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Personal information

- **Name :** Saffanah Khuder Mahmood
- **Date of birth:** 01/08/1976
- **Place of birth:** Mosul-Iraq
- **Sex:** Female
- **Nationality:** Iraqi
- **Marital status:** Single
- **No. of children: /**

Academic information

- **Address:** Department of Anatomy, College of Veterinary Medicine, University of Mosul, Mosul, Iraq.
- **Specialty (General/ Major):** Veterinary Medicine/ Anatomy
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- **H-index:** 5
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Other information

- **Present occupation:**
 - 2017-till now Dr. Lecturer (Veterinary Anatomy and Embryology), Department of Anatomy, College of Veterinary Medicine, University of Mosul, Mosul, Iraq.

- **Education:**

- Ph.D. Doctor of Philosophy (Anatomy): 2013-2017. Department of Veterinary Preclinical Sciences, Faculty of Veterinary Medicine, Universiti Putra Malaysia (UPM), 43400, Serdang, Selangor Darul Ehsan, Malaysia.
- PhD Research project: Development of Nanocomposite 3D-Scaffolds for Bone Repair, since 23 September 2013 till 15 December 2017.
- M.Sc. Master in Veterinary Sciences (Anatomy): 2004-2007. Department of Anatomy, College of Veterinary Medicine, University of Mosul, Mosul, Iraq.
- M.Sc. Research project: Embryonic Development of Double Facial Bones in Native Sheep, 2007.
- B.V.M.S. (Bachelor of Veterinary Medicine Sciences): 1995-1999. College of Veterinary Medicine, University of Mosul, Mosul, Iraq.

- **Training courses attended**

- 22 to 26-12-2019: Some basic concepts in molecular biology. Department of Basic Sciences, College of Agriculture and Forestry, University of Mosul, Mosul, Iraq.
- 13-3-2019: Workshop on the fundamentals of electronic marketing. Electronic Computer Center in collaboration with Sun Agency Company, University of Mosul, Mosul, Iraq.
- 11 to 12-3-2019: A training course in anatomic and histological techniques. Department of Anatomy, College of Veterinary Medicine, University of Mosul, Mosul, Iraq.
- 24 to 28-2-2019: Course on Arabic Language Safety. College of Literature, Department of Arabic language, University of Mosul, Mosul, Iraq.
- 7-10 January 2019: Training course in field tests used in the diagnosis of veterinary diseases. Department of Microbiology & Department of Internal and Preventive Medicine, College of Veterinary Medicine, University of Mosul, Mosul, Iraq.
- 4 to 5- 12- 2018: Training course on microscopic measurements and microscopy. Department of Anatomy, College of Veterinary Medicine, University of Mosul, Mosul, Iraq.
- 22-23 April 2018: Training course in methods for the preparation of chemical solutions and measurements, Department of Chemistry, College of Education for Girls, University of Mosul, Mosul, Iraq.
- 19-20 December 2016: Science and Technology Exchange Program (STEP) in Islamic Countries, Universiti Putra Malaysia and Mustafa Prize, Universiti Putra Malaysia (UPM), Selangor, Malaysia.
- 11 October 2016: Workshop in Guide to Getting Published, Emerald Publishing Group and Perpustakaan Sultan Abdul Samad, Perpustakaan Sultan Abdul Samad, Universiti Putra Malaysia (UPM), Selangor, Malaysia.
- 7 April 2015: Basic Laser Scanning Confocal Microscope Workshop, Completion of Matrix Optics (M) Sdn Bhd, Institute of Biosciences, Universiti Putra Malaysia (UPM), Selangor, Malaysia.
- 13 December 2014: Joint Malaysia-UK Symposium on Natural Product Chemistry and Drug Discovery, International Medical University, Kuala Lumpur, Malaysia.
- 4-3-2013 to 26-7-2013: Course in Intensive English Programme, ELS Language Center, Universiti Putra Malaysia (UPM), Selangor, Malaysia.
- 17 to 19-12-2012: Education course in principals of Anatomical technicians, Department of Anatomy, College of Veterinary Medicine, University of Mosul, Mosul, Iraq.
- 9 to 10-1-2012: Course in histological technician and micrography, Department of Anatomy, College of Veterinary Medicine, University of Mosul, Mosul, Iraq.
- 8 to 22-11-2009: Course in teaching methods and staff training. University of Mosul, Mosul, Iraq.
- 11-8-2004: Advanced course in computer application (Word, Excel, Power point), Computer Center, University of Mosul, Mosul, Iraq.
- 16 to 21-2-2002: Advanced course in computer application (Word, Excel, Power point), Computer Unit, College of Veterinary Medicine, University of Mosul, Mosul, Iraq.

