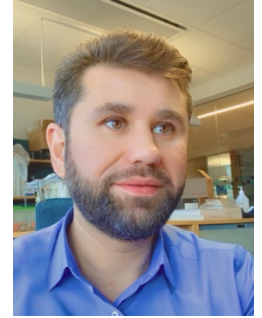


Academic Curriculum Vitae



Personal Information:

Full Name: Dara K. Mohammad
Academic Title: Assistant Professor
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Education:

1. PhD: Cancer Cell Signaling

Karolinska Institutet

June 2015

Sweden, Stockholm

- **Grade:** Distinction
- **Dissertation:** “*Role of AKT and 14-3-3 in the regulation of B cell receptor signaling and signalosome assembly*”
- **Coursework:** Antigen presentation and T cell activation, Pathology, Clinical Immunology, Cell Cycle and Apoptosis, Calcium signaling, Cellular signaling, Cancer and anti-cancer targets, Electron Microscopy in Cell Biology, Bioinformatics for Cell Biologists, Medical statistics and Proteomics by Mass spectrometry.
- Completed projects of signal transduction of B cell receptor (BCR) downstream pathways; High-scale affinity purification of BTK complexes in B-cells and identified protein-protein complexes using MS-MS proteomic technology.

2. Master of Science: Hematology

Salahaddin University-Erbil

August 2006

Erbil, Erbil Governorate

- **Grade:** Very good
- **Rank (1)** in a class of 10 students.
- **Thesis:** “*Effects of erythropoietin and growth hormone on hematological and biochemical parameters in 5/6 nephrectomized and cisplatin-induced anemic rats*”
- **Coursework:** Clinical Biochemistry, Physiology, Cell Biology, Clinical Hematology, Biostatistics and Immunocytochemistry

3. Bachelor of Science: Biology

July 2004

Salahaddin University-Erbil

Erbil, Erbil Governorate

- **Grade:** Very good
- **Rank (1)** in a class of 45 students.
- **Coursework:** Modern Biology, General Physics, Statistics, General Chemistry, Computer, Parasitology, Entomology, Invertebrates, Plant Anatomy & Taxonomy, Biochemistry, Microbiology, Histology & Embryology, Immunology, Hematology, Animal Physiology, Microtechnique, Plant Physiology, Ecology & Pollution, Mycology & plant pathology, Sewage Microbiology, Genetics, Medical Bacteriology, Cell Biology, Virology, Food & Industrial Microbiology, Molecular Biology and Endocrinology

Employment:

1. Assistant Professor

March 2021- Present

Salahaddin University-Erbil

Erbil, Erbil Governorate

- Lecture planning, preparation and research
- Contact and teaching time with students
- Checking and assessing students' work
- Invigilating examinations
- Attending staff meetings
- General administration
- Contributing to grant application
- Supervision of PhD and master students

2. Postdoctoral Research Scientist

June 2018 - August 2020

Karolinska Institutet, *Department of Medicine Huddinge.*

Sweden, Stockholm

- Running research projects
- Molecular biology laboratory manager
- Writing research proposals, papers and publications
- Reading academic journals

3. Research Specialist and Lecturer

December 2009- February 2021

Salahaddin University-Erbil

Erbil, Erbil Governorate

- Lecture planning, preparation and research
- Contact and teaching time with students
- Checking and assessing students' work
- Invigilating examinations

- Attending staff meetings
- General administration
- Contributing to grant application
- Supervision of master students

4. Director of Undergraduate Studies

September 2006 - January 2008

Salahaddin University-Erbil

Erbil, Erbil Governorate

- Prepared individualized lesson plans and educational materials to structure the biology curriculum to the needs of each student.
- Evaluated students' academic growth, kept appropriate records and prepared progress reports to gauge performance. Received and routed business correspondence to the correct departments and staff members.
- Assisted coworkers and staff members with tasks daily.
- Created and maintained detailed administrative processes and procedures to drive efficiency and accuracy.

5. Assistant Lecturer

September 2006- November 2009

Salahaddin University-Erbil

Erbil, Erbil Governorate

- Lecture planning, preparation and research
- Contact and teaching time with students
- Checking and assessing students' work
- Invigilating examinations
- Attending staff meetings

6. Biology Laboratory Teaching Assistant

August 2004

Salahaddin University-Erbil

Erbil, Erbil Governorate

- Kept classroom environments consistent and focused on learning by establishing and enforcing clear objectives.
- Assessed student comprehension through regular quizzes, tests and assignments.
- Assessed submitted class assignments, determined grades, and reviewed work with struggling students to boost success chances.

