

1. Personal data

Name (Arabic)	إيناس عبد المنعم السيد إمام أحمد
Name (English)	Inas Abdulmonem Elsayed Ahmed
Department	Medical Biochemistry and Molecular Biology
College	Faculty of Medicine, Benha University & Benha National University.
Academic degree	Professor of Medical Biochemistry and Molecular Biology
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Recent Photo (passport format)	

2. Education:

Institution	Degree obtained	Year
Faculty of medicine – Benha University	M.D. medical biochemistry & molecular biology	2010
Faculty of medicine – Benha University	M.Sc in medical biochemistry and molecular biology (grade is Excellent).	2005
Faculty of medicine – Benha University	M.B.B.ch. grade is very good with honor degree.	1999

• Specialty:

General specialty	Medical Biochemistry
Specific specialty	Molecular Biology

• Language skills

Language	Reading	Speaking	Writing
Arabic	Mother tongue	Mother tongue	Mother tongue
English	Excellent	Excellent	Excellent
German	Good	Good	Good

3. Cooperation with local and international entities having website

Name of local and international entity	website
Institute of Human Genetics, Faculty of medicine, Eberhard Karls University, Wilhelmstr 27 D 72074 Tuebingen Germany	www.uni-tuebingen.de/uni/thm/molgen/molgen.html
Zentrum für Medizinische Forschung Klinik für Urologie MFT, Eberhard-Karls Universität Waldhörnlestr. 22 D 72072 Tübingen Germany	http://www.uro-tuebingen.de/aboutus/research/urological-oncology.html
Department of Hepatology, Gastroenterology, and Infectious Diseases Faculty of Medicine, Cairo University	https://endemic.kasralainy.edu.eg/
Biochemistry and Molecular Biology Unit Faculty of Medicine, Cairo University	http://www.kmis.medicine.cu.edu.eg/Special/Cu_FMED_SUNITA_Biolchem
Central Laboratory Unit Faculty of veterinary Medicine, Benha University	https://fvtm.bu.edu.eg/units-and-centers/centrallaboratory

4. Membership of professional bodies

- 1) Egyptian Medical Syndicate (1999- current).
- 2) *Egyptian Society of Biochemistry & molecular Biology (2010-current).*

- 3) *Board of Molecular Biology and Biotechnology Unit, Faculty of Medicine, Benha University (2012-2022).*
- 4) *Board of Central Laboratory Faculty of Medicine, Benha University (2018- current).*

5. Distinction and Awards

- Two-year scholarship to Germany for fulfillment of M.D degree in Medical Biochemistry and Molecular Biology (2006).
- Award of the Sixth place (Top ten) of the Graduates of the Year 1999 (cumulative total ranking for the six years of MBBCH degree), Faculty of Medicine, Benha University, EGYPT.

6. Academic

6. 1 Teaching

6.1.1 Courses at undergraduate level

Biochemistry of Enzymes	1 st year
Body fluids	1 st year
Detoxification	1 st year
DNA synthesis, transcription Regulation of gene expression	1 st year
DNA Mutation and repair mechanisms	1 st year
Biochemistry of cardiovascular system (CVS module)	1 st year
Biochemistry of protein metabolism	1 st year
Metabolism of carbohydrate	1 st year

Biochemistry of central nervous system and neurotransmitters (CNS module)	2 nd Year
Heme metabolism	1 st year
Individual amino acid metabolism & Inborn errors of metabolism	2 nd Year
Biochemistry of lipid metabolism	2 nd Year
Biochemistry of gastrointestinal system (GIT module)	2 nd Year

6.1. 2.Courses at post graduate level

DNA synthesis, transcription Regulation of gene expression
DNA Mutation and repair mechanisms
Metabolism of carbohydrate
Individual amino acid metabolism & Inborn errors of metabolism
Biochemistry of gastrointestinal system (GIT module)
Gel electrophoresis
PCR techniques and applications
Epigenetics

Areas of Research

- DNA methylation
- Cancer genetics
- Metabolic diseases
- Genetics of autoimmune diseases
- miRNA research
- Cancer Stem cells

