

Curriculum Vitae

1. Full name and date:

Surname: Mohammed

Given Names: Ali Mustafa

Date of writing the CV: 3/05/2022

2. Date and place of birth, nationality, current residence:

Date and place of birth: 14/09/1983, Mosul-Iraq.

Citizenship: Iraqi.

Current residence: Särkinimentie 18 A9, 70700, Kuopio, Finland

Current work address: University of Eastern Finland, School of Pharmacy

P.O. Box 1627, 70211 Kuopio, Finland

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3. Education and degrees awarded:

Degree title: Ph.D. (Pharmacy; Toxicology)

Educational institute: University of Eastern Finland.

Major subject: Toxicology

Dissertation date: 31/10/2020.

Graduation date: 01/2/2021

Degree title: Master's degree in Science (M.Sc.)

Educational institute: University of Eastern Finland.

Major subject: General Toxicology

Graduation date: 13/10/2011

Qualification awarded: Pharmacy Licenses.

Institute provided it: Kurdistan syndicate of Pharmacy, Duhok, Kurdistan region, Iraq (Issued at: 01/11/2014), and Libyan pharmacy syndicate (Issued at: 10/2006).

Degree title: Bachelor's degree (BSc.)

Educational institute: Garyounis University, Benghazi, Libya.

Major subject: Pharmacy

Graduation date: 27/07/2006

Degree title: General Certificate of Education (High School)

Educational institute: Geel Al-Ghadhab Secondary School (High School), Ministry of education, Libya.

Graduation date: 10/07/2001

4. Other education and training, qualifications and skills.

Name of the educational training: NMR and Mass Spectroscopy in bioanalytics.

Organizer: School of Pharmacy/Pharmaceutical chemistry, Faculty of Health Sciences, University of Eastern Finland.

Date of education: May-2015

Skills acquired: Acquire knowledge about the principles of NMR and mass spectroscopy, how to use the instruments and machine. Interpretation of one and two dimensional ¹H and ¹³C NMR spectra and mass spectra. Obtain information on the uses and applications of NMR and mass spectroscopy in pharmacy and biosciences. Learns how to use HPLC-MS for analysis of drugs and phyto-compounds. Gain insights into proteomics and metabolites and interpret related data.

Name of the educational training: "Effective communication with patients" workshop.

Organizer: Sandoz-Novartis.

Date of education: 01/04/2014

Skills acquired: communication skills, body language and signs, active dialogue, active listening and positive responding to patient inquiries and symptoms.

Name of the educational training: Study methodology and teaching skills (pedagogy).
Organizer: University of Duhok
Date of education: 01/12/2013-18/01/2014
Skills acquired: Teaching and communication skills for academic levels.

Name of the educational training: Sandoz Selling Excellence
Organizer: Sandoz, Egypt branch, Novartis group, Switzerland
Date of education: 11-16/02/2012.
Skills acquired: selling skills, medical materials marketing and promotion and leadership's skills

Name of the educational training: A certificate in C-category (Competence course for scientists using animals in research).
Accredited by EU.
Organizer: Lab Animal Center, University of Eastern Finland
Date of education: February-2010
Skills acquired: Skills on how to use and handle animals at research centers.

Other skills:

I. Research skills:

1. Cell culture techniques: handling of human tissues (e.g., human placenta), maintaining cultured placental tissues and human cancer cells. Media preparation for cell culture and *ex vivo* placental perfusion. Sub-culturing and treatment of cells. Analysis of samples using LC-MS. Preparation of villous explants from term placentas.
2. Cell biology techniques: Preparation of tissues fractions (microsomes and cytosols) human placental tissues.
3. EX vivo human placental perfusion.
4. Toxicity testing techniques: cell viability measurement and assays (cytotoxicity) such as propodium iodide-digtonin assay. Enzyme activities assays such as aromatase, EROD (cytochrome P450). Enzyme inhibitory.
5. Molecular biology techniques: Protein determination assays.

II. Animal lab experience: handling of experimental animals *Computer skills:* excellent at Microsoft word and excel, Refworks and Photoshop.

III. Driving license type B from Libya and Finland.

5. Current position:

Title of position: Teaching.
Employer: Department of Pharmacology and Toxicology, Faculty of Pharmacy, University of Duhok, Kurdistan, Iraq.
Place of work: Duhok, Kurdistan.
Date of employment: 2011.
Job description: Teaching undergraduate pharmacy students.