Qualifications

- Certificate of Web Course for Doctoral Supervisors, February 21, 2024. Karolinska Institutet, Stockholm, Sweden

- Promotion from lecturer to assistant professor on March 8, 2021, issued order no. 1/1/9805.
- Certificate of Radiation safety for 5 years, June 2020, Karolinska Institutet, Stockholm, Sweden.
- Certificate of Introductory Doctoral Supervision course, September 24-27, 2018. Karolinska Institutet, Stockholm, Sweden
- Certificate of Animal breeding and surgery (FELASA C), 2016, Karolinska Institutet
- Awarded the first-place prize for poster presentation at B cell-net conference, Sweden, Säröhus, 14-15 October 2011, Gothenburg.
- Awarded the PhD scholarship for 5 years (2010-2015) from the Ministry of Higher Education and Scientific Research-Erbil/Iraq.
- Promotion from Assistant lecturer to Lecture on December 8, 2009, issued order no. 1/1/6946 on 10/5/2010.
- Awarded a prize for master's degree (rank first), August 2006, from the Ministry of Higher Education and Scientific Research and Salahaddin University-Erbil, Erbil/Iraq.
- Certificate of university pedagogic methods, September 2006, Salahaddin University-Erbil, Erbil/Iraq.
- Awarded a prize for bachelor's degree (rank first), June 2004, from the Ministry of Higher Education and Scientific Research and Salahaddin University-Erbil, Erbil/Iraq.
- Certificate of Computer Training Course, Salahaddin University-Erbil, Erbil, Iraq. July 2005-August 2005.
- Certificate of Pedagogy and Teaching Methods, Salahaddin University-Erbil, Erbil, Iraq. September 2006-October 2006.
- Certificate of English Language Course, Salahaddin University-Erbil, Language Center, Erbil, Iraq. August 2004-September 2004

Teaching experience:

- Molecular and Cell Biology, Cancer Immunology, Biochemistry, Biotechnology, Hematology and Physiology.
- Supervised Three master's students and Three PhD students.
- Courses and training in:
 - 1. Molecular Biology:** Plasmid DNA preparations, total RNA preparations, cDNA libraries, Bioinformatics, Engineering EVs, DNA Primers Design, Restriction enzymes, RT-PCR, qPCR techniques, Agarose Gel Electrophoresis, DNA Sequencing, Site-Directed Mutagenesis techniques and Cloning.
 - 2. Cell Biology:** Mammalian Cell Cultures, Cell Counting, DNA and RNA Transfections, Lentiviral vector Production, Lentiviral Transduction, Cell Activation and Starvation, Cryo-Preservation,

Cell Fractionations, Immunoprecipitation Techniques, Immuno-Fluorescence Techniques, Flow Cytometry, ELISA, Confocal Microscopy, Various Cell Assays (Differentiation, Apoptosis, Viability, Motility, EVs uptake, Wound Healing and NK cell degranulation assay ...etc.).

3. **Biochemistry:** Protein Purifications with Chromatography Techniques, Gel Electrophoresis, Protein Phosphorylation (Serine, Threonine and Tyrosine), in vitro Kinase Assay and Western Blotting Techniques.
4. **Analytical:** Isolation, purification and measurement of Extracellular Vesicles (EVs) using ultracentrifuge, size exclusion chromatography (SEC), Nanoparticle tracking analysis (NTA), Tangential Flow Filtration (TFF)
5. **Animal breeding & surgery:** Obtained FELASA certificate, completed the full training on Rats and Mic; for example, handling, restraining, injections, Biopsy, blood collection, euthanasia and various surgeries (Splenectomy, Nephrectomy, Pinealectomy...etc.).

