ***University of Queensland***, ***Brisbane, Australia.***

**2018** The Best Poster Award at the 2018 Australasian Extracellular Vesicles Conference, ***University of Technology Sydney (UTS), Sydney, Australia***.

**2018** Academic Excellence Award, ***Saudi Cultural Mission, Canberra, Australia***.

**2017** Domestic travel award, ***University of Queensland, Brisbane, Australia***.

**2017** Travel Award from the 65th Annual Meeting of the Society for Reproductive Investigation, 2018, ***San Diego, USA***

**2017** Academic Excellence Award, ***Saudi Cultural Mission, Canberra, Australia***.

## PUBLICATIONS

### Full articles (†as a first author)

1. Shayna N. Sharma, **Mona Alharbi,** Andrew Lai, Miharu Kobayashi, Richard Kline, Katrina Wade, Gregory E. Rice, Carlos Salomon (2017). Exosomes, the Tumour Microenvironment and Hypoxia in Ovarian Cancer. Hypoxia and Human Diseases, Dr. Jing Zheng (Ed.), **InTech**, DOI: 10.5772/65688.
2. **Mona Alharbi†,** Felipe Zuñiga, Elfeky, O., Dominic Guanzon, Andrew Lai, Gregory E. Rice, John D. Hooper, Carlos Salomon (2018). The potential role of miRNAs and exosomes in chemotherapy in ovarian cancer. **Endocrine-related cancer**, 1(aop). doi:10.1530/ERC-18-0019

3. Shayna Sharma, **Mona Alharbi**, Miharu Kobayashi, Andrew Lai, Dominic Guanzon, Felipe Zuñiga, Valeska Ormazabal, Carlos Palma, Katherin Scholz-Romero, Gregory E. Rice, John D. Hooper, Carlos Salomon (2018). Proteomic Analysis of Exosomes Reveals an Association between Cell Invasiveness and Exosomal Bioactivity on Endothelial and Mesenchymal Cell Migration In-Vitro. **Clinical Science**, doi: 10.1042/CS20180425
4. **Mona Alharbi†,** Andrew Lai, Dominic Gunazon, Carlos Palma, Felipe Zuñiga, Lewis Perrin, Yaowu He, John D. Hooper, Carlos Salomon (2019). Ovarian cancer-derived exosomes promote tumour metastasis in vivo an effect modulated by the invasiveness capacity of their originating cells. **Clinical Science**, doi:10.1042/CS20190082
5. **Mona Alharbi†**, Shayna Sharma, Dominic Guanzon, Andrew Lai, Felipe Zuñig, Muhammad J.A.Shiddiky, YusukeYamauchi, Alexis Salas-Burgos, Yaowu He, Tanja Pejovic MD, Carmen Winters MD, Terry Morgan, Lewis Perrin, John D. Hooper, CarlosSalomon (2020). miRNa signature in small extracellular vesicles and their association with platinum resistance and cancer recurrence in ovarian cancer. **Nanomedicine**, doi:10.1016/j.nano.2020.102207
6. Saadeldin IM, Khalil WA, **Mona Alharbi**, Lee SH (2020). The Current Trends in Using Nanoparticles, Liposomes, and Exosomes for Semen Cryopreservation. **Animals** (Basel). doi: 10.3390/ani10122281. PMID: 33287256; PMCID: PMC7761754.
7. **Mona G. Alharbi†,** Seok Hee Lee†**,** Aaser M. Abdelazim, Mosleh M. Abomughaid, Islam M. Saadeldin (2021). Role of extracellular vesicles in compromising cellular resilience to environmental stressors. **BioMed Research International**
8. **Mona Alharbi†**, Andrew Lai, Shayna Sharma, Priyakshi Kalita-de Croft, Nihar Godbole, America Campos, Dominic Guanzon, Alexi Salas, Flavio Carrion, Felipe A. Zúñiga, Lewis Perrin, Yaowu He, Tanja Pejovic, Carmen Winters, Terry Morgan, John D. Hooper, Gregory Rice, Carlos Salomon (2021). Extracellular vesicle transmission of chemoresistance to ovarian cancer cells is associated with hypoxia-induced expression of glycolytic pathway proteins, and prediction of epithelial ovarian cancer disease recurrence. **Cancers**
9. Rasheed S, Aziz M, Saeed A, Ejaz SA, Channar PA, Zargar S, Abbas Q, Alanazi H, Hussain M, **Alharbi M**, Kim SJ, Wani TA, Raza H. Analysis of 1-Aroyl-3-[3-chloro-2-methylphenyl] Thiourea Hybrids as Potent Urease Inhibitors: Synthesis, Biochemical Evaluation and Computational Approach. Int J Mol Sci. 2022 Oct 1;23(19):11646. doi: 10.3390/ijms231911646. PMID: 36232944; PMCID: PMC9570211.
10. Soror AS, Ahmed MW, Hassan AEA, **Alharbi M**, Alsubhi NH, Al-Quwaie DA, Alrefaei GI, Binothman N, Aljadani M, Qahl SH, Jaber FA, Abdalla H. Evaluation of Green Silver Nanoparticles Fabricated by *Spirulina platensis* Phycocyanin as Anticancer and Antimicrobial Agents. Life (Basel). 2022 Sep 26;12(10):1493. doi: 10.3390/life12101493. PMID: 36294927; PMCID: PMC9605328.
11. Ashry NM, El Bahgy HEK, Mohamed A, Alsubhi NH, Alrefaei GI, Binothman N, **Alharbi M**, Selim S, Almuhayawi MS, Alharbi MT, Nagshabandi MK, Saad AM, El-Saadony MT, Sitohy B. Evaluation of graphene oxide, chitosan and their complex as antibacterial agents and anticancer apoptotic effect on HeLa cell line. Front Microbiol. 2022 Oct 4;13:922324. doi: 10.3389/fmicb.2022.922324. PMID: 36267179; PMCID: PMC9577200.
12. Alsubhi NH, Al-Quwaie DA, Alrefaei GI, **Alharbi M**, Binothman N, Aljadani M, Qahl SH, Jaber FA, Huwaikem M, Sheikh HM, Alrahimi J, Abd Elhafez AN, Saad A. Pomegranate Pomace Extract with Antioxidant, Anticancer, Antimicrobial, and Antiviral Activity Enhances the Quality of Strawberry-Yogurt Smoothie.