6. Previous work and experience:

Title of position: Project research
Employer: Toxicology/School of Pharmacy, Faculty of Health sciences, University of Eastern Finland.
Place of work: Toxicology /School of Pharmacy, Faculty of health sciences, University of Eastern Finland, Kuopio, Finland.

Title of the job/position: Early-stage researcher (Ph.D. student).
Employer: Graduate school. Drug research programme. Faculty of Health sciences, UEF.
Place of work: Toxicology/School of Pharmacy. Faculty of health sciences. UEF.
Date of employment: 1/10/2016-31/12/2020.
Job description: study related research and teaching responsibilities.

Title of the job: Assistant lecturer.
Employer: University of Duhok, Ministry of Higher Education.
Place of work: Department of Pharmacology and Toxicology, College of Pharmacy, University of Duhok
Date of employment: 01/02/2012 to 10/11/2015
Job description: Lecturer in General Toxicology, Clinical Toxicology and Data Informatics for pharmacy students. I am also responsible for the laboratory part of toxicology courses in College of Pharmacy. I'm a member of "educational

evaluation committee”. For organizing timetable and curriculum of courses. I was in charge of exam control committee of college Pharmacy and supervisor of undergraduate projects of fifth year-pharmacy students (spring 2012-spring 2015).

Job: Medical delegate. Part-time job.

Employer: Iraq-branch, Sandoz. Novartis.

Place of work: Kurdistan region from 10/02/2012 to 01/08/2014

Job Description: is five days a week, from 3pm – 10pm. Promotion for medical products by organizing scientific meetings, symposiums and conferences and visiting physicians, pharmacists and dentists.

Job Description: managing and training pharmacy staff. Dispensing medications. Instruct patients on how to use and take medication properly. Keeping records of sales and follow up stock’s availabilities. Meeting medical delegates and attending symposium of pharmacy syndicate.

Job: Retail and community pharmacist

Place of work: Private pharmacies, Benghazi, Libya from 7/2006 to 8/2009 (three years).

7. Language skills:

- I. English (proficient)
- II. Arabic (native)
- III. Swedish (A1)
- IV. Kurdish (A1)

8. List of publications:

1. Ali Mustafa Mohammed, Heidi Sahlman, Kirsi Vähäkangas. 2021. The significance of ABC transporters in human placenta for the exposure of the fetus to xenobiotics. Reproductive and developmental toxicology by Gupta, 3rd edition. Chapter 67 of Reproductive and Developmental Toxicology by Gupta 3rd edition. Academic press, Elsevier.
2. Ali Mustafa Mohammed, 2020, Toxicokinetics and toxicity related mechanisms of xenobiotics in human placenta. University of Eastern Finland. Doctoral dissertation.
3. Ali Mustafa Mohammed, Marjo Huovinen, Kirsi H Vähäkangas. 2020. Toxicity of diuron metabolites in human placenta. Environ Toxicol Pharmacol. 78:103409. doi: 10.1016/j.etap.2020.103409. Epub 2020 May 19
4. Ali Mustafa Mohammed, Pasi Huuskonen, Risto Juvonen, Heidi Sahlman, Jenni Repo, Kirsi Myöhänen, Päivi Myllynen, Chit-Shing Jackson Woo, Vesa Karttunen, Kirsi Vähäkangas. 2020. Activities of metabolizing enzymes in human placenta. Toxicol Lett. 15;326:70-77. doi: 10.1016/j.toxlet.2020.02.014. Epub 2020 Feb 27.
5. Ali Mustafa Mohammed, Vesa Karttunen, Huuskonen Pasi, Marjo Huovinen, Seppo Auriola, Kirsi Vähäkangas. 2018. Transfer and metabolism of diuron in human placenta. Toxicology letter,
6. Vesa Karttunen, Ali Mustafa Mohammed, Kirsi Vähäkangas. 2016. The significance of ABC transporters in human placenta for the exposure of the fetus to xenobiotics, Chapter 79 of reproductive and developmental toxicology by Gupta, 2nd edition. Academic press, Elsevier.
7. Mohammed A. M. (2011), Methods to study human placental functions. University of Eastern Finland. (*Master thesis*).
8. Transdermal drug delivery system: transdermal patches. (2006). Library of Faculty of Pharmacy, University of Garyounis, Benghazi, Libya (*Undergraduate research project*).

9. Research funding as well as leadership and supervision:

I was a member of the organizing board of FinPharmaNet meeting, 2018, in Kuopio. I was also a chair of one of the sessions for the meeting.