Research and publications

- Bestas B, Estupiñán HY, Wang Q, Kharazi S, He C, **Dara K. Mohammad**, Gupta D, Wiklander OPB, Lehto T, Lundin KE, Berglöf A, Karlsson MCI, Abendroth F, El Andaloussi S, Gait MJ, Wood MJA, Leumann CJ, Stetsenko DA, Månsson R, Wengel J, Zain R, Smith CIE. Cell-penetrating peptide-conjugated, splice-switching oligonucleotides mitigate the phenotype in BTK/Tec double deficient X-linked agammaglobulinemia model. *RSC Chem Biol.* 2025 Mar 31;6(5):761-771. doi: 10.1039/d4cb00312h. PMID: 40171248
- Hamasy A, Hussain A, **Dara K. Mohammad**, Wang Q, Sftcovici M.G, Nore B.F, Mohamed A. J, Zain R, Smith C. I. E. Differential regulatory effects of the N-terminal region in SYK-fusion kinases reveal unique activation-inducible nuclear translocation of ITK-SYK. *Sci Rep.* 2025 Jan 4;15(1):814. doi: 10.1038/s41598-024-83962-8. PMID: 39755731.
- Mamand DR, Bazaz S, **Dara K. Mohammad**, Liang X, Pavlova S, Mim C, Gabrielsson S, Nordin JZ, Wiklander OPB, Abedi-Valugerdi M, El-Andaloussi S. Extracellular vesicles originating from melanoma cells promote dysregulation in haematopoiesis as a component of cancer immunoediting. *J Extracell Vesicles.* 2024 Jul;13(7): e12471. doi: 10.1002/jev2.12471. PMID: 38944672; PMCID: PMC11214607.
- Saeed RH, Faqe Ahmed Abdulrahman Z, **Dara K. Mohammad**. Exploring the interplay between microRNA expression and DNA mutation analysis in AML patients. *Saudi J Biol Sci.* 2024 Jul;31(7):104027. doi: 10.1016/j.sjbs.2024.104027. Epub 2024 May PMID: 38831894; PMCID: PMC11145380.

- Saeed RH, Abdulrahman ZFA, **Dara K. Mohammad**. The impact of COVID-19 on microRNA and CD marker expression in AML patients. *Sci Rep*. 2024 Jun 20;14(1):14251. doi:10.1038/s41598-024-64775-1. PMID: 38902412; PMCID: PMC11190249.
- Oscar Wiklander[#], Doste Mamand[#], **Dara K. Mohammad**, Wenyi Zheng, Rim Jawad-Wiklander, Antje Zickler, Dhanu Gupta, Xiuming Liang, Heena Sharma, Andrea Lavado, Jeremy Bost, Giulia Corso, Angus Lennaárd, Manuchehr Abedi-Valugerdi, Imre Mäger, Joel Nordin, Andre Gorgens, Taras Sych, Erdinc Sezgin, Samantha Roudi, Evren Alici, Samir El-Andaloussi. Antibody-displaying extracellular vesicles for targeted cancer therapy. *Nature Biomedical Engineering*. 2024 May 20. doi: 10.1038/s41551-024-01214-6. Online ahead of print. PMID: 38769158
- Doste R. Mamand[#], Safa Bazaz[#], **Dara K. Mohammad**[#], Osama Saher, Oscar PB Wiklander, Behnam Sadeghi, Moustapha Hassan, Samir El-Andaloussi, Manuchehr Abedi-Valugerdi. Tumor cell derived osteopontin and prostaglandin E2 synergistically promote the expansion of myeloid derived suppressor cells during the tumor immune escape phase. *International Immunopharmacol*. 2024 Mar 10;129:111584. doi: 10.1016/j.intimp.2024.111584. Epub 2024 Feb 15.
- Prevalence, years lived with disability, and trends in anaemia burden by severity and cause, 1990–2021: findings from the Global Burden of Disease Study 2021. GBD 2021 Anaemia Collaborators. *Lancet Haematol*. 2023 Sep;10(9):e713-e734. doi: 10.1016/S2352-3026(23)00160-6. Epub 2023 Jul 31.
- Schmied L, Luu TT, Søndergaard JN, Hald SH, Meinke S, **Dara K. Mohammad**, Singh SB, Mayer C, Perinetti Casoni G, Chrobok M, Schlums H, Rota G, Truong HM, Westerberg LS, Guarda G, Alici E, Wagner AK, Kadri N, Bryceson YT, Saeed MB, Höglund P. SHP-1 localization to the activating immune synapse promotes NK cell tolerance in MHC class I deficiency. *Sci Signal*. 2023 Apr 11;16(780):eabq0752. doi:10.1126/scisignal.abq0752. Epub 2023 Apr 11. PMID: 37040441.
- Rasul KH, Hussain A, Reilly H, Karvouni M, Dahlberg CIM, Al-Attar MS, Wagner AK, Alici E, **Dara K. Mohammad**. Assessment of T Cell Receptor Complex Expression Kinetics in Natural Killer Cells. *Curr Issues Mol Biol*. 2022 Aug 25;44(9):3859-3871. doi: 10.3390/cimb44090265. PMID: 36135177; PMCID: PMC9497757.
- Ishaq S, Rasheed T, **Dara K. Mohammad**. Impact of persistent antigenic challenges and splenectomy on immune cells in β -Thalassemic patients. *ZANCO Journal of Pure and Applied Sciences*. 2022, 34(4): 116-122. ISSN (print):2218-0230, ISSN (online): 2412-3986. DOI:http://dx.doi.org/10.21271/zjpas
- Görgens A, Corso G, Hagey DW, Jawad Wiklander R, Gustafsson MO, Felldin U, Lee Y, Bostancioglu RB, Sork H, Liang X, Zheng W, **Dara K. Mohammad**, van de Wakker SI, Vader