6.2. PhD/MSc Supervision

Title		PhD/MSc	Year completed / in progress
1)	THE rs368698783 (G>A) GENE POLYMORPHISM IN PEDIATRIC BETA-THALASSEMIA PATIENTS: DOES IT AMELIORATE DISEASE SEVERITY?	MSc	In progress
2)	THE ROLE OF CIRC_0058063 AND MIR-145-5P AS A NON-INVASIVE DIAGNOSTIC TOOL OF URINARY BLADDER CANCER	MSc	In progress
3)	CIRCULATING MITOCHONDRIAL DNA AS PREDICTOR OF MORTALITY IN CRITICALLY ILL CHILDREN IN PEDIATRIC ICU	MSc	In progress
4)	ASSOCIATION OF VITAMIN D RECEPTOR GENE GENE POLYMORPHISMS (BSMI AND FOK1) WITH HCV QUANTITATION BY REAL TIME PCR IN HCV PATIENTS UNDER TREATMENT WITH SOVALDI	MSc	2024
5)	SOLUBLE CD163 AS A BIOMARKER FOR RENAL INVOLVEMENT IN SYSTEMIC LUPUS ERYTHEMATOSUS PATIENTS	MSc	2024

6)	STUDY OF MIR 145 PROMOTER METHYLATION STATUS IN PATIENTS WITH SUPERFICIAL UROTHELIAL BLADDER CANCER TREATED WITH BCG (BACILLUS CALMETTE-GUERIN).	MSc	2024
7)	INTERLEUKIN-18 GENE POLYMORPHISM AND ITS SERUM AND SEMEN LEVELS IN VARICOCELE PATIENTS	MSc	In progress
8)	IL-17 GENE POLYMORPHISM IS ASSOCIATED WITH SUSCEPTIBILITY TO LEPROSY INFECTION	MSC	2023
9)	ASSESSMENT OF TRANSIENT RECEPTOR POTENTIAL VANILLOID-1 GENE POLYMORPHISM IN ACNE VULGARIS PATIENTS	MSc	In progress
10)	STUDY OF 14-3-3 ETA PROTEIN IN JUVENILE IDIOPATHIC ARTHRITIS	MSc	2023
11)	SALIVARY CALPROCTIN LEVEL IN PATIENTS WITH ORAL LICHEN PLANUS	MSc	In progress
12)	EVALUATION OF SERUM CLAUDIN 3 LEVELS IN PATIENTS WITH CHRONIC IDIOPATHIC URTICARIA	MSc	2023
13)	EFFECT OF METHOTREXATE ON THE EXPRESSION OF TUMOR NECROSIS FACTOR-LIKE WEAK INDUCER OF APOPTOSIS IN PERIPHERAL BLOOD IN PSORIASIS VULGARIS	MSc	2022
14)	ASSOCIATION OF TBX2 3' UNTRANSLATED REGION POLYMORPHISM WITH SUSCEPTIBILITY OF CHILDREN TO CONGENITAL HEART DEFECTS	MSc	2022
15)	EVALUATION OF GENE EXPRESSION OF CXCL10 IN PATIENTS WITH VERRUCA VULGARIS	MSc	2022
16)	STUDY OF ADIPONECTIN PROMOTOR METHYLATION STATUS IN PATIENTS WITH NON ALCOHOLIC FATTY LIVER DISEASE	MD	2021

17)	CLINICAL RELEVANCE OF THIOPURINE METHYLE TRANSFERASE (TPMT) POLYMORPHISM IN CHILDREN WITH ACUTE LYMPHOBLASTIC LEUKEMIA DURING AND FOLLOWING MAINTANCE THERAPY	MD	2019
18)	COMPARATIVE STUDY OF THERAPEUTIC EFFECT OF THYROID TISSUE-MESENCHYMAL STEM CELLS CONJUGATE AND TISSUE ENGINEERED THYROID CELL SHEET IN HYPOTHYROIDISM	MD	2018
19)	STUDY OF TOLL LIKE RECEPTORS EXPRESSION IN SYSTEMIC LUPUS ERYTHEMATOSUS AND DERMATOMYOSITIS PATIENTS	MSc	2015
20)	OCT4 AND MIR-145 EXPRESSION IN BLADDER CANCER	MSc	2014
21)	STUDY OF TOLL LIKE RECEPTORS EXPRESSION IN PATIENTS WITH RHEUMATOID ARTHRITIS	MSc	2014
22)	SERUM PROHEPCIDIN CONCENTRATIONS IN PATIENTS WITH RHEUMATOID ARTHRITIS	MSc	2013
23)	MICRORNA EXPRESSION IN CHRONIC HEPATITIS C PATIENTS TREATED WITH PEGYLATED INTERFERON ALPHA	MSc	2012