- **Training courses attended**

- 2016/2017: Course in Advanced Statistical Methods, Faculty of Agriculture, Universiti Putra Malaysia (UPM), Selangor, Malaysia.
- 2015/2016: Course in Cell Culture Technology, Faculty of Biotechnology and Biosciences, Universiti Putra Malaysia (UPM), Selangor, Malaysia.
- 2014/2015: Course in Ultrastructure and Electron Microscopy, Institute of Biosciences, Universiti Putra Malaysia (UPM), Selangor, Malaysia.
- 2014/2015: Course in Laboratory Animal Science, Faculty of Veterinary Medicine, Universiti Putra Malaysia (UPM), Selangor, Malaysia.
- 2013/2014: Course in Advanced Research Methods, Faculty of Veterinary Medicine, Universiti Putra Malaysia (UPM), Selangor, Malaysia.

- **Research interests**

Anatomy; Embryology; Histology; Osteogenesis, Nanoparticle and nanomaterials preparation, synthesis and characterization; Nanostructured materials; Nanomedicine; Medical bionanotechnology; TEM and SEM Image Analysis; X-ray Diffraction; FTIR; DSC; TGA; and Nanocomposite bone scaffolds.

- **Professional and academic position:**

- 2017-till now Dr. Lecturer (Veterinary Anatomy and Embryology), Department of Anatomy, College of Veterinary Medicine, University of Mosul, Mosul, Iraq.
- 2011-2017. Lecturer (Vet. Anatomy), Department of Anatomy, Faculty of Veterinary Medicine, University of Mosul, Mosul, Iraq.
- 2007-2011. Assistant Lecturer (Vet. Anatomy), Department of Anatomy, Faculty of Veterinary Medicine, University of Mosul, Mosul, Iraq.
- 2002-2007. Demonstrator, Department of Anatomy, Faculty of Veterinary Medicine, University of Mosul, Mosul, Iraq.

Activities

- **Membership in professional organization:**

- Iraqi Veterinary Medical Association.
- Iraqi Teachers Syndicate.
- Iraqi Academics Syndicate.

Scientific Activities

- **Teaching activities:**

- Veterinary Anatomy for undergraduate & postgraduate.
- Veterinary Embryology for undergraduate & postgraduate.
- Veterinary Surgical Anatomy for postgraduate.

- **Supervision of postgraduate studies (University of Mosul): 1**

- **Conferences:**

- 2-3 May 2018. The Sixth International Conference for Nanotechnology, Advanced Materials and Its Applications. Nanotechnology and Advanced Materials Research Center, University of Technology, Baghdad, Iraq. Saffanah Khuder Mahmood, Intan Shameha Abdul Razak, Loqman Mohamed Yusof, Zaid Khudhur Mahmood, Zuki Abu Bakar Zakaria. *In Vitro* Evaluation of the Cockle Shells Aragonite Nanocomposite Porous 3D Scaffolds for Bone Repair. Available online at [http://namrc.uotechnology.edu.iq/index.php/Nanotechnology and Advanced Materials Research Centre](http://namrc.uotechnology.edu.iq/index.php/Nanotechnology%20and%20Advanced%20Materials%20Research%20Centre), Proceeding Articles Book 4, 2018, special issue:1020-1044.
- 13-14 November 2012. The Third International Scientific Conference of College of Veterinary Medicine, University of Basrah, Basrah, Iraq. Salih Q.M., Ahmad N.S., Mahmood S.K. Morphological and histological studies of the tongue and lingual papillae of the local rabbit. *Basrah J. Vet. Res.* (Proceedings of the 3rd international Scientific Conference), 2012, 11, 4: 421-430.
- 19-20 December 2011. The First scientific conference of college of Veterinary Medicine, College of Veterinary Medicine, University of Kufa, Najaf, Iraq.