P, Zickler AM, Mamand DR, Ma L, Holme MN, Stevens MM, Wiklander OPB, El Andaloussi S. Identification of storage conditions stabilizing extracellular vesicles preparations. *J Extracell Vesicles*. **2022** Jun;11(6):e12238. doi:10.1002/jev2.12238. PMID: 35716060; PMCID: PMC9206228.

- Global, regional, and national burden of diseases and injuries for adults 70 years and older: systematic analysis for the Global Burden of Disease 2019 Study. GBD 2019 Ageing Collaborators. *BMJ*. **2022** Mar 10;376: e068208. doi:10.1136/bmj-2021-068208. PMID: 35273014; PMCID: PMC9316948.
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- Global, regional, and national mortality among young people aged 10-24 years, 1950-2019: a systematic analysis for the Global Burden of Disease Study 2019. GBD 2019 Adolescent Mortality Collaborators. *Lancet*. 2021 Oct 30;398(10311):1593-1618. doi: 10.1016/S0140-6736(21)01546-4. Epub 2021 Oct 28. Erratum in: *Lancet*. 2022 Feb 26;399(10327):802. PMID: 34755628; PMCID:PMC8576274.
- Anemia prevalence in women of reproductive age in low- and middle-income countries between 2000 and 2018. Local Burden of Disease Anaemia Collaborators. *Nat Med*. 2021 Oct;27(10):1761-1782. doi: 10.1038/s41591-021-01498-0. Epub **2021** Oct 12. PMID: 34642490; PMCID: PMC8516651.
- Gupta D, Wiklander OPB, Görgens A, Conceição M, Corso G, Liang X, Seow Y, Balusu S, Feldin U, Bostancioglu B, Jawad R, Mamand DR, Lee YXF, Hean J, Mäger I, Roberts TC, Gustafsson M, **Dara K. Mohammad**, Sork H, Backlund A, Lundin P, de Fougerolles A, Smith CIE, Wood MJA, Vandenbroucke RE, Nordin JZ, El-Andaloussi S. Amelioration of systemic inflammation via the display of two different decoy protein receptors on extracellular vesicles. *Nat Biomed Eng*. 2021 Sep;5(9):1084-1098. doi: 10.1038/s41551-021-00792-z. Epub **2021** Oct 6. PMID:34616047.
- Luu TT, Schmieid L, Nguyen NA, Wiel C, Meinke S, **Dara K. Mohammad**, Bergö M, Alici E, Kadri N, Ganesan S, Höglund P. Short-term IL-15 priming leaves a long-lasting signalling imprint in mouse NK cells independently of a metabolic switch. *Life Sci Alliance*. **2021** Feb 16;4(4):e202000723. doi: 10.26508/lsa.202000723. PMID: 33593878; PMCID: PMC7918643.