6.3. Grants for Projects

Funding organization	Project title	Role	Year
Science & Technology Development Fund: www.stdf.org.eg .	Equipment maintenance of Molecular Biology and Biotechnology Unit, Faculty of Meccicine, Benha University	1. Principle investigator: Preparing & writing the application. 2. carrying out, Renewal and follow up of the project	2010

Project Management Unit, Ministry of Higher Education	Molecular Biology and Biotechnology Unit Continuous Improvement & Qualifying for Accreditation, according to ISO19185	- Technical manager of the project - Preparation and writing the application - follow up of the project - Carryout	2013
Scientific Research Fund – Benha University	Study of MicroRNA and DNA Methylation Changes in Patients with Bladder Cancer in Qaluybia.	- Principle Investigator of the project - Preparation and writing the application - follow up of the project - Carryout laboratory and Molecular analysis	2013
Scientific Research Fund – Benha University	Epigenetic alteration of microRNA-122 expression in non-alcoholic Fatty Liver Disease (NAFLD)	- Principle Investigator of the project - Preparation and writing the application - follow up of the project - Carryout laboratory and Molecular analysis	2016

6.4. List of Publications:

1. Awad M. Elabd, Somia H. Abd-Allah, Naglaa Ibrahim Azab, [Inas A. Ahmed](#), Hend Elsayed Nasr, Basma A. Ibrahim. **Comparative study of the therapeutic effect of thyroid tissue-mesenchymal stem cells conjugates and tissue-engineered thyroid cell sheets in hypothyroidism.** *Journal of Umm Al-Qura University for Applied Sciences, Sciences 2025*
<https://doi.org/10.1007/s43994-025-00257-y>

2. Reyad M. El-Sharkawy¹, [Inas A. Ahmed](#), and Taghrid G. Kharboush. **Fusarium oxysporum assisted green synthesis of small-sized silver nanoparticles for high antibacterial and photocatalytic decolorization performances.** *BMC Microbiology* 2025, 25:4
3. [Inas A. Ahmed](#), Taghrid G. Kharboush, Hiba S. Al-Amodi, Hala F. M. Kamel, Ehab Darwish, Asmaa Mosbeh, Hossam A. Galbt, Amal M. Abdel-Kareim and Shimaa Abdelsattar. **Interleukin-1 Beta rs16944 and rs1143634 and Interleukin-6 Receptor rs12083537 Single Nucleotide Polymorphisms as Potential Predictors of COVID-19 Severity.** *Pathogens* 2024, 13, 915.
4. Taghrid G. Kharboush, [Inas A Ahmed](#), Amina A. Farag, Tayseir Kharboush, Alaa-Din H, Sayed, Amal M. Abdel-Kareim, Mohammed Al mohaini, Hend Attia, Refaat A. Eid, Mohamed Samir A. Zaki¹³, Al-Shaimaa M. Al-Tabbakh. **Epigenetic alterations of *miR-155* and global DNA methylation as potential mediators of ochratoxin A cytotoxicity and carcinogenicity in human lung fibroblasts.** *Environmental Science and Pollution Research* 2024, 31:5473–5483.
5. Heba I Ghamry, Mustafa Shukry, Mohamed A Kassab, Foad A Farrag, Nagi M El-Shafai, Enas Elgendy, Amany N Ibrahim, Salwa A Elgendy, Ali Behairy, Samah F Ibrahim, Florin Imbrea, Crista Florin, Mohamed Abdo, [Inas A Ahmed](#), Marwa H Muhammad, Hala Anwer, Ahmed Abdeen. **Arthrospira platensis Nanoparticles Mitigate Aging-Related Oxidative Injured Brain Induced by D-galactose in Rats Through Antioxidants, Anti- Inflammatory, and MAPK Pathways.** *International Journal of Nanomedicine* 2023:18.
6. Amina A. Farag, Taghrid G. Kharboush, Noha H. Ibrahim, Mohamed Darwish, Iman M. Fawzy, Hanaa El-Sayed Bayomy, Dina Saad Abdelmotaleb, Shaza Abdul Basset Abdul Basset, Amal M. AbdelKareim, Mohammed Al mohaini, [Inas A. Ahmed,*](#) and Haidy M. Fakher. **Exploiting Signal Joint T Cell Receptor Excision Circle to Investigate the Impact of COVID-19 and Autoimmune Diseases on Age Prediction and Immunosenescence.** *Biomedicines* 2022, 10, 3193.

