

## Professor Saleem Ali Banihani, MSc., PHD, RFA, RCR, MLAS

### 1. Personal information (المعلومات الشخصية)

#### Contact information:

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- Full professor with seniority.
- Top 2% influential researchers in the world.
- Organized researcher award-JUST
- Distinguished teacher award-JUST/FAMS.
- Graduate studies award-JUST
- Cleveland Clinic appreciation award.
- MENA award
- Editor: "Andrologia" journal.

### Summary Statement

In 1994, Prof. Saleem Ali Banihani completed his secondary education at Irbid Secondary School before embarking on his academic journey at the School of Science, Jordan University of Science and Technology (JUST). He pursued his studies in Analytical Chemistry, specifically focusing on Medical Analytical Chemistry, with the support of a full scholarship. Throughout his undergraduate years, Prof. Saleem consistently demonstrated exceptional academic performance, earning recognition as one of the honored students on the dean's list.

After graduating from JUST in 1999, Prof. Saleem continued his educational pursuit in the School of Medicine, specifically in the Department of Medical Technology, specializing in Clinical Biochemistry (Medical Biochemistry). In 2002, he successfully obtained his master's degree. During his master's program, Prof. Saleem served as a dedicated full-time lecturer in the Department of Biochemistry and Molecular Biology, situated in the School of Medicine at JUST. His teaching and research abilities, coupled with his outstanding qualifications, played a pivotal role in his appointment to the esteemed position in Clinical Chemistry at the Department of Medical Laboratory Sciences, Faculty of Applied Medical Sciences (FAMS). This appointment was the result of a rigorous selection process that considered various candidates based on their expertise and qualifications.

Throughout his illustrious career, Prof. Saleem has consistently demonstrated remarkable teaching and research capabilities, propelling him to secure a full-time scholarship for the highly competitive Clinical Chemistry program offered jointly by Cleveland Clinic and Cleveland State University, OH. During his Ph.D., Prof. Saleem undertook a research fellowship in Andrology at the Reproductive Center of Cleveland Clinic, leading to the publication of numerous articles in esteemed international journals. His groundbreaking findings on the role of nutrients and antioxidant supplements in enhancing male fertility and

the success rates of Assisted Reproductive Technologies have had a global impact on the field of clinical biochemistry (Medical Biochemistry).

During his Ph.D., Prof. Saleem received several accolades, including the first oral presentation in international conferences, the distinction of being the best lecturer among Ph.D. students, the Molecular Medicine award, the Cleveland Clinic foundation appreciation award, and the student life award. As an honored Ph.D. student, Prof. Saleem also acquired a subspecialty in Molecular Medicine and graduated with the highest GPA (3.97) among his Ph.D. peers.

In 2011, Prof. Saleem joined the Department of Medical Laboratory Sciences (MLS) at Jordan University of Science and Technology (JUST) as an Assistant Professor. From 2012 to 2018, he held various administrative positions within the Faculty of Applied Medical Sciences (FAMS), including Chairperson of the Department of MLS and Vice Dean. During this tenure, Prof. Saleem demonstrated intellectual leadership and collective intelligence by establishing teaching and research laboratories, managing international accreditation processes, spearheading ISO compliance, developing academic programs, enhancing safety protocols in research and teaching laboratories, serving on numerous committees at both FAMS and JUST, initiating significant regulations, and winning the MENA award on behalf of JUST as a distinguished institution. Additionally, he played pivotal roles in highly ranked committees within the Ministry of Higher Education and Scientific Research and chaired the committee responsible for reviewing and developing the manual of quality assurance standards for faculties of Allied Medical Sciences in Jordan.

In 2016, Prof. Saleem was awarded a research fellowship in Responsible Conduct of Research from the University of California, San Diego. Moreover, he received an early promotion to the rank of Associate Professor that same year. In 2019, he was honored with the distinguished teacher prize at the FAMS level, and the following year, he earned a promotion to the rank of full Professor with seniority, a first for FAMS.

To date, Prof. Saleem has supervised more than 35 graduate students, with one of his student's earning recognitions for the best master's thesis at JUST in 2019. Alongside his supervisory roles, Prof. Saleem has successfully managed numerous local, national, and international grants and has published over 70 articles in highly reputed journals (Q1 and Q2). Notably, his research impact earned him recognition as one of the top 2% influential researchers worldwide, according to global reports published by Stanford University since 2020.

