

# Prof Dr. Ezat H. Mezal

Department of Basic Science

College of Nursing

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## **Personal Information**

Date of Birth: 27 / 4 /1974

Place of Birth: Thi-Qar -Iraq

Marital Status: Married

Nationality: Iraqi



## **Education**

- Ph.D. of Pathogenic Microbiology / Molecular Biology (2014)  
**University of Arkansas at Little Rock –USA**
- Master of Science in Applied Science (2013)  
**University of Arkansas at Little Rock -USA**
- Master of Science in Biology (2004)  
**University of Basra-Basra, Iraq**
- Bachelor of Science in Biology ( 1998)  
**University of Basra-Basra, Iraq**

## **Graduate Courses**

Pathogenic Microbiology, Biochemistry of Biological Molecules, Genetic Analysis, Recombinant DNA method and Application, Cell Death Markers and Molecular Biotechnology

## **Position of Experiments**

- Division of Microbiology, National Center for Toxicological Research-FDA-USA
- University of Arkansas at Little Rock -USA

## **Teaching**

- **General Microbiology**
- **Biotechnology and Molecular Biology**
- **Pathogenic Microbiology**
- **Medical Mycology**
- **Mycology**
- **Experimental technique in Molecular Biology**

## Publication

- **Mezal, E.H.**, Al-Mosowi, M.H., and Abd-Hassan, A.S. (2006). Isolation and identification the fungi from plants residual of submerged in some marshes of *Thi-Qar J.Sci*, 2: 112-120
- **Mezal, E.H.** (2007). Isolation and identification of fungi from Date Palm soil in Thi-Qar. *Samawa J.Arq.Vol 3*.
- Al- Mosowi, M.H., Krady, H.M., **Mezal, E.H.** (2007). The effect of crude saponine isolation from leaf *Ziziphus spina - christi* on some Dermatophytes. *Thi-Qar.J.Sci.Vol6*.
- **Mezal, E.H.**, Stefanova, R., and Khan, A.A. (2013). Isolation and molecular characterization of *Salmonella enterica* serovar Javiana from food, environmental and clinical samples. *International Journal of Food Microbiology 164: 113-118*
- **Mezal, E.H.**, Sabol, A., Khan, M.A., Nawab, A., Stefanova, R., and Khan, A.A. (2014). Isolation and molecular characterization of *Salmonella enterica* serovar Enteritidis from poultry house and clinical samples during 2010. *Food Microbiology 38: 67-74*
- **Mezal, E.H.**, Bae, D. and Khan, A.A. (2014). Detection and functionality of the *cdtB*, *pltA* and *pltB* from *Salmonella enterica* serovar Javiana. *Pathogens and Disease (2014), 0, 1–9*.
- Dongryeoul Bae , **Ezat Mezal**, Ashraf A. Khan (2014). The sub –species characterization and antimicrobial resistance of *Listeria monocytogenes* isolated from domestic and imported food products from 2004 to 2011. *Food Research International 64: 656-663*.
- **Mezal, E.H.**, Bae, D., Khan, S.A., Erickson, B.D and Khan, A.A. (2015). Functional Studies of the Recombinant CdtB, PltA and PltB Subunits from *Salmonella enterica* serovar Javiana. *International Journal of Advanced Research , Volume 3, Issue 4, 1021-1029*.
- **Ezat Hussain Mezal .** (2015) Antimicrobial resistance ,virulence profiles of *Salmonella enteric* serovar Typhimurium isolated from clinical samples .*J.Thi-Qar .Sci. Vol 5(3) 43-47*.
- **Ezat Hussain Mezal.** (2015) Role Cytolethal distending toxin B( CdtB) in *Salmonella enteric* serovar Schwarzengrund. *Iraqi Journal of Biotechnology, Vol .14 (2) ,238-248*.
- Muaid S. Ali, Mouhammed H. Mashhad, **Ezat H. Mezal .**(2015). Effect of Accompanying Fungi with *Sorghum bicolor* L. (Moench) on vegetative characteristics and forage yield in marshland. *Journal of Thi-Qar University. Vol. 10 (4) 149-156*.
- **Ezat H. Mezal**, Zaman K. Hanan and Manal B. Saleh( 2016) . IDENTIFICATION, ANTIMICROBIAL RESISTANCE OF *SALMONELLA ENTERICA* ISOLATED FROM DIARRHEAL CHILDREN IN THI-QAR PROVINCE DURING 2015. *ejpmr, 2016,3(6), 01-6*.
- Dongryeoul Bae , Ronald Smiley , **Ezat Mezal**, Ashraf A. Khan. (2016). Characterization and Antimicrobial Resistance of *Listeria monocytogenes* Isolated from Food-Related Environments. *Food Protection Trends. 2016*.
- Manal B.Saleh; **Ezat H.Mezal**; Zaman K Hanan ( 2016) Antimicrobial resistance virulence profiles of Typhimurium isolated from diarrheal children in Thi-Qar province during 2015 . *J THI-QAR SCI (6)*