I organized a conference “Facts and challenges about Antibiotics resistance” for Novartis Company in the University of Duhok 14/05/2014. I have also been a member of organizing committee of FinPharm meeting in Kuopio on 14-15/08/2017.

Supervision:

I supervised the following master’s degree student in toxicology program, University of Eastern Finland.

1. Salma Nuzhat graduated in 2019.
2. Ahmed Tawfeq graduated in 2020.
3. Mina Yacob graduated in 2020.

I was also examiner (evaluator) for theses of four master’s degree students from master’s degree program on General Toxicology, University of Eastern Finland.

1. Rabia Jehangir
2. Catherine Ngwengeh
3. Ahsan Ijaz Khan
4. Elham Gharib.

I was also a supervisor of seven pharmacy students (undergraduates).

1. Helen Hana Shaba, BSc Pharmacy, undergraduate research project, University of Duhok, 2014.
2. Merna Abdullah Benjamin, BSc Pharmacy, undergraduate research project University of Duhok, 2014.
3. Salam Saad Yousif, BSc Pharmacy, undergraduate research project University of Duhok, 2014.
4. Fetyan Hana Jijo, BSc Pharmacy, undergraduate research project University of Duhok, 2014.
5. Anwar Omer Dawood, BSc Pharmacy, Undergraduate research project, University of Duhok, 2015.
6. Dlower Alias Merza, BSc Pharmacy, Undergraduate research project, University of Duhok, 2015.
7. Marwan Ali Hassan, BSc Pharmacy, Undergraduate research project, University of Duhok, 2015.

Grants:

1. I was employed by the University of Eastern Finland for Aurora project (nano- and microplastic project) funded by EU as a part of Horizon 2020 grant.
2. I was employed by the University of Eastern Finland for a project funded partly by Gilead, US. from 1.1.2021 to 31.12.2021.
3. I was employed by Prof. Kirsi Vähäkangas’ research group for three months from 01.10.2016 to 31.12.2016).
4. Personal grant from Orion pharma 01.03.2016 for PhD study and related research.
5. I have also obtained a position from the graduate school, University of Eastern Finland for three years starting from 01.01.2017 to 31.12.2019.
6. I also obtained two travel grants (€500 X 2) from Lääketutkimussäätiö in 2018 and 2019 for participating in EuroTox 2019 in Helsinki and human placenta perfusion meeting in Netherlands.
7. I was also awarded with a travel bursary from Björn Ekwall Memorial Award. Sweden (€300) on October-2018.
8. Finnish Pharmaceutical Society has also granted €640 for attending EuroTox 2019.
9. Kuopio University Foundation awarded 2000 euros for completing PhD study.

Teaching experiences and duties:

- I. I participated in the research day organized by the Faculty of Health sciences, UEF, oral presentation, 2019.
- II. I have been involved in teaching of the following courses (for Master's Degree Programme in General Toxicology) Expertise for science-based chemical risk assessment in the University of Eastern Finland. Toxicology of compounds, Toxicity testing, Regulatory toxicology, and Clinical toxicology.
- III. I was also a teacher in advanced toxicology risk assessment course. I supervised one student in 2018 and two students in 2019 for their risk assessment reports.
- IV. I was a lecturer of general toxicology for 4th year Pharmacy students (2012 to 2015), College of Pharmacy, University of Duhok. The courses includes two parts, 25% practical and 75% theory (3 hours a week, spring semester).
- V. Lecturer of clinical toxicology for 5th year Pharmacy students from (2013-2015), College of Pharmacy, University of Duhok. The course is divided into 25% clinical practice in emergency units of public hospitals and 75% teaching (Theory) (3 hours a weeks for 10 weeks, autumn semester).

- VI. Lecturer of data informatics for 3rd year Pharmacy students from (2013-2014), College of Pharmacy, University of Duhok (1 hour a week for 10 weeks, spring semester).
- VII. Lecturer of Pharmacoeconomics for 2nd year Pharmacy students from 2013-2015), College of Pharmacy, University of Duhok (2hours a week for 10 weeks, Autumn semester).

Other academic merits:

- I was the head of examination steering board of pharmacy college, University of Duhok for three years (2012-2015 and 2022). The main tasks of the committee were preparing questions papers, exam textbooks and organizing exam venues and timetables. Additionally, the committee is responsible for announcement of student's scores and receives and review appeals from students.