- Estupiñán HY, Wang Q, Berglöf A, Schaafsma GCP, Shi Y, Zhou L, **Dara K. Mohammad**, Yu L, Vihinen M, Zain R, Smith CIE. BTK gatekeeper residue variation combined with cysteine 481 substitution causes super-resistance to irreversible inhibitors acalabrutinib, ibrutinib and zanubrutinib. *Leukemia*. 2021 May;35(5):1317-1329. doi: 10.1038/s41375-021-01123-6. Epub 2021 Feb 1. PMID: 33526860.
- Qader G, Aali M, Smail SW, Mahmood K, Hasan B, M-Amen K, Rahman DB, Qadir FA, **Dara K. Mohammad**, Najmuldeen HH, Rahman FM, Ahmad SI, Salih NS, Khdhr ZM, Mohammed BA, Majeed AM, Hasan XM, Khidhir BH, Muhammad ES, Muhamadsalih BA, Hasan SK, Hamad AJ, Esmail ZK, Ismael CM, Husaen SM, Abdulla CA, Hussen BM, Housein Z, Shekha M, Salihi A. Cardiac, Hepatic and Renal Dysfunction and IL-18 Polymorphism in Breast, Colorectal, and Prostate Cancer Patients. *Asian Pac J Cancer Prev*. 2021 Jan 1;22(1):131-137. doi: 10.31557/APJCP.2021.22.1.131. PMID: 33507690.
- Global Burden of Cardiovascular Diseases and Risk Factors, 1990-2019: Update From the GBD 2019 Study. *J Am Coll Cardiol*. 2020 Dec 22;76(25):2982-3021. doi: 10.1016/j.jacc.2020.11.010. PMID: 33309175; PMCID: PMC7755038.
- Mapping routine measles vaccination in low- and middle-income countries. *Nature*. 2020 Dec 16:1–10. doi: 10.1038/s41586-020-03043-4. Epub ahead of print. PMID: 33328634; PMCID: PMC7739806.
- Global burden of 87 risk factors in 204 countries and territories, 1990-2019: a systematic analysis for the Global Burden of Disease Study 2019. *Lancet*. 2020 Oct 17;396(10258):1223-1249. doi:10.1016/S0140-6736(20)30752-2. PMID: 33069327; PMCID: PMC7566194.
- Govand Qader, Mukhlis Aali, Karwan M Amen, Kazhan Mahmood, Bestoon Hasan, Mudhir Shekha, **Dara K. Mohammad**, Hastyar H Najmuldeen, Dler Mahmood, Farhang A Awla, Karzan A Mohammed, Abbas Salihi. The status of cancer publications in the Kurdistan region of Iraq. *Journal of Cancer Policy* 24, 2020, 100221.
- Global burden of 369 diseases and injuries in 204 countries and territories, 1990-2019: a systematic analysis for the Global Burden of Disease Study 2019. *Lancet*. 2020 Oct 17;396(10258):1204-1222. doi: 10.1016/S0140-6736(20)30925-9. Erratum in: *Lancet*. 2020 Nov 14;396(10262):1562. PMID: 33069326; PMCID: PMC7567026.
- Global age-sex-specific fertility, mortality, healthy life expectancy (HALE), and population estimates in 204 countries and territories, 1950-2019: a comprehensive demographic analysis for the Global Burden of Disease Study 2019. *Lancet*. 2020 Oct 17;396(10258):1160-1203. doi: 10.1016/S0140-6736(20)30977-6. PMID: 33069325; PMCID: PMC7566045.

