

Saeedah Musaed Almutairi

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Language skills

English and Arabic (spoken and written)

Education

2014 – 2020 PhD student, Program in Microbiology and Immunology
University of Ottawa, Ottawa, Ontario, Canada

2010 – 2013 MSc student, Master of Science, program in Medical Microbiology
University of Manitoba, Winnipeg, Manitoba, Canada
Overall GPA of 3.5/4

2003 – 2007 BSc student, Program in Botany and microbiology
King Saud University, Riyadh, Saudi Arabia
Overall GPA of 4.29/5 with the second-class honors degree

Publications

1. Abrar Ul Haq Khan*, **Saeedah Musaed Almutairi***, Alaa Kassim Ali, Rosalba Salcedo, Andrew Stewart and Seung-Hwan Lee. (2021) Expression of Nutrient Transporters on NK Cells during Murine Cytomegalovirus Infection is MyD88-Dependent. *Front Immunol.* **10**:3389. *Equal contribution.
2. Marianna Nacheff, Alaa Kassim Ali, **Saeedah Musaed Almutairi** and Seung-Hwan Lee. (2021) Targeting SLC1A5 and SLC3A2/SLC7A5 to strengthen anti-tumor immunity in the tumor microenvironment (review). *Front Immunol.* **10**:3389.
3. Asif Husain, Farah Iram, Anees A. Siddiqui, **Saeedah Musaed Almutairi**, Osama B Mohammed, Shah Alam Khan, Syed Najmul Hejaz Azmi and Nafisur Rahman. (2021) Identification of metabolic pathways involved in the biotransformation of eslicarbazepine acetate using UPLC-MS/MS, human microsomal enzymes and *in silico* studies. *Journal of King saud university- sciences.*101281

4. Alaa Kassim Ali, Amandeep Kaur Komal, **Saeedah Musaed Almutairi**, and Seung-Hwan Lee. (2019) Natural killer cell-derived IL-10 regulates T cell response to prevent liver damage during sustained murine cytomegalovirus infection. *Front Immunol.* **10**: 2688.
5. **Saeedah Musaed Almutairi***, Alaa Kassim Ali*, William He, Doo-Seok Yang, Peyman Ghorbani, Lisheng Wang, Morgan D Fullerton and Seung-Hwan Lee. (2019) Interleukin-18 up-regulates amino acid transporters and facilitates amino acid-induced mTORC1 activation in natural killer cells. *J Biol Chem.* **294**: 4644-4655. *Equal contribution (Article was selected to appear in a special virtual issue on “Immunometabolism” at *JBC* as part of the exciting advances in immunometabolism in 2019)

Oral presentations

1. **Saeedah Musaed Almutairi**, Alaa Kassim Ali, William He, Doo-Seok Yang, Peyman Ghorbani, Lisheng Wang, Morgan D. Fullerton, and Seung-Hwan Lee. IL-18 upregulates amino acid transporters and facilitates amino acid-induced mTORC1 activation in natural killer cells. At the CIACCO, May 2019.
2. **Saeedah Musaed Almutairi**, Alaa Kassim Ali, William He, Doo-Seok Yang and Seung-Hwan Lee. IL-18 upregulates nutrient transporters and facilitates amino acid-induced mTORC1 activation in natural killer cells. At 31th Annual spring Meeting of the Canadian Society for Immunology, June 2018.
3. **Saeedah Musaed Almutairi**, Alaa Kassim Ali, William He, Doo-Seok Yang and Seung-Hwan Lee. IL-18 upregulates nutrient transporters and facilitates amino acid-induced mTORC1 activation in natural killer cells. At The CIACCO, May 2018.
4. **Saeedah Musaed Almutairi**, Alaa Kassim Ali, and Seung-Hwan Lee. IL-18 increases nutrient transporter on natural killer that is essential for proliferation during infection. At the BMI Seminar Day, February 2018. **Won 3rd place**
5. **Saeedah Musaed Almutairi**, Alaa Kassim Ali, Mary-Ellen Harper, and Seung-Hwan Lee. The Role of Reactive Oxygen Species in Immune Cell Function. At The CIACCO, May 2017.
6. **Saeedah Musaed Almutairi**, Alaa Kassim Ali, Mary-Ellen Harper, and Seung-Hwan Lee. Reactive Oxygen Species as Signaling Molecules in Immunity. At 30th Annual spring Meeting of the Canadian Society for Immunology, April 2017.
7. **Saeedah Musaed Almutairi**, Alaa Kassim Ali, Mary-Ellen Harper, and Seung-Hwan Lee. Reactive Oxygen Species as Signalling Molecules in Immunity. At the BMI Seminar Day, May 2014.

