

Curriculum Vitae

NAME: **Omar Hussein Khalaf**

DEGREE: **PhD Biomedical Sciences (Veterinary Pathology)**

EDUCATION/TRAINING:

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date YYYY	FIELD OF STUDY
University of Baghdad, Iraq	BVM&S	2006	Veterinary Medicine & Surgery
University of Baghdad, Iraq	Master	2009	Veterinary Pathology
Texas A&M University, USA	PhD	2019	Biomedical Sciences (Veterinary Pathology)

Positions and Employment

- ✓ 2009-2013, Lecturer Assistant, Department of Veterinary Pathology & Poultry Diseases, College of Veterinary Medicine, University of Baghdad, Iraq.
- ✓ 2014-2019, PhD student, Department of Veterinary Pathobiology, College of Veterinary Medicine & Biological Sciences, Texas A&M University, USA.
- ✓ 2020-present, Lecturer Ph.D., Department of Veterinary Pathology & Poultry Diseases, College of Veterinary Medicine, University of Baghdad, Iraq.

Contact Information

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Teaching

- ✓ Veterinary Pathology, Department of Veterinary Pathology & Poultry Diseases, College of Veterinary Medicine, University of Baghdad, Iraq.
- ✓ Morbid Anatomy, Department of Veterinary Pathology & Poultry Diseases, College of Veterinary Medicine, University of Baghdad, Iraq.

Honors and Awards

- ✓ 2009 Certificate of appreciation, Dean of College of Vet. Med, University of Baghdad, Iraq.
- ✓ 2010 Certificate of appreciation, Dean of College of Vet. Med, University of Baghdad, Iraq.
- ✓ 2012 Certificate of appreciation, Dean of College of Vet. Med, University of Baghdad, Iraq.
- ✓ 2017 CVM-GSA Fall Travel Award, \$1000, College of Veterinary Medicine & Biomedical Sciences, Texas A&M University, USA.
- ✓ 2021 Certificate of appreciation, Dean of the College of Vet. Med, University of Baghdad.
- ✓ 2021 Certificate of appreciation, Iraqi Minister of Higher Education and Scientific Research.
- ✓ 2022 Certificate of appreciation, Dean of the College of Pharmacy, University of Al-Nahrain.
- ✓ 2022 Certificate of appreciation, Iraqi Minister of Higher Education and Scientific Research.

Research Compliance and Biosafety

- ✓ Biological Select Agents and Toxins (BSAT)
- ✓ Biosafety Level II and III Trainings

Research Grant

- ✓ Graduate Student Research Trainee Grant \$5000. College of Veterinary Medicine & Biomedical Sciences. Title: The role of Osteoclasts in *Brucella*-induced Osteoarticular Disease. Awarded in February 2017.

Participations

- ✓ 2019 Annual Brucellosis Research Conference, **Khalaf, O. H**, Chaki SP, Garcia D, Larry J. Suva, Dana Gaddy, Arenas-Gamboa AM: Role of Osteoclasts in the Pathogenesis of Osteoarticular Brucellosis.
- ✓ 2018 Annual Brucellosis Research Conference, **Khalaf, O. H**, Garcia D, Chaki SP, Ficht TA, Arenas-Gamboa AM: Mature Osteoclasts Support Replication and Survival of *Brucella abortus*.
- ✓ 2nd annual CVM Graduate Student 3 Minute Thesis Competition, October 26, 2018: Mature Osteoclasts Support Replication and Survival of *Brucella abortus* and S19.
- ✓ 3rd Annual Postdoctoral Research Symposium, 3 minutes Flash talk, Wednesday, September 19, 2018 at Thomas G. Hildebrand, DVM '56 Equine Complex: Mature Osteoclasts Support Replication and Survival of *Brucella abortus* and S19.
- ✓ 2017 Annual Brucellosis Research Conference, **Khalaf, O. H**, Garcia D, Chaki SP, Ficht TA, Arenas-Gamboa AM: Characterization of the NOD-*scid IL2 γ ^{null}* Mouse Model to Study the Safety of *B. abortus* S19 Δ vjbR Vaccine Candidate in *Brucella*-Induced Osteoarticular Disease.
- ✓ 2017, 98th Annual Conference of Research Workers in Animal Diseases: **Khalaf, O.H**, Garcia D, Chaki SP, Ficht TA, Arenas-Gamboa AM: Characterization of the NOD-*scid IL2 γ ^{null}* Mouse Model to Study the Safety of *B. abortus* S19 Δ vjbR Vaccine Candidate in *Brucella*-Induced Osteoarticular Disease.
- ✓ 2017, Texas Branch of the American Society for Microbiology: **Khalaf, O.H**, Garcia D, Chaki SP, Ficht TA, Arenas-Gamboa AM: The use of NOD-*scid IL2 γ ^{null}* Mouse as a Model to Study the Safety of *B. abortus* S19 Δ vjbR Vaccine Candidate in *Brucella*-Induced Osteoarticular Disease.
- ✓ 2017, Spring Research Symposium, January 26, 2017: **Khalaf O. H**, Garcia D, Chaki SP, Ficht TA, Arenas-Gamboa AM: Title: NOD-*SICD IL2R^{null}* Mouse as a Model to Study *Brucella*-Induced Osteoarticular Disease.