Bioengineering (Basel). 2022 Nov 28;9(12):735. doi: 10.3390/bioengineering9120735. PMID: 36550941; PMCID: PMC9774345.

13. Ben Bacha A, Alonazi M, **Alharbi MG**, Horchani H, Ben Abdelmalek I. Biodiesel Production by Single and Mixed Immobilized Lipases Using Waste Cooking Oil. Molecules. 2022 Dec 9;27(24):8736. doi: 10.3390/molecules27248736. PMID: 36557867; PMCID: PMC9782179.
14. Alamoudi SA, Saad AM, Alsubhi NH, Alrefaei GI, Al-Quwaie DA, Binothman N, Aljadani M, **Alharbi M**, Alanazi H, Babalghith AO, Almuhayawi MS, Gattan HS, Alruhaili MH, Selim S. Upgrading the physiochemical and sensory quality of yogurt by incorporating polyphenol-enriched citrus pomaces with antioxidant, antimicrobial, and antitumor activities. Front Nutr. 2022 Sep 26;9:999581. doi: 10.3389/fnut.2022.999581. PMID: 36225874; PMCID: PMC9549274.
15. Ben Bacha A, Alonazi M, Alanazi H, **Alharbi MG**, Jallouli R, Karray A. Biochemical Study of *Bacillus stearothermophilus* Immobilized Lipase for Oily Wastewater Treatment. *Processes*. 2022; 10(11):2220. https://doi.org/10.3390/pr10112220
16. Saeed, A., Ejaz, S. A., Saeed, M., Channar, P. A., Aziz, M., Fayyaz, A., **Alharbi M**, & Iqbal, J. (2023). Synthesis, Biochemical Characterization, and in-Silico Investigations of Acyl-3-(Ciprofloxacinyl) Thioureas as Inhibitors of Carbonic Anhydrase-II. *Polycyclic Aromatic Compounds*, 1-19.
17. **Mona Alharbi†,** Andrew Lai, Nihar Godbole, Felipe Zuñiga, Alexander Quinn, Mengliu Yang, Sherry Y. Wu, Carlos Salomon: Enhancing Precision Targeting of Ovarian Cancer Tumor Cells In Vivo Through Extracellular Vesicle Engineering (2023) submitted to Cancer Communications.