- Five insights from the Global Burden of Disease Study 2019. *Lancet*. **2020** Oct 17;396(10258):1135-1159. doi:10.1016/S0140-6736(20)31404-5. PMID: 33069324; PMCID: PMC7116361.
- Measuring universal health coverage based on an index of effective coverage of health services in 204 countries and territories, 1990-2019: a systematic analysis for the Global Burden of Disease Study 2019. *Lancet*. 2020 Oct 17;396(10258):1250-1284. doi:10.1016/S0140-6736(20)30750-9. Epub **2020** Aug 27. PMID: 32861314; PMCID: PMC7562819.
- Mapping local patterns of childhood overweight and wasting in low- and middle-income countries between 2000 and 2017. *Nat Med*. 2020 May;26(5):750-759. doi: 10.1038/s41591-020-0807-6. Epub 2020 Apr 20. Erratum in: *Nat Med*. 2020 Jul 2;: PMID: 32313249; PMCID: PMC7220891.
- Global, regional, and national burden of chronic kidney disease, 1990-2017: a systematic analysis for the Global Burden of Disease Study 2017. *Lancet*. **2020** Feb 29;395(10225):709-733. doi: 10.1016/S0140-6736(20)30045-3. Epub 2020 Feb 13. PMID: 32061315; PMCID: PMC7049905.
- Amin R, He R, Gupta D, Zheng W, Burmakin M, **Dara K. Mohammad**, DePierre JW, Sadeghi B, Olauson H, Wernerson A, El-Andaloussi S, Hassan M, Abedi-Valugerdi M. The kidney injury caused by the onset of acute graft-versus-host disease is associated with down-regulation of α Klotho. *Int Immunopharmacol*. 2020 Jan; 78:106042. doi: 10.1016/j.intimp.2019.106042. PubMed PMID: 31812067.
- Mapping 123 million neonatal, infant and child deaths between 2000 and 2017. *Nature*. 2019 Oct;574(7778):353-358. doi: 10.1038/s41586-019-1545-0. PubMed PMID: 31619795.
- Global, Regional, and National Cancer Incidence, Mortality, Years of Life Lost, Years Lived with Disability, and Disability-Adjusted Life-Years for 29 Cancer Groups, 1990 to 2017: A Systematic Analysis for the Global Burden of Disease Study. *JAMA Oncol*. **2019** Sep 27. doi:10.1001/jamaoncol.2019.2996. PubMed PMID: 31560378.
- The global burden of childhood and adolescent cancer in 2017: an analysis of the Global Burden of Disease Study 2017. *Lancet Oncol*. 2019 Sep;20(9):1211-1225. doi:10.1016/S1470-2045(19)30339-0. Epub 2019 Jul 29. Erratum in: *Lancet Oncol*. **2019** Aug 6;: PMID: 31371206; PMCID: PMC6722045.
- Narmeen N. Fathi, **Dara K. Mohammad**, Andre Görgens, Samir El-Andaloussi, Rula Zain, Beston F. Nore and C. I. Edvard Smith. Translocation-generated ITK-FER and ITK-SYK fusions induce STAT3 phosphorylation and CD69 expression. *Biochem Biophys Res Commun*. **2018** Oct 12;504(4):749-752.
- Oscar P. B. Wiklander, R. Beklem Bostancioglu, Giulia Corso, Ulrika Felldin, Manuela O. Gustafsson, **Dara K. Mohammad**, Constanze Wiek, Helmut Hanenberg, Michel Bremer, Dhanu

Gupta, Mikael Björnstedt, Bernd Giebel, Joel Z. Nordin, Jennifer C. Jones, Samir EL Andaloussi and André Görgens. Systematic Methodological Evaluation of a Multiplex Bead-Based Flow Cytometry Assay for Detection of Extracellular Vesicle Surface Signatures. *Frontiers in Immunology*. **2018** June 13. doi: 10.3389/fimmu.2018.01326.

- **Dara K. Mohammad**, Beston F. Nore, C. I. Edvard Smith. Terminating B cell receptor signaling. *Oncotarget*. **2017** Dec 6;8(66):109857-109858.
- **Dara K. Mohammad**. PRIMA-1 Induces Apoptosis of Leukemic Cells via Inhibiting Bruton's Tyrosine Kinase. *Cukurova Med J*, **2017**; 42 (1):1-12.
- Manuela O. Gustafsson, **Dara K. Mohammad**, Erkkö Ylösmäki, Hyunseok Choi, Subhash Shrestha, Qing Wang, Beston F. Nore, Kalle Saksela, C. I. Edvard Smith. ANKRD54 preferentially selects Bruton's Tyrosine Kinase (BTK) from a Human Src-Homology 3 (SH3) Domain Library. *PLoS One*, **2017**. Apr 3;12(4): e0174909.
- Abdulrahman Hamasy, Qing Wang, **Dara K. Mohammad**, Emelie Blomberg, Liang Yu, Mauno Vihinen, Anna Berglöf, and C. I. Edvard Smith. Substitution scanning identifies a novel, catalytically active ibrutinib-resistant BTK cysteine 481 to threonine (C481T) variant. *Leukemia*, **2017**.31: p. 177-185.
- **Dara K. Mohammad**, Beston F. Nore, Manuela O. Gustafsson, Abdalla J. Mohamed and C. I. Edvard Smith. Protein kinase B (AKT) regulates SYK activity and shuttling through 14-3-3 and importin 7. *Int J Biochem Cell Biol*, **2016**, 78: p. 63-74.
- **Dara K. Mohammad**, Raja H. Ali, Janne J. Turunen, Beston F. Nore and C. I. Edvard Smith. B Cell Receptor Activation Predominantly Regulates AKT-mTORC1/2 Substrates Functionally Related to RNA Processing. *PLoS One*, **2016**. 11 (8): p. e0160255.
- Dina Ali, **Dara K. Mohammad**, Huthayfa Mujahed, Kerstin Jonson-Videsäter, Beston F. Nore, Christer Paul and Sören Lehmann. Anti-leukaemic effects induced by APR-246 are dependent on induction of oxidative stress and the NFE2L2/HMOX1 axis that can be targeted by PI3K and mTOR inhibitors in acute myeloid leukaemia cells. *Br J Haematol*, **2016**, 174 (1): p. 117-26.
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- **Dara K. Mohammad**, Beston F. Nore, Alamdar Hussain, Manuela O. Gustafsson, Abdalla J. Mohamed and C. I. Edvard Smith. Dual phosphorylation of BTK by AKT/PKB Provides

