



## **CURRICULUM VITAE**

### **Personal Information:**

**Name:** Hasan F. Samir Al-Azzawie

**Title:** Professor of Medical Biochemistry

**Nationality:** Iraqi

**Date of Birth** : 1960

**Marital Status:** Married

### **Affiliation**

Professor of Medical Biochemistry, Biotechnology department/ College of science /Baghdad University, Iraq.

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### **Education**

PhD in clinical Biochemistry/College of Science / Baghdad University, Baghdad/Iraq (2004)

MSc in clinical Chemistry / College of Science/ Baghdad University, Baghdad/Iraq (1986)

BSc. in clinical Chemistry/ College of Science / Baghdad University, Baghdad/Iraq (1981)

### **Teaching Experience**

Clinical Biochemistry course (Enzymes, metabolism and metabolic disorders) for Undergraduate students at biotechnology department, College of science Baghdad University,

Endocrinology & Hormones course for undergraduate students

Clinical Biochemistry course (Electrolytes homeostasis', Liver disease, renal diseases and cardiac diseases) for undergraduate student's .Free radicals and antioxidant course, biosperation course for MSC,

Basic Biochemistry for undergraduate and postgraduate students at biotechnology department.

Biochemistry courses for Medical Laboratory Science undergraduate students,

Applied Medical Chemistry Course for Master and Ph.D. degree students

Cancer Chemistry Course (DNA damage and repair mechanisms, carcinogens and mechanism of carcinogenesis) for Master and Ph.D. degree students.

Molecular biology and Biochemistry Course (PCR theory and application in diagnosis) ,immunogenic Course for

Ph.D. students, Drug chemistry, Metabolic pathway course for MSC. Nanotechnology application in medicine

### **Research Experience**

Professor of Biochemistry, Baghdad University

- ◆ “Mechanistic studies of xanthine oxidase and its involvement in ischemia reperfusion”
- ◆ Mentored numerous independent study students and research students working on multiple projects with results published in research articles and presentations.
- ◆ Developed individual research project to maintain an ongoing active lab.
- ◆ Participate in numerous collaborative projects within the department.
- ◆ Designed multiple research projects for undergraduate lab students.
- ◆ Developed numerous proposals for new investigator awards from both National and Local agencies.
- ◆ Managed research projects for over 50 research students.
- ◆ Re-designed new upper level course in the area of biochemistry for medical fields.
- ◆ Developed intensive course packets with conceptual challenges imbedded for multiple topics.
- ◆ Developed conceptual exams both of multiple choice and essay format to test the students' ability to apply the instructed material to a situation developing in the medical or pharmaceutical field.
- ◆ Supervisor for more than 50 projects for undergraduate students in biochemistry, molecular biology and genetic engineering and 20 projects for MSc and Ph.D student in biotechnology department. Publishing many of researches paper in different field in chemistry.
- ◆ Discuss more than 40 theses for M.SC and PhD students

### **Research in Progress**

Spectroscopic antibiotic inhibition screening

Spectroscopic glucose uptake assays

Spectroscopic reactive oxygen species evaluation for selenium and cis-platinum treated colon cancer cells

Spectroscopic inhibitor testing for xanthine oxidase/dehydrogenase wild type and mutant enzymes

Clinical studies examining the effects of cinnamon on blood sugar levels

Protein expression trials

Biosynthesis of metal nanoparticles using green method and its clinical application

Screening of mitochondrial deletion in sperm isolated from Iraqi infertile men

Preparation of a novel inhibitory compounds from Iraqi plant extract against ACE for hypertension patients

Diagnosis of breast cancer in Iraqi women by detecting her2 receptor by PCR

Evaluation of biochemical, immunological and genetic markers in repeated abortion in Iraqi women

Evaluation of cytotoxicity of nanoparticles by in vivo and in vitro studies.

**Specific Skills:**

Protein purification, chromatography, absorbance spectroscopy, steady state and pre-steady state kinetics, anaerobic technique, SDS -PAGE, sterile technique, plate reproduction, culture maintenance, media preparation, bacterial and yeast transformation, RNA isolation, cDNA cloning, restriction enzyme digestion, expression, plate assays, redox assays, Kirby-Bauer, minimum inhibitory concentration determination

**Instrumentation Experience**

UV/Vis Spectroscopy, Gel Electrophoresis, Anaerobic technique, EPR, PCR, R. Raman, IR, HPLC, GC, FPLC, NMR, thermo cycler, ultra centrifugation.