- Hawraa A. Mohammed ; **Ezat H. Mezal** ; Zaman K. Hanan (2017). Isolation and molecular characterization of *vibrio fluvialis* from diarrheal children in Nasiriya city in Iraq. *Euphrates journal of Agriculture Science* (2) 796-809
- Ali Harb ; Ihab Habib; **Ezat Hussain Mezal** ; Hayder Shannoon Kareem (2019). Occurrence ,antimicrobial resistance and whole genome sequencing analysis of Salmonella isolates from chicken carcasses imported into Iraq from four different countries. *International journal of food microbiology* 2018 (28) 84-90
- Seraj S. Hussain ; **Ezat Hussain Mezal** ; Mohammed H. Al-Yasiri ( 2018) . Isolation and Antibiogram of Salmonella Enterica from children under five years with diarrhea in Thi-Qar Province . *Journal of college of education for pure science (JCEPS)*
- Zaman K. Hanan ; Manal B. Saleh ; **Ezat H. Mezal** ( 2020) . Investigation and Molecular Detection of *Salmonella Typhi* isolated from Patients Undergoing to Gallbladder Cholecystectomy in Thi-Qar Province /Iraq. *International Journal of Pharmaceutical Research* . Vol 12 , Issue 3
- Nafaa F. Muten ; **Ezat H. Mezal** ; Ahmed S. Al -Shoor ( 2020) . Solation and characterization of *Endophytic Actinomycetes* Streptomycets sp. from some local algae isolates in Al-Islah marshes of Thi-Qar Provence southern of Iraq. *International Journal of Pharmaceutical Research* Vol 12 , Issue 2.
- Zaman K. Hanan ; **Ezat H. Mezal** ; Manal B.Saleh ; Hazar Shaker Saleh( 2020) . Histopathological study of Gallbladder diseases and Molecular Detection of genotoxins of *Salmonella Typhi* from Gallbladder of Patients Undergoing to Gallbladder Cholecystectomy in Thi-Qar province/Iraq. *European Journal of Molecular & Clinical Medicine*, Volume 07, Issue 06.
- **Ezat H. Mezal** ; Abdullah F. Yousif ; Zaman K. Hanan ; Ali K. Hanan ; AbduladheemTurki Jalil ( 2020). Title: Isolation, Assessment of Antimicrobial Sensitivity of Bacterial Pathogens from Post-Cesarean section Infection of patients in Thi-Qar Province. *European Journal of Molecular & Clinical Medicine*.
- **Ezat H. Mezal** , Abdullah F. Yousif , Zaman K. Hanan , Ali K. Hanan , Abduladheem Turki Jalil ( 2020) . Isolation , Assessment of Antimicrobial Sensitivity of Bacterial pathogens from post –cesarean section infection of patients in Thi-qar province. *European Journal of Molecular & Clinical Medicine* ,Vol 07
- Zaman K. Hanan ; Manal B. Saleh ; **Ezat H. Mezal** (2021). Phylogenitic analysis of biofilim association protein (*BapA*) amplicons in Salmonella Typhi carrier in gallbladder diseases patients in Thi-Qar province / Iraq.*International Journal of Aquatic Science* .Vol 12 , Issue 02, 2021.
- Zaman K. Hanan ; **Ezat H. Mezal** ; Manal B.Saleh (2021). Molecular detection of Quinolones resistance genes of *Salmonella Typhi* from gallbladder of patients undergoing to cholecystectomy in Thi-qar province / Iraq . *Annals of R.S.C.B*, Vol. 25 Issue 6 , 268-280 .
- Zaman K. Hanan ; **Ezat H. Mezal**, Muhanad A. Ibrahim and Abdullah F. Youssif ( 2020). Emerging fluoroquinolones resistance in different types of Bactrian isolated from diarrheal children in Thi-qar province , Iraq during 2017-2018 . *plant Archives* . Vol. 20 pp. 7266-7270 .