7. Fatma Mohamed El-Esawy, [Inas A. Ahmed](#), Asmaa Adel El-Fallah and Rehab Mohammed Salem. **Methotrexate mechanism of action in plaque psoriasis: Something new in the old view.** *J Clin Aesthet Dermatol.* 15(8):42-46. 2022.
8. Ebada M. Said, Abdelhamed A. Salem, Hend I. Shousha*, Enas S. Ahmad, Mahmoud A. Alazzouny, [Inas A. Ahmed](#), Hala M. Elfeky and Fatma M. Abdelsalam. **RECK gene polymorphisms in hepatitis B related hepatocellular carcinoma: A case-control study.** *Arab Journal of Gastroenterology* 23,2022: 201–205.
9. Eman Rateb Abd Almonaem, Doaa Refaey Soliman a , Marwa Abdel Monaem El Sayed, [Inas A. Ahmed](#), Eman G. Abdelrahman. **Association between SNP rs59382073 in TBX2 3' UTR and susceptibility to congenital heart diseases.** *Gene Reports*, 27, 2022, 101609
10. Noha I. Hussien, Hend S. El-wakeel, Safwa M. Souror and [Inas A. Ahmed](#). **Alleviation of cardiac mitochondrial dysfunction and oxidative stress underlies the protective effect of vitamin D in chronic stress-induced cardiac dysfunction in rats.** *Gen. Physiol. Biophys.*, 38: 51, 2019
11. Nesrine Ebrahim, Ola Mostafa, Rania Ebrahim El Dosoky, [Inas A. Ahmed](#), Ahmed S. Saad, Abeer Mostafa, Dina Sabry, Khalid Abdelaziz Ibrahim and Ayman Samir Farid. **Human mesenchymal stem cell derived extracellular vesicles/estrogen combined therapy safely ameliorates experimentally induced intrauterine adhesions in a female rat model.** *Stem Cell Research & Therapy*, 9:175, 2018.
12. Nesrine Ebrahim, [Inas A. Ahmed](#), Noha I. Hussien, Arigue A. Dessouky, Ayman Samir Farid, Amal M. Elshazly, Ola Mostafa, Walaa Bayoumie El Gazzar, Safwa M. Sorour, Yasmin Seleem, Ahmed M. Hussein and Dina Sabry. **Mesenchymal Stem Cell-Derived Exosomes Ameliorated Diabetic Nephropathy by Autophagy Induction through the mTOR Signaling Pathway.** *Cells*, 7, 226, 2018.
13. Maha Z Omar, Mohamed A Metwally, Hala M El-Feky, [Inas A Ahmed](#), Mohamed A Ismail, Amal Idris. **Role of intrafamilial transmission in high prevalence of hepatitis C virus in Egypt.** *Hepatic Medicine: Evidence and Research*, 14;9:27, 2017.