## Conferences

### *Oral Presentations*

1. **Mona Alharbi†,** Carlos Palma, Dominic Guanzon, Gregory E. Rice, Lewis Perrin, John D. Hooper, Carlos Salomon. Functional characterisation of a panel of ovarian cancer cell lines in response to carboplatin – potential role of exosomes in chemotherapy resistance. **The 8th international Postgraduate Symposium in Biomedical Science, Brisbane, Australia, 2017**

2. **Mona Alharbi†**, Andrew Lai, Dominic Guanzon, Shayna Sharma, Carlos Palma, Felipe Zuñiga, Gregory E. Rice, Lewis Perrin, John D. Hooper, Carlos Salomon. Integrative Analysis of Multi-Omics Exosomal Data for Identifying Multi-Markers for Susceptibility to Chemotherapy in Ovarian Cancer. **The 65th Annual Meeting of the Society for Reproductive Investigation, 2018, USA**

3. **Mona Alharbi†,** Andrew Lai , Dominic Guanzon , Felipe Zuñiga , Yaowu He , John D Hooper, Carlos Salomon. Ovarian cancer cell invasiveness is associated with differential expression of proteins within exosomes that facilitate ovarian cancer tumor growth and metastasis in-vivo. **The 2018 Australasian Extracellular Vesicles Conference, University of Technology Sydney (UTS), Sydney, Australia.**

4. **Mona Alharbi†,** Andrew Lai, Dominic Guanzon, Felipe Zuñiga , Yaowu He , John D Hooper, Carlos Salomon. Ovarian cancer cell invasiveness is associated with differential expression of proteins within exosomes that facilitate ovarian cancer tumor growth and metastasis in-vivo. **Ovarian Cancer research symposium 2018, Melbourne, Australia.**

5. **Mona Alharbi†,** Shayna Sharma, Dominic Guanzon, Andrew Lai, Terry Morgan, Lewis Perrin, John D. Hooper, Carlos Salomon. The role of exosomal miR-891 in ovarian cancer chemoresistance and recurrence**. 2019 Faculty of Medicine HDR Symposium, Brisbane, Australia, 2019.**

### *Poster presentations*

1. **Mona Alharbi†,** Richard Kline, Katrina Wade, Gregory E. Rice, Carlos Salomon. New Strategies for identification of therapeutical target of ovarian cancer. **2016 Annual Queensland Translating Research into Practice (TRIP) Symposium, Mater Research, Brisbane, Australia, 2016**

2. **Mona Alharbi†,** Richard Kline, Katrina Wade, John Hooper, Gregory Rice, Carlos Salomon. Exosomes isolated from ovarian cancer cultured under hypoxic conditions contribute to chemotherapy resistance. **Queenstown Research Week 2016, Cellular Communications SatelliteQPACT, Queenstown, New Zealand, 2016**

3. **Mona Alharbi†,** Richard Kline, Katrina Wade, John Hooper, Gregory Rice, Carlos Salomon. The emerging role of exosomes in chemotherapy resistance in ovarian cancer**. 3rd Thomas Ashworth CTC Conference, Sydney, Australia, 2016**

4. **Mona Alharbi†,** Richard Kline, Katrina Wade, Jacob Estes, John Hooper, Gregory Rice, Carlos Salomon. Ovarian cancer cells transfer resistance to chemotherapy to other cells via exosomes. **Society of Reproductive Investigation, 2017**