## International Conferences

- **Ezat Mezal**, Tatsuya Akiyama, Nawab Ali, Rossina Stefanova and Ashraf A. Khan. Isolation and Molecular Characterization of *Salmonella enterica* Serovar Eenteritidis from Poultry House and Clinical Samples during 2010 outbreak. 112th General Meeting -*American society for Microbiology (ASM 2012)*.
- **Ezat Mezal**, S. Khare, Nawab Ali and Ashraf A. Khan. Detection and functionality of CdtB toxin in *Salmonella enterica* serovar Javiana isolated from food and clinical samples. 113th General Meeting - *American society for Microbiology (ASM 2013)*.
- **Ezat Mezal**, Dongryeoul Bae and Ashraf A. Khan. Detection and functionality of CdtB, PltA and PltB from *Salmonella enterica* serovar Javiana. South Central Branch -*American society for Microbiology (ASM -TX 2013)*.
- **Ezat Mezal**, Rossina Stefanova and Ashraf Khan. *Salmonella enterica* serovar Javiana from Food, Environmental and Clinical Samples. (UALR-Expo-2013)
- **Ezat Mezal** and Ashraf Khan. Detection and functionality of CdtB toxin in *Salmonella enterica* serovar Javiana isolated from food and clinical samples. 3rd Annual Foods and Veterinary Medicine Science and Research Conference.
- S. Khare., T. Akiyama, **E. Mezal** and Ashraf A. Khan. Identification and Functional Analysis of Non-Typhoidal *Salmonella* sp. Containing Cytolethal Distending Toxin B. 111th General Meeting-*American society for Microbiology (ASM 2011)*.
- Tatsuya Akiyama, **Ezat Mezal** and Ashraf A. Khan. Deletion of the *ramR* induces low level of resistance of Ciprofloxacin and Tigecycline in *Salmonella* Schwarzengrund by inducing expression of *ramA* and efflux genes and repressing influx genes. 112th General Meeting- *American society for Microbiology (ASM 2012)*.
- **The first International conference of Biology Dept. Baghdad University ( 2015)**
- **The 1<sup>st</sup> International medical science congress / University of Kerbala (2016)**
- **The 1<sup>st</sup> International conference of biotechnology / kufa technical institute (2017)**
- **The second International conference of Natural Sciences / University of Charmo ICNS (2017)**
- **First international conference for medical sciences / University of Al-ameed (2018)**
- **The second international scientific conference / Alzahrawi university college –Iraq (2019)**

## Local conferences:

- **The first conference for Thi Qar Development (2015)**
- **The second conference for biology in Al kufa university (2015)**
- **The first conference of Southern Technical University (2016)**
- **The 4<sup>th</sup> Scientific Medical Conference / Al qadisyia University ( 2016)**
- **The Second Scientific Conference of University of Al-Qasim Green ,college of veterinary medicine (2017)**
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## **Supervision:** ( Thesis & Dissertation)

1. Isolation and molecular characterization of *Salmonella enterica* from diarrheal children in Thi-Qar province –Iraq (2016).
2. Molecular Characterization of *Vibrio fluvialis* from diarrheal children in Thi- Qar province ( 2017)
3. Molecular characterization of *Shigella* Spp. And *Salmonella enteric* isolated from diarrheal children in Al- Nassiriyah city. (2018).
4. Occurrence of class 1 integron and antimicrobial resistance pattern among *Salmonella* from human clinical samples and chicken meat in Nasiriyah city / Iraq ( 2020)
5. Isolation and characterization of *Endophytic Actinomycetes* from some local algae isolates in marshes of Thi-Qar province( 2020).
6. Clinical and genetic study of gall bladder diseases associated with *Salmonella typhi* infection (2020) .
7. Identification of toxins producing *Bacillus* spp. From dietary supplements (2020)
8. Phenotypic and genotypic characterization of *Campylobacter* spp. Isolated from patients with diarrhea in thi qar provinces (2019) .
9. Identification of toxins producing *Bacillus* spp. From dietary supplements (2020).
10. Effect of some algal extracts on the virulence genes of gram negative bacteria ( 2021)
11. The Role of efflux pumps in the antibiotic resistance of *E.coli* isolated from urinary tract infection patients ( 2022)

## **Committee members of thesis and dissertation**

**30 ( committee members)**