14. J.H. Sabry, O. S. El-Shaer, [I.A. Ahmed](#), E. M. Said, A. M. El Hammady, A. AH. Abdelmoneam and A.A .El Fallah, **Serum MicroRNA-122 as A Prognostic Biomarker in Patients with Liver Cirrhosis.** *Annals of Applied Bio-Sciences*, 3;286, 2016.
15. Reda Sanad Arafa, Ghada Saad Abdelmotaleb, Raneyah Hamdy Mahmoud Shaker, [Inas Abdulmonem Elsayed](#), Rabab Fawzy Salim Baioumy, Nesreen Mohamad Zain El Dean, Lamyaa Hussain Abdulrahman Seliem. **Seroprevalence of Measles, Rubella, Mumps and Varicella Specific Antibodies in Primary School Children.** *Middle East Journal of Family Medicine* , 14:21, 2016.
16. [IA Ahmed](#), CM Pusch, T Hamed, H Rashad, A Idris, AA El-Fadle, and N Blin. **Epigenetic alterations by methylation of RASSF1A and DAPK1 promoter sequences in mammary carcinoma detected in extracellular tumor DNA.** *Cancer Genet. Cytogenet.*, 2010; 199(2): 96100.
17. E. A. Baraka, [Inas A. Ahmed](#). **Toll-Like Receptors 4 And 9 Expression In Systemic Lupus Erythematosus And Dermatomyositis: Relation To Clinical Status And Disease Activity.** *Egyptian journal of Biochemistry and Molecular Biology*. 2015;33:6881
18. [Inas A. Ahmed](#), Basant M Elnady, Ghada Alfayomi, Marwa Y Mahgoub. **Serum IL17 and IL4R rs1805010 Genotypes: relationship with Rheumatoid Arthritis Disease Activity in Egyptian Patients.** *Egyptian journal of Biochemistry and Molecular Biology.*, 2017
19. Awad El-abd, Magdi El-sadek, [Inas A. Ahmed](#), Shuzan Ali Mohammed and Hend El-sayed: **MicroRNA expression in chronic Hepatitis C patients treated with combined pegylated interferon alpha and ribavirin therapy.** *Bull. Egypt. Soc. Physiol. Sci.* 2016, 36(1), 42-52
20. [Inas A. Ahmed](#), Amal Abou Elfadle and Ghada Saad Abdelmotaleb. **Value of Serum miR-146 as Biomarker for Early Diagnosis of Neonatal Sepsis.** *Bull. Egypt. Soc. Physiol. Sci.*

21. [Inas A. Ahmed](#), Amira Mansour, Basant M. Elnady, Shaza A. Abdul Basset, Iman Mohammad Fawzy. **Association of interleukin-1 receptor antagonist genetic variants with severity of knee osteoarthritis.** *Bull. Egypt. Soc. Physiol. Sci. Bull.* 2016, 36 (2), 85-95
22. Mohamed A. Metwally 1, Roshdy M. Khalaf Allah RM 2-4, [Inas A. Ahmed](#). **High Insulin Resistance is Associated with Low Rapid Virological Response in Chronic HCV Patients.** *Benha Medical Journal.* 2013, 30:573-588.
23. Mohammed M. Atta, Amal Edris Aly, Magdy A. Gad, Talal ElHefnawy, Mohammed E. El-Shewi and [Inas A. Ahmed](#). **Tumor Suppressor Genes (P16 and RASSF1A) Hypermethylation in Hepatocellular Carcinoma and Chronic Hepatitis C patients.** *The Medical Journal of Cairo University.* 2016, 84: 853-862.
24. Abdel Monem, M., El-Abd, A.M., Odah, M., Talaat, A., and [Abdulmonem, I.](#) **The effect of hyperglycemia on serum transforming growth factor- β 1 (TGF- β 1) level and their relations to diabetic nephropathy in patients with controlled type 2 diabetes mellitus.** *Bull. Egypt Soc. Physiol. Sci.,* 2005; 25(1):101-116.

6.5 Positions

	Date From – to	Organization	Country	Position	Role
1	March, 1 st .2000-February, 28 th 2001.	Benha University Hospitals	Benha-Egypt	House officer	Physician
2	May, 2001-January, 2002.	Health Affairs Authority, Kalubia	Benha-Egypt	Physician in charge	Physician

3	January, 2002- January, 2006	Department of Medical Biochemistry, Faculty of Medicine, Benha University	Benha- Egypt	Demonstrator	Teaching and research
4	January, 2006- March, 2010	Department of Medical Biochemistry, Faculty of	Benha- Egypt	Scholarship memeber	research

		Medicine, Benha University			
5	July, 2007- March, 2009.	Institute of Human Genetics, Faculty of Medicine, Eberhard-Karls University.	Germany	Assistant lecturer	Research
6	May2016- August 2016	Center for Medical Research Urology Hospital Eberhard- Karls University, Tuebingen	Germany	Visiting Researcher	Research
7	March, 2010- May, 2018	Department of Medical Biochemistry, Faculty of Medicine, Benha University	Benha- Egypt	Lecturer	Teaching and research
8	May, 2018- January 30 th , 2025	Department of Medical Biochemistry, Faculty of Medicine, Benha University	Benha- Egypt	Associate professor	Teaching and research