**Published research:**

1-Hasan F. Al-Azzawie et al (2006) .Hypoglycemic and antioxidant effect of oleuropein in alloxan diabetic rabbits .Life science, 78, 1371-1377.

2- Hasan F. Al Azzawie et al (2007). Decreased formation of advanced glycation end products in peritoneal fluid by Carnosine. Peritoneal Dialysis International, 27, 86-89.

3-Hasan F. Alazzawie (2009). Effect of long term administration of oleuropein on antioxidant status in Iraqi patient with sickle cell anemia .Proceeding of the third scientific conference of college of science, university of Baghdad ,Iraq .

4-Hasan F. Al Azzawie et al .(2011).Effect of alcoholic Anastatica hierochuntica extract on some biochemical and histological parameters in alloxan diabetic rabbits. Iraqi J. of Science, 52,445-455.

5- Hasan F. Al Azzawie et al (2012) .Attenuation of oxidative stress in rabbits induced hyperthyroidism by ethanolic red cabbage extract Eng and Tech. Journal.30, 1509-1523.

6-Hasan F Alazzawie and Esraa H.Humadi (2010). Oxidative stress and antioxidant mechanism in a sample of Iraqi patients with polycystic ovary syndrome .Iraqi J. of Community medicine, July 2010 (3).195-201.

7- Hasan F. Al Azzawie (2012).Antihepatotoxic effect of methanolic Anastatica hierochuntica extract in CCl4 treated rats.Eng and Tech. Journal, 29,413-420.

8-- Hasan F. Al Azzawie (2012).Effect of red cabbage extract on oxidative stress markers and some cytokines in rabbits induced hyperthyroidism by thyroxine. Iraqi J. of Science.4.77-88.

9- Heba T , Subhei J and Hassan F. Alazzawie ( 2013). Evaluation of human oral *Lactobacillus* for production of IgA protease. Iraqi J. of Science.22.123-143.

- 10-** Hasan F.Al Azzawie (1995).Application of the erythrocyte glutathione reductase assay in evaluating riboflavin Nutritional status in Iraqi population. Al-Mustansiryia J.Sci
- 11-** Hasan F.Al Azzawie et al (2013). Isolation and purification of IgA protease from oral *Lactobacillus*. Iraqi J. of Science.20.100-104.
- 12-** Hasan F.Al Azzawie and Sami al-Mudaffer (1986). Thyroid hormone binding sites in human lymphocytes of healthy and kalazaric patients J.Iraqi.chem.soc.5,88-99.
- 13-** Hasan F.Al Azzawie and Sami al-Mudaffer (1986).Solublized nuclear thyroid hormone receptors in circulating human mononuclear cells isolated from normal and kala-zaric patients J.Iraqi.chem.soc.6,22-30
- 14-** Hasan F.Al Azzawie and Sami al-Mudaffer (1990). The effect of heamodialysis on thyroid hormone functions in patients with end stage chronic renal disease. J.Iraqi.chem.soc.
- 15-** Hasan F.Al Azzawie et al (1995).Susceptibility of clinical isolates of staph.aureus to multiantibiotic resistance in Iraqi hospitals .J.of med .Science .10,90-99.
- 16-** Hasan F.Al Azzawie et al (1995).Enthalpies and Heat Capacities for solutions of Nucleosides in water and mixed N-methylpyrrolodone.Al-Mustansiryia J.Sci.6,177-185.
- 17-** Hasan F.Al Azzawie (2001). Lipid profile in myocardial infarction Iraqi patients. Proceeding of the two national conference of chemistry. Iraq
- 18-** Hasan F.Al Azzawie and Sami al-Mudaffer (1988). Nuclear binding of T3 and t4 with lymphocytes isolated from myocardial infarction patients.J.Iraqi.chem.Soc.
- 19-** Hasan F.Al Azzawie et al (1989). Antibiotic resistance in Actinomyces isolated from Iraqi soil. Proceeding of five conceference of scientific research council.
- 20-** Hasan F.Al Azzawie et al (1989).Effect of Oxytocin and hemicasteration on thyroid function in rat. Proceeding of five conceference of scientific research council .
- 21-** Hasan F-Alazzawie and Esraa H.Humadi (2013).Association between homocysteine levels and oxidative stress biomarkers in placental of preeclampsia Iraqi patients.Jordian medical journal .
- 22-** Hasan F.Al-Azzawie, Akram Umran, and Nadhem H.Hyader (2013). Oxidative stress, antioxidant status and DNA damage in a mercury exposure workers. British journal for pharmacology and toxicology.
- 23-** Hasan F.Al-Azzawie, Dina H.Sahib (2014).Relation between Lipid peroxidation, leptin and lipid profile in Iraqi women with preeclampsia. Eng and Tech. Journal. 32,225-232.