5. **Mona Alharbi†,** Shayna Sharma, Carlos Palma, Richard Kline, Katrina Wade, Jacob Estes, John Hooper, Gregory Rice, Carlos Salomon. Effect of hypoxia on the exosome release and migration activity of a panel of ovarian tumour cell lines that mimic different stages of the tumour. **ISEV2017, Toronto, Canada, 2107**

6. Shayna Sharma, **Mona Alharbi,** Katherin Scholz-Romero, Carlos Palma, Richard Kline, Katrina Wade, Jacob Estes, Andrew Lai, John Hooper, Gregory Rice and Carlos Salomon**. Ovarian cancer exosomes have the capacity to mediate the epithelial to mesenchymal transition in target cells. ISEV2017, Toronto, Canada, 2017**

7. **Mona Alharbi†,** Richard Kline, Katrina Wade, Jacob Estes, Carlos Palma, John Hooper, Gregory Rice, Salomon, Carlos. Role of exosomes in chemotherapy resistance during ovarian cancer progression**. The 64th Annual Meeting of the Society for Reproductive Investigation, in Orlando, FL, USA, 2017**

8. **Mona Alharbi†**, Yaowu He, Carlos Palma, Lewis Perrin, Gregory Rice, John Hooper, Carlos Salomon. Exosomes derived from ovarian cancer cell lines promote tumour growth in vivo**. 2017 Translational poster symposium, 2017, Brisbane, Australia.**

9. **Mona Alharbi†,** Yaowu He, Carlos Palma, Lewis Perrin, Gregory Rice, John Hooper, Carlos Salomon. Exosomes derived from ovarian cancer cell lines promote tumour growth in vivo**. Princess Alexandra Hospital health symposium, Brisbane, Australia, 2017**

10. **Mona Alharbi†,** Andrew Lai, Dominic Guanzon, Carlos Palma, Gregory Rice, John Hooper, Carlos Salomon. Identification of novel miRNAs and proteins markers of chemoresistance in Ovarian Cancer and their enrichment in exosomes**. ANGOG-Australia New Zealand Gynaecological Oncology Group, Brisbane, Australia, 2018**

11. **Mona Alharbi†,** Andrew Lai , Dominic Guanzon , Felipe Zuñiga , Yaowu He , John D Hooper, Carlos Salomon . Ovarian cancer cell invasiveness is associated with differential expression of proteins within exosomes that facilitate ovarian cancer tumor growth and metastasis in-vivo. **The 2018 Australasian Extracellular Vesicles Conference, University of Technology Sydney (UTS), Sydney, Australia.**

12. **Mona Alharbi†,** Andrew Lai, Yaowu He, Lewis Perrin, John D Hooper, Carlos Salomon. Ovarian cancer cell invasiveness regulates their exosomes which induce oncogenic potential and cancer progression in vivo. **The 65th Annual Meeting of the Society for Reproductive Investigation, in Paris, France, 2019**

13. **Mona Alharbi†,** Andrew Lai, Yaowu He, Felipe Zuñiga, John D Hooper, Carlos Salomon. Exosomes derived from differentially invasive ovarian cancer cells modulate tumour growth and metastasis in vivo. **ISEV2019, Kyoto, Japan, 2019.**

14. **Mona Alharbi†,** Dominic Guanzon , Andrew Lai , Alexis Salas, Carlos Palma, Katherin Scholz-Romero, Yaowu He, Lewis Perrin, Felipe Zuñiga , John D Hooper, Carlos Salomon. Novel Exosomal miRNAs-891-5p as an Indicator of Chemoresistance in Ovarian Cancer**. ISEV2019, Kyoto, Japan, 2019.**

15. **Mona Alharbi†,** Shayna Sharma, Dominic Guanzon, Andrew Lai, Terry Morgan, Lewis Perrin, John D. Hooper, Carlos Salomon. Integrative analysis of ovarian cancer cell behaviour reveals an exosomal miRNA signature associated with platinum resistance in ovarian cancer. **Thomas Ashworth CTC Conference (TAS2019), Sydney, Australia, 2019**

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