Poster presentations

1. **Saeedah Musaed Almutairi**, Alaa Kassim Ali, William He, Doo-Seok Yang, Peyman Ghorbani, Lisheng Wang, Morgan D. Fullerton, and Seung-Hwan Lee. IL-18 upregulates amino acid transporters and facilitates amino acid-induced mTORC1 activation in natural killer cells. At 32th Annual spring Meeting of the Canadian Society for Immunology, April 2019.
2. **Saeedah Musaed Almutairi**, Alaa Kassim Ali, William He, Doo-Seok Yang and Seung-Hwan Lee. IL-18 upregulates nutrient transporters and facilitates amino acid-induced mTORC1 activation in natural killer cells. At 31th Annual spring Meeting of the Canadian Society for Immunology, June 2018.
3. **Saeedah Musaed Almutairi**, Alaa Kassim Ali, William He, Doo-Seok Yang and Seung-Hwan Lee. IL-18 upregulates nutrient transporters and facilitates amino acid-induced mTORC1 activation in natural killer cells. At the BMI symposium day, May 2018.
4. **Saeedah Musaed Almutairi**, Alaa Kassim Ali, and Seung-Hwan Lee. IL-18: A Key Cytokine Linking Metabolism to Immunity in Natural Killer Cells. At the BMI Seminar Day, May 2017. **Won 2nd place**
5. **Saeedah Musaed Almutairi**, Alaa Kassim Ali, Mary-Ellen Harper, and Seung-Hwan Lee. Reactive Oxygen Species as Signaling Molecules in Immunity. At 30th Annual spring Meeting of the Canadian Society for Immunology, April 2017.
6. **Saeedah Musaed Almutairi**, Alaa Kassim Ali, Mary-Ellen Harper, and Seung-Hwan Lee. Reactive Reactive oxygen species as signaling molecules in immunity. At the McGill University Research Center on Complex Traits (MRCCT), November 2016.
7. **Saeedah Musaed Almutairi**, Minjun Kim, Alaa Kassim Ali, and Seung-Hwan Lee. Metabolic reprogramming of IL-2 expanded NK cells by glutamine deprivation for cancer immunotherapy. At The CIACCO, May 2016. **Won 3rd place**
8. **Saeedah Musaed Almutairi**, Minjun Kim, Alaa Kassim Ali, and Seung-Hwan Lee. Metabolic reprogramming of IL-2 expanded NK cells by glutamine deprivation for cancer immunotherapy. At 29th Annual spring Meeting of the Canadian Society for Immunology, April 2016.
9. **Saeedah Musaed Almutairi**, Alaa Kassim Ali, Mary-Ellen Harper, and Seung-Hwan Lee. Reactive Reactive oxygen species as signaling molecules in immunity. At the BMI Poster Day, May 2015.

Experience:

March 2021– present

An editor of Cien Periodique Medicine journal (CPQ)

October 2020– present

I have been chosen to be a member in initiating a high diploma program called biological computing at King Saud university

September 2020– present

Member in different committees at king Saud university:

- Evaluation & accreditation Committee
- Laboratories & Safety Committee
- ISO- Committee
- Public Relations & Community Partnership Committee
- Vital education products

December 2020– Present

Assistant professor at king Saud university

July 2018– December 2020

Lecturer at king Saud university

June 2014– July 2018

Teaching assistant at king Saud university

Trainings

August 2014 – November 2019

Flow cytometry training, *Ottawa, Canada*

Animal care training, *Ottawa, Canada*

May 2007 – July 2007

Summer training at National Guards Hospital, *Riyadh, Saudi Arabia*

- Office Skills:
 - Entry and retrieval of patients' information in the computer database
 - Maintaining patient relations through information exchange
- Laboratory Skills:
 - Withdrawal of blood and analysis of blood samples

June 2006 – August 2006

Summer training at King Saud Chest Diseases hospital, *Riyadh, Saudi Arabia*

- Streaked samples (Urine and Ear, Throat, and Vaginal swabs)
- Prepared bacterial media (Blood and Chocolate agar)
- Gram staining
- Performed Antibiotics sensitivity tests
- Used Biochemical tests to identify bacterial strains

Honours and awards

2018 – 2019 Received International Doctoral Scholarship from the University of Ottawa

2018/02 Won third place as a presenter at the BMI seminar Day 2017 at uOttawa

2017/05 Won second place as a poster presenter at the BMI seminar Day 2017 at uOttawa

2016/05 Won third place as a poster presenter at on Cytokines in Inflammation, Ageing, Cancer and Obesity (CIACCO-2016)

2008 – 2013 King Abdullah Scholarship Program