In addition to his research endeavors, Prof. Saleem has actively participated in more than 28 international conferences, where he has been invited as a keynote speaker, served on advisory boards, and assumed chairmanship roles for important conferences. Furthermore, he has completed over 35 professional independent courses and workshops, currently serving as the director for several workshops and courses on clinical biochemistry, clinical nutrition, reproductive bioethics, and Assisted Reproductive Technologies.

Prof. Saleem's published work, with its practical and technological applications and extension of basic knowledge, has garnered significant press coverage from renowned global websites, companies, and organizations. His research has led to the development of non-pharmacological treatments, diets, and medical protocols that have had a profound impact on human health. Presently, Prof. Saleem serves as an editor for the prestigious journal "Andrologia," specializing in the effects of diet, natural products, and medications on men's health and reproduction. He also serves as a reviewer for over 23 internationally recognized journals in the fields of biochemistry, clinical chemistry, human nutrition, and reproduction and is a member of several national and international scientific and social committees.

*Professor Saleem Banihani*

## Teaching, research, and service philosophy

As an educator in Medical Biochemistry (Clinical Biochemistry), I embrace the profound responsibility of equipping future medical professionals with knowledge that is not only relevant but also indispensable to their practice. It is my steadfast commitment to impart everything that is beneficial and pertinent to their specialization in Medical Biochemistry, ensuring they are well-prepared to navigate the complexities of medical science and patient care.

Central to my teaching philosophy is the unwavering dedication to accuracy and integrity in disseminating scientific information pertinent to clinical practice. I firmly adhere to the principles of academic rigor, relying on research-backed evidence and consensus within the medical and scientific community to guide my teachings. Transparency is paramount; I do not withhold or distort scientific facts from my students, fostering an environment of trust and intellectual honesty essential for future healthcare professionals.

Recognizing the dynamic nature of medical knowledge, I am deeply committed to continuous learning and self-improvement. I diligently update my understanding to reflect the latest advancements in Medical biochemistry, enabling my students to grasp the contemporary landscape of medical diagnostics and treatment modalities. By staying abreast of developments, I empower students to comprehend the modern scientific framework and inspire them to contribute meaningfully to the advancement of medical science.

Beyond academic excellence, I view myself as a moral compass and role model for my students. I endeavor to instill values of integrity, empathy, and compassion, guiding them not only in medical knowledge but also in ethical decision-making and patient-centered care. Through my actions and interactions, I aspire to cultivate virtues that transcend the confines of the classroom, nurturing compassionate healthcare professionals poised to make positive contributions to patient outcomes and societal well-being.

Integral to my teaching approach is humility and respect for diverse perspectives within the medical field. I acknowledge the limits of my expertise and refrain from discussing topics beyond my scope, while also valuing and honoring the experiences and perspectives of my students. I staunchly oppose discrimination in any form and foster an inclusive learning environment where every student, irrespective of background or identity, feels valued and respected.

Moreover, I am deeply invested in nurturing the autonomy and competence of my students in applying biochemical principles to clinical practice. Beyond imparting theoretical knowledge, I emphasize the cultivation of critical thinking skills, problem-solving abilities, and clinical reasoning. My aim is to foster independent and competent medical practitioners who are not only adept in biochemical principles but also equipped with the skills and resilience to provide quality patient care in diverse healthcare settings.

In essence, my teaching philosophy in Medical Biochemistry is founded upon the principles of excellence, integrity, compassion, and inclusivity. By embodying these values and principles, I aspire to empower my students to become proficient and compassionate healthcare professionals, dedicated to advancing medical science and improving patient outcomes in their future careers.

As a dedicated researcher in the field of medical biochemistry, my journey has been imbued with a profound sense of responsibility towards advancing the welfare of humanity. This commitment stems not only from my academic pursuits but also from a deeper calling to fulfill the noble directive of serving as a steward of health and well-being on this Earth, as articulated by the Caliphate.