Publications

1. Shakirat Adeola Adetunji, Denise L Faustman, Leslie G Adams, Daniel G Garcia Gonzalez, Martha Hensel, **Omar H. Khalaf**, and Angela Arenas (2021). Placentitis and Fetal Resorption during *Brucella abortus* Infection in Allogeneic Pregnant Mice. Submitted on: 09 Oct 2021 to *Frontiers in Cellular and Infection Microbiology, section Bacteria and Host*.
2. Adetunji, S. A., Faustman, D. L., Adams, L. G., Garcia-Gonzalez, D. G., Hensel, M. E., **Khalaf, O. H.**, & Arenas-Gamboa, A. M. (2020). *Brucella abortus* and Pregnancy in Mice: Impact of Chronic Infection on Fertility and the Role of Regulatory T Cells in Tissue Colonization. *Infection and immunity*, 88(10), e00257-20. <https://doi.org/10.1128/IAI.00257-20>.
3. Hensel, M. E., Chaki, S. P., Stranahan, L., Gregory, A. E., van Schaik, E. J., Garcia-Gonzalez, D. G., **Khalaf, O.**, Samuel, J. E., & Arenas-Gamboa, A. M. (2020). Intratracheal Inoculation with *Brucella melitensis* in the Pregnant Guinea Pig Is an Improved Model for Reproductive Pathogenesis and Vaccine Studies. *Infection and immunity*, 88(10), e00204-20. <https://doi.org/10.1128/IAI.00204-20>.