- 24-** Hasan F.Al-Azzawie, Dina H.Sahib (2013).Serum lipid profile levels in relation to circulating leptin, paraoxanase activity and malondialdehyde in normal pregnancy, mild and severe preeclampsia. Eng and Tech. Journal.
- 25-** Hasan F.Al-Azzawie, Akram Umran, and Nadhem H.Hyader (2013).Oxidant / antioxidant status and oxidative DNA damage in mice with chronic mercuric chloride intoxication. Eng and Tech. Journal .
- 26-** Hasan F.Al-azzawie\*, Naeim M and Ehab D.Saleman A novel mtDNA deletions are associated with diminished fertility in Iraqi human sperm. International Journal of Advanced Research (2014), Volume 2, Issue 6, 139-150
- 27-**Hasan F.Al-Azzawie and Sara Sabri (2013). C677T and A1298C polymorphisms of Methylenetetrahydrofolate Reductase Gene in Iraqi Patients with Recurrent Abortion . International Journal of Advanced Research (2014), Volume 2, Issue 6, 227-234
- 28-** Saud AM .Hasan F.Al-Azzawie ,and Al Kazaz AA (2013). Molecular characterization of beta thalassemic mutation in Iraq. Current research in microbiology and Biotechnology
- 29-** Hasan F.Al-Azzawie , Eman H; Abdul Kareem AL-Kazaz ,Mohammed Ghanim (2013) . Immunohistochemical evaluation of human epidermal growth factor receptor 2 and estrogen and progesterone receptors in Iraqi breast carcinoma women. International Journal of Advanced Research (2014), Volume 2, Issue 6, 168-177
- 30-**Hasan F.Al-Azzawie,Esraa H.hamudi and majed Al Maini (2013). Evaluation of proathrogenic and proinflammatory markers in obese polycystic ovary syndrome Iraqi patients International Journal of Pharma Sciences.Vol. 3, No. 5 (2013): 350-355
- 31-**Hasan F.Al-Azzawie;Zharh.M and Salwa al-Awadhi . Association of Adiponectin Gene Polymorphisms on Circulating Adiponectin in Iraqi Women with obese Polycystic Ovary Syndrome . International Journal of Advanced Research (2014), Volume 2, Issue 9, 511-517
- 32-**Ruaa A.jasem ,Jinan .M.Al-saffar and Hasan F.Al-Azzawie. Association of Interleukin -18 and CD40 in obese polycystic ovary syndrome. International Journal of Advanced Research (2014), Volume 2, Issue 6, 151-157.
- 33-**Hasan F.Al-Azzawie\* ;Naeim M and Ehab D.Saleman.Evaluation of enzymatic and non-enzymatic antioxidant status in seminal plasma of Iraqi Infertile Men . International Journal of Advanced Research (2014), Volume 2, Issue 6, 158-167
- 34-** Hasan .F. Al-Azzawie; Ruaa .A and Gazzi. M.Aziz.Ginger Attenuates Blood Pressure, Oxidant–antioxidant Status and lipid profile in the Hypertensive Patients. International Journal of Advanced Research (2014), Volume 2, Issue 9, 632-639.
- 35-** Hasan F.Al-Azzawie and Lena ayed. Evaluation of Anti Thyroid Antibodies Among Iraqi Women Suffering From Recurrent Abortion. International Journal of Advanced Research (2014), Volume 2, Issue 9, 504-510
- 36-** Hassan F. Al-Azzawie and Samah A.Abd .Effects of Crude Flavonoids from Ginger (*Zingiber officinale*), on Serum Uric Acid Levels, Biomarkers of Oxidative Stress and Xanthine