- **Scientific Publications:**

1. Mahmood S.K. Embryonic development of nasal septum in indigenous sheep. *Al-Qadisyia J. Vet. Sci.*, 2011, 10, 1: 77-83.
2. Mahmood S.K. The relationship between head weight with total body weight during embryonic development in indigenous sheep. *Al-Anbar J. Vet. Sci.*, 2011, 4, 1: 5-10.
3. Ahmed N.S and Mahmood S.K. Development of mandible in indigenous sheep fetuses. *Iraqi J. Vet. Sci.*, 2011, 25, 2: 99-106.
4. Mahmood S.K. Morphometrical study for development of vomer bone in Indigenous sheep fetuses. *Basrah J. Vet. Res.*, 2011, 10, 1: 115-127.
5. Salih Q.M., Ahmad N.S., Mahmood S.K. Morphological and histological studies of the tongue and lingual papillae of the local rabbit. *Basrah J. Vet. Res.* (Proceedings of the 3rd international Scientific Conference), 2012, 11, 4: 421-430.
6. Ahmad N.S., Mahmood S.K. Bone Development in Hyoid Apparatus of Indigenous Sheep. *Australian Journal of Basic and Applied Sciences*, 2013, 7(10): 547-552.
7. Tijani Isa, Zuki Abu Bakar Zakaria, Yaya Rukayadi, Mohd Noor Mohd Hezme, Alhaji Zubair Jaji, Mustapha Umar Imam, Nahidah Ibrahim Hammadi, Saffanah Khuder Mahmood. Antibacterial Activity of Ciprofloxacin-Encapsulated Cockle Shells Calcium Carbonate (Aragonite) Nanoparticles and Its Biocompatibility in Macrophage J774A.1. *International Journal of Molecular Sciences*. 2016, 17: 713.
8. Nahidah Ibrahim Hammadi, Yusuf Abba, Mohd Noor Mohd Hezme, Intan Shameha Abdul Razak, Alhaji Zubair Jaji, Tijani Isa, Saffanah Khuder Mahmood, Zuki Abu Bakar Zakaria. Formulation of a sustained release Docetaxel loaded cockle shell-derived calcium carbonate nanoparticles against breast cancer. *Pharmaceutical Research*. 2017, 34, 6: 1193–1203.
9. Saffanah Khuder Mahmood, Md Zuki Abu Bakar Zakaria, Intan Shameha Binti Abdul Razak, Loqman Mohamed Yusof, Alhaji Zubair Jaji, Isa Tijani, Nahidah Ibrahim Hammadi. Preparation and characterization of cockle shell aragonite nanocomposite porous 3D scaffolds for bone repair. *Biochemistry and Biophysics Reports*. 2017, 10: 237–251.
10. Alhaji Zubair Jaji, Zuki Abu Bakar Zakaria, Rozi Mahmud, Mohamad Yusof Loqman, Mohamad Noor Mohamad Hezme, Yusuf Abba, Tijani Isa, Saffanah Khuder Mahmood. Safety assessments of subcutaneous doses of aragonite calcium carbonate nanocrystals in rats. *Journal of Nanoparticle Research*. (2017) 19:175.

• Scientific Publications:

11. Saffanah Khuder Mahmood, Intan-Shameha Abdul Razak, Mustafa Saddam Ghaji, Loqman Mohamed Yusof, Zaid Khudhur Mahmood, Mohd Adha Bin P Rameli, Zuki Abu Bakar Zakaria. In vivo evaluation of the novel nanocomposite porous 3D scaffold in a rabbit model: histological analysis. *International Journal of Nanomedicine*. (2017) 12: 8587—8598.
12. Saffanah Khuder Mahmood, Intan Shameha Binti Abdul Razak, Sahar Mohammed Ibrahim, Loqman Mohamed Yusof, Adamu Abdul Abubakar, Zaid Khudhur Mahmood, Zuki Abu Bakar Zakaria. In Vivo Evaluation of the Novel Nanocomposite Porous 3D Scaffold in a Rabbit Model. *Indian Journal of Science and Technology*, Vol 11(19):1-15, DOI: 10.17485/ijst/2018/v11i19/122540, May 2018.
13. S.M. Ibrahim, O.H. Kareem, K.M. Saffanah, A.A. Adamu, M.S. Khan, M.B.A. Rahman, M.M. Noordin, M.Y. Loqman. Histological and mechanical evaluation of antifreeze peptide (Afp1m) cryopreserved skin grafts post transplantation in a rat model. *Cryobiology*. 2018; 82: 27–36.
14. Saffanah Khuder Mahmood, Intan Shameha Abdul Razak, Loqman Mohamed Yusof, Zaid Khudhur Mahmood, Zuki Abu Bakar Zakaria. In Vitro Evaluation of the Cockle Shells Aragonite Nanocomposite Porous 3D Scaffolds for Bone Repair. The Sixth International Conference for Nanotechnology, Advanced Materials and Its Applications. Nanotechnology and Advanced Materials Research Center, University of Technology, Baghdad, Iraq. Available online at <http://namrc.uotechnology.edu.iq/index.php/> Nanotechnology and Advanced Materials Research Centre, Proceeding Articles Book 4, 2018, special issue:1020-1044.
15. Saffanah Khuder Mahmood, Zuki Abu Bakar Zakaria, Intan-Shameha Abdul Razak, Loqman Mohamed Yusof, Adamu Abdul Abubakar, Zaid Khudhur Mahmood, Mohd Qayyum Bin Ab Latip. In Vivo Evaluation of The Novel Nanocomposite Porous 3D Scaffold in a Rabbit Model: Hematology and Biochemistry Analysis. *Iraqi Journal of Veterinary Sciences*, January 2019; 32(2):219-230, DOI: 10.33899/ijvs.2019.153853.
16. Sahar Mohammed Ibrahim, Saffanah Khuder Mahmood, Intan Shameha Binti Abdul Razak, Loqman Mohamed Yusof, Zaid Khudhur Mahmood, Fufa I. Gimba, Md Zuki Abu Bakar Zakaria. Characterization and In Vitro Evaluation of a Novel Coated Nanocomposite Porous 3D Scaffold for Bone Repair. *Iraqi Journal of Veterinary Sciences*. 2019; 33 (1): 157-173.
17. Comparative morphometrical study of gills of carp fish (*Cyprinus carpio L.*) and catfish (*Silurus triostegus (Heckel)*) in Tigris River water. *Annals of the Romanian Society for Cell Biology*, 2021; 25 (6): 12653–12662.