4. Stranahan, L. W., Chaki, S. P., Garcia-Gonzalez, D. G., **Khalaf, O. H.**, & Arenas-Gamboa, A. M. (2020). Evaluation of the Efficacy of the *Brucella canis* RM6/66 Δ vjbR Vaccine Candidate for Protection against *B. canis* Infection in Mice. *mSphere*, 5(3), e00172-20. <https://doi.org/10.1128/mSphere.00172-20>.
5. Bagheri Nejad, R., Krecek, R. C., **Khalaf, O. H.**, Hailat, N., & Arenas-Gamboa, A. M. (2020). Brucellosis in the Middle East: Current situation and a pathway forward. *PLoS neglected tropical diseases*, 14(5), e0008071. <https://doi.org/10.1371/journal.pntd.0008071>.
6. **Khalaf, O. H.**, Chaki, S. P., Garcia-Gonzalez, D. G., Suva, L. J., Gaddy, D., & Arenas-Gamboa, A. M. (2020). Interaction of *Brucella abortus* with Osteoclasts: a Step toward Understanding Osteoarticular Brucellosis and Vaccine Safety. *Infection and immunity*, 88(4), e00822-19. <https://doi.org/10.1128/IAI.00822-19>.
7. Zriba, S., Garcia-Gonzalez, D. G., **Khalaf, O. H.**, Wheeler, L., Chaki, S. P., Rice-Ficht, A., Ficht, T. A., & Arenas-Gamboa, A. M. (2019). Vaccine safety studies of *Brucella abortus* S19 and S19 Δ vjbR in pregnant swine. *Vaccine: X*, 3, 100041. <https://doi.org/10.1016/j.jvacx.2019.100041>.
8. Stranahan, L. W., **Khalaf, O. H.**, Garcia-Gonzalez, D. G., & Arenas-Gamboa, A. M. (2019). Characterization of *Brucella canis* Infection in Mice. *PloS one*, 14(6), e0218809. <https://doi.org/10.1371/journal.pone.0218809>.
9. **Khalaf, O. H.**, Chaki, S. P., Garcia-Gonzalez, D. G., Ficht, T. A., & Arenas-Gamboa, A. M. (2019). The NOD-scid IL2rynull Mouse Model Is Suitable for the Study of Osteoarticular Brucellosis and Vaccine Safety. *Infection and immunity*, 87(6), e00901-18. <https://doi.org/10.1128/IAI.00901-18>.
10. Pandey, A., Ding, S. L., Qin, Q. M., Gupta, R., Gomez, G., Lin, F., Feng, X., Fachini da Costa, L., Chaki, S. P., Katepalli, M., Case, E. D., van Schaik, E. J., Sidiq, T., **Khalaf, O.**, Arenas, A., Kobayashi, K. S., Samuel, J. E., Rivera, G. M., Alaniz, R. C., Sze, S. H., ... de Figueiredo, P. (2017). Global Reprogramming of Host Kinase Signaling in Response to Fungal Infection. *Cell host & microbe*, 21(5), 637–649.e6. <https://doi.org/10.1016/j.chom.2017.04.008>.
11. Al-Mzaien, A. K., **Khalaf, O. H.**, AL-Neamah, G. A., & Al-Naimi, R. A. (2016). Study Some of the Histopathological Changes of Acute, Subacute and Chronic Lead Acetate Toxicity related to Catalase Activity in Blood of Adult Male Wistar Rats. *Kufa Journal For Veterinary Medical Sciences*, 6(2).
12. Eman H. Al-Taai1; **Omar H. Khalaf**; Fawziaa. S. Kadhim, & Rajiha A. AL-Naimi (2016). Histological Morphology and Pathological Changes in Liver of Rats Naturally Infected with Larval Stage *Cysticercus fasciolaris* of *Taeniae taeniaeformis*. *The Iraqi Journal of Veterinary Medicine*. 40 (2). 26-30. <https://www.iasj.net/iasj/download/1bf917df35355bf7>.
13. Anwar Ibrahim Obaid, Layla Hashim Alol1, Aous Kahtan Al-Mzaien, **Omar Hussein Khalaf** (2015): Effect of crude polyphenol extracted from black olive fruit (*Olea europae*) on male reproductive system of rats. *The Iraqi Journal of Veterinary Medicine*, 39 (1), 62-69.
14. **Khalaf, O. H.**, Al. Jeboori, K. H., & Yassen, N. Y. (2014). Study of Pathological Effects of Crude Extract of *Portulaca oleracea* L. in the Treatment of Transplanted Mammary Tumor in Female Albino Mice Immunized with *Candida albicans*. *Global Journal of Bio-Science & Biotechnology*, 3(1), 23-27.
15. **Khalaf, O. H.**, Al. Jeboori, K. H., & Yassen, N. Y. (2013). Study of Pathological Effects of Crude extract of *Portulaca oleracea* L. in the Treatment of Transplanted Mammary Tumor in Female Albino. *Global Journal of Bio-Science & Biotechnology*. 3(4), 501-505.
16. Al-Naimi, R. A. S., **Khalaf, O. H.**, Tano, S. Y., & Al-Tae, E. H. (2012). Pathological Study of Hepatic Coccidiosis in Naturally Infected Rabbits. *Journal of Veterinary and Medical Science*, 11(1), 63-69.
17. Al-Ani, M. M., **Khalaf, O. H.**, Abid, F. K., & Znad, K. H. (2011). Pathological Study of an Outbreak of Bovine Papilloma (Cutaneous Papillomatosis) in Al-Anbar Province. Conference paper.
18. **Khalaf, O. H.** (2011). Histopathological Changes in Female Albino Mice Resistant to Transplanted Mammary Adenocarcinoma Cell Line. *Al-Anbar Journal of Veterinary Science*, 4 (1), 59-65.

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<https://www.scopus.com/authid/detail.uri?authorId=57194187100>

References:

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