Oxidase Activity in Oxonate-Induced Hyperuricemic Rats . International Journal of Advanced Research (2015), Volume 3, Issue 10 , 1033 – 1039

**37-** Hasan F.Al-azzawie1\*, Nabaa S.Ibadi1 and Mohammed F.Al-Kotobe2 COMPARATIVE STUDY OF EGATLOV MEASUREMENT IN ISOLATED ADIPOCYTES CELLS FROM OBESE TYPE TWO DIABETIC PATIENTS AND HEALTHY CONTROLS . European Journal of Biomedical AND Pharmaceutical sciences. *ejbps*, 2015, Volume 2, Issue 3,

**38-** Hasan F. Al-Azzawie and Samah A. Abd. EFFECT OF SOME PLANT EXTRACTS ON SERUM URIC ACID LEVELS, AND XANTHINE OXIDASE ACTIVITY IN VITRO AND IN OXONATE-INDUCED HYPERURICEMIC RATS. EUROPEAN JOURNAL OF PHARMACEUTICAL AND MEDICAL RESEARCH. *ejpmr*, 2015,2(6), 55-61

**39-** Hasan F.Al-Azzawie1 , Laith A.Yaaqoob1 and Salah M.Muhsen2.Hypoglycemic and Antioxidant Effects of Zinc oxide nanoparticles in alloxan-Induced Diabetes Rats. International Journal of Advanced Research (2016), Volume 4, Issue 3 .

**40-** Hasan F.Al-Azzawie, Laith A.Yaaqoob(2016)Hypoglycemic and Antioxidant Effects of gold nanoparticles in alloxan-Induced Diabetes Rats . International Journal of Research in Biotechnology and Biochemistry 2016; 6(1): 12-20

41- Hasan F. Samir\* and Israa A. Alwan(2015)The Relationship between Single Nucleotide Polymorphism of Interleukin -10 Gene Promoter (-1082 A/G) with Recurrent Spontaneous Abortion in Iraqi Women. *BBB*[3][4][2015] 537-545

**42-**Esraa H Humadi Layla H Hamad, Hasan F Al Azzawie, Samera H (2017).Hamad4,\*Single Nucleotide Polymorphism of Interleukin-27 Gene: A Risk Factor of Recurrent Pregnancy Loss in Iraqi Women. *Electronic Journal of Biology*, 2017, Vol.13(2): 119-124

**43-** Hassan Al azzawie et al (2016).THE IMPACT OF 14-BP INSERTION/DELETION POLYMORPHISM IN EXON 8 OF HLA-G AND ITS EXPRESSION BY REAL TIME PCR AND IMMUNOHISTOCHEMICAL METHODS IN UNEXPLAINED MISCARRIAGE IRAQI WOMEN. *ejpmr*, 2016,3(12), 138-144

**44-** Hassan Al azzawie et al (2016). HLA-G 14 bp INSERTION/ DELETION POLYMORPHISM IN RECURRENT PREGNANCY LOSS AMONG A SAMPLE OF IRAQI WOMEN. *Int. J. Adv. Res.* 4(11), 1642-1647

45- Hassan Al azzawie et al (2016). GENETIC POLYMORPHISMS OF HLA-G ANTIGEN IN IRAQI WOMEN WITH UNEXPLAINED RECURRENT MISCARRIAGE. *Int. J. Adv. Res.* 4(11), 1654-1663

46- Saifuldeen Z AL-Darraji1, Hassan F AL-Azzawie1\* and Abbas M AL-Kharsani .Associations between TaqI Polymorphisms in Vitamin D Receptor Gene and Type 2 Diabetes Mellitus in Obese Iraqi Population. *Diabetes Metab* 2017, 8:4

47- Al-Darraji SZ1, Al-Azzawie HF1\* and Al-Kharsani AR2(2017)Vitamin D Status and its Receptor Genes BsmI, FokI, ApaI, TaqI Polymorphism in Relation to Glucose Metabolism in Obese Iraqi Type 2 Diabetes Mellitus Patients. *Mol Genet Med* 2017, 11:20

48. Tabarak S.Mahdi and Hasan F.al-azzawie. Hepatoprotective activity of *Albizia lebbek* flowers extract in CCl<sub>4</sub> induced liver toxicity mice.Iraqi J. of science (in press)

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