9	January 30 th , 2025 - Current	Department of Medical Biochemistry, Faculty of Medicine, Benha University	Benha-Egypt	professor	Teaching and research
10	May 2015-2019	Benha University	Benha-Egypt	International Relations Office	Coordinator of Faculty of Medicine
11	May, 2018-current	Central Laboratory for Research, Faculty of Medicine, Benha University	Benha-Egypt	Head	Management and training.
12	September, 2022- current	Faculty of Medicine, Benha National University (BNU)	El-Obour Egypt	Coordinator of “Principles of Biochemistry & Basics of Genetics” Module	Cordination & management
13	September 2023-current	Faculty of Medicine, Benha National University (BNU)	El-Obour Egypt	Research & Laboratory Committee	Coordinator
14	May 2024-current	Faculty of Medicine, Benha National University (BNU)	El-Obour Egypt	Curriculum Committee	Member
15	September 2024-current	Faculty of Medicine, Benha University	Benha-Egypt	4 th semester coordinator	Coordination & management

16	March 12 th . 2024-current	Faculty of Medicine, Benha National University (BNU)	El-Obour Egypt	Full-time staff member	Cordination & management
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6.7 Professional techniques and area of expertise

- Polymerase chain reaction (PCR) techniques.
- Single nucleotide polymorphism (SNP) analysis by RFLP And rtPCR.
- Gene expression studies.
- Electrophoresis.
- DNA methylation techniques.
- MiRNA, long non-coding and circular RNA studies.
- Enzyme linked Immuno-Sorbent Assay (ELISA).
- Cell culture studies.
- Stem cell research.
- Sequencing and bisulfite sequencing analysis.

7. Scientific activities

7.1 Attended Workshops, Symposiums, and Conferences

Name of Workshops, Symposiums, and Conferences	Year
إدارة الجودة الشاملة	2024
الجوانب المالية والقانونية في الجامعات	2024
الإدارة الجامعية	2024

إدارة الفريق البحثي	2024
BNU 2 nd Students medical conference Scientific committee	2024
Africa health EXcon	2022
التقييم الذاتي والمراجعة الخارجية	2021
أساسيات التحول الرقمي	2021
Third annual hybrid conference of CPHL. One health approach	2021
Verification Methods For Medical Testing Laboratories-EGA	2018
Real time PCR	2018
Basic Bioinformatics and Genomic analysis” 14th & 15th March, 2017	2017
Annual Scientific Congress of The Egyptian Society of Biochemistry & Molecular Biology (ESBMB). Cairo, Egypt, May 5-6, 2016.	2016
Workshop entitled (Support and follow up of research projects for young researchers in Benha university) on 22th October, 2014, Benha, Egypt.	2014
annual medical conference of Benha faculty of medicine "Improving Health Care & Emergency Services in Delta" 24th-26th April 2013 Ain-al-Sokhna, Egypt.	2013

genotyping using real time PCR, Benha faculty of medicine on 27th November, 2013, Benha-Egypt.	2013
Workshop entitled "Biomedical nanotechnology workshop" held at the medical technology center, Alexandria University on 7-9 April, 2012, Egypt	2012
Workshop entitled "Cancer stem cell- hands on training- at the premises of the holding company for biological products and vaccines - VACSERA under the auspices of the Egyptian society of stem cells - ESSCT in collaboration with international study group for stem cell therapy (ISGSCR) on 10th November, 2010, Cairo, Egypt.	2010
Annual Scientific Congress of The Egyptian Society of Biochemistry & Molecular Biology (ESBMB). Cairo, Egypt, April 28-29, 2010.	2010

7.2 Books published

- Principle of Medical Biochemistry.
- The Ideal guide to Medical Biochemistry

7.3 Service as Reviewer

- Pathogens
- International journal of molecular sciences
- Scientific reports

8. Digital competence user

- ICDL "International Computer Driving License" (2006):
- **ICT-certificate(s) 2022**

- good command of office suite (word processor, spread sheet, power point software) ▪
- good command of photo editing software

9. References:

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