Docking For 14-3-3 ζ , Regulates Shuttling and Attenuates both Tonic and Induced Signaling in B Cells. *Molecular and Cellular Biology*, **2013**,33, p. 3214-3226.

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- Manuela O. Gustafsson, Alamdar Hussain, **Dara K. Mohammad**, Abdalla J. Mohamed, Vivian Nguyen, Metalnikov, P., Colwill, K., Tony Pawson, C. I. Edvard Smith and Beston F. Nore. Regulation of nucleocytoplasmic shuttling of Bruton's tyrosine kinase (BTK) through a novel SH3-dependent interaction with ankyrin repeat domain 54 (ANKRD54). *Molecular and Cellular Biology*, **2012**,32, p. 2440-2453.
- Alamdar Hussain, Liang Yu, Rany Faryal, **Dara K. Mohammad**, Abdalla J. Mohamed and C. I., Edvard Smith. TEC family kinases in health and disease loss-of-function of BTK and ITK and the gain-of-function fusions ITK-SYK and BTK-SYK. *The FEBS Journal*, 2011, 278, p.2001-2010.
- **Dara K. Mohammad**. Effect of Hemodialysis and peritoneal dialysis on some hematological and biochemical parameters in renal failure. **2009**, Zanco Journal of Medical Sciences (Zanco J Med Sci) 13 (2), 79-85.
- **Dara K. Mohammad** and Jamal M Aziz. Effects of erythropoietin and growth hormone on hematological and biochemical parameters in 5/6 nephrectomized male abino rats. *Journal of Duhok University*, **2009**, 12; 1, 146-160.

Equally contributed.

Conferences and courses attended

- B cell-net, Sweden, Säröhus, 14-15 October 2011, Gothenburg, (Poster presentation)
- Future of science and medicine - NOV2k science symposium, 8-9 November 2012, Stockholm, Sweden- (Poster presentation)
- B cell development and function, Keystone conference, 10-15 February 2013, Colorado, USA- (Poster presentation).
- 15th International Congress of Immunology-ICI, 22-27 August 2013, Milano, Italy (Poster presentation).
- Swedish Exosome Network meeting at Skogshem & Wijk, 21-22 November 2016, Stockholm, Sweden.

- Danish Society for Extracellular Vesicles (DSEV), 1st Annual Symposium. 3-4 October 2019, Aarhus, Denmark.
- 1st International Conference on Climate Change Action - Challenges and Solutions (ICCCSUE), 8-9 April 2025, Saad Abdullah Hall-Erbil.

Funding and academic awards

- Received a PhD scholarship from the Ministry of Higher Education and Scientific Research, KRG, Erbil-Iraq (2010-2015)
- Karolinska Institutet travel grant to B cell development and function, Keystone Conference, Colorado, USA, 10-15 Feb 2013

Professional memberships

- Scientific Consultant at VycellixTM, Inc
- Member of Society for Natural Immunity (SNI)
- GBD Collaborator, Institution of Health Metrics and Evaluation, University of Washington, Washington, USA
- Member of Kurdistan Biology Syndicate
- Member of Kurdistan Teachers Union
- Member of Kurdistan General Workers Syndicate
- Member of the Swedish EV Network
- Member of the Danish Society for Extracellular Vesicles

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