In embracing the mandate to populate the Earth by addressing health challenges, both locally and globally, I recognize the pivotal role that scientific research plays in effecting

meaningful change. However, I am acutely aware that with this privilege comes a solemn obligation to uphold the highest standards of ethical conduct.

Central to my research ethos is an unwavering commitment to the ethics of scientific inquiry. I firmly believe that the integrity of research lies in the meticulous adherence to principles of accuracy, honesty, and transparency. Therefore, in all facets of my work, I strive to uphold these values, ensuring that the results I disseminate are not only reliable but also reflective of the truth.

Moreover, I am guided by a steadfast dedication to prioritizing the collective good over personal gain. While the pursuit of knowledge is undoubtedly a driving force in my endeavors, I recognize that the ultimate goal of research lies in its potential to alleviate suffering and improve the quality of life for individuals and communities. Consequently, I approach my work with a steadfast commitment to serving humanity, viewing research not as a means to fulfill personal ambitions, but rather as a vehicle for effecting positive change.

In essence, my research message is rooted in a profound sense of duty—to both the scientific community and the broader society. By upholding the principles of ethical conduct and prioritizing the well-being of others, I seek to contribute meaningfully to the advancement of medical biochemistry and, ultimately, to the betterment of human health worldwide.

*Professor Saleem Banihani*

<https://www.just.edu.jo/eportfolio/Pages/Default.aspx?email=sabanihani>

## 2. Education (التعليم)

Certificate	Field	School or University	Grade	Date of completion
<b>Ph.D Degree**</b>	Medical Biochemistry- Clinical Bioanalytical Chemistry/ Clinical Chemistry and Molecular Medicine	Cleveland Clinic/ Cleveland State University-USA	GPA (3.97) (Honored)	2011
<b>Research fellowship</b>	Center for Reproductive medicine/Andrology	Cleveland Clinic-USA	Excellent	2011
<b>Research fellowship</b>	Responsible conduct of research	California University- San Diego-USA	Excellent	2016
<b>Medical and Laboratory analysis Specialist</b>	Medical Laboratory Sciences with specialization in Clinical Chemistry (Medical Biochemistry).	Ministry of Health- Jordan		

<b>Master (M.Sc.)</b>	Medical Laboratory Sciences with specialization in Clinical Biochemistry (Medical Biochemistry).	Jordan University of Science and Technology-Jordan	Excellent (Honored)	2002
<b>*Bachelor's (B.Sc.)</b>	Analytical Chemistry - Medical Analytical Chemistry-Medical track	Jordan University of Science and Technology-Jordan	Very good- (Honored)	1999
<b>High school (directive)</b>	Scientific Stream	Irbid Secondary School- Jordan	Excellent	1994

\* Name was on the honor list during the BSc.

\*\*The highest GPA among the PHD graduates-Cleveland State/Cleveland Clinic-USA.

### 3. Experiences (الخبرات)

Experience	Period	Source of experience
<b>Professor with seniority</b>	Oct. 12, 2020 – Present	Jordan University of Science and Technology
<b>Acting dean, Faculty of Applied Medical Sciences.</b>	Jan 2018 - Feb 2018 Aug 2017- Sep 2017 Apr 2017 - Apr 2017 March 2017- March 2017	Jordan University of Science and Technology
<b>Vice dean, Faculty of Applied Medical Sciences -JUST</b>	Sep 2017- Sep 2018	Jordan University of Science and Technology
<b>Vice dean/ Faculty of Applied Medical Sciences -JUST</b>	Sep 2015- Sep 2017	Jordan University of Science and Technology
<b>Vice dean/ Faculty of Applied Medical Sciences -JUST</b>	Sep 2015- Sep 2016	Jordan University of Science and Technology
<b>Vice dean/ Faculty of Applied Medical Sciences -JUST</b>	Sep 2014- Sep 2015	Jordan University of Science and Technology
<b>Chairperson of Department of Medical Laboratory Sciences.</b>	Sep 2012 – Sep 2014	Jordan University of Science and Technology

<b>Associate Professor, Department of Medical Laboratory Sciences.</b>	2016 – Present	Jordan University of Science and Technology
<b>Assistant Professor, Department of Medical Laboratory Sciences.</b>	Sep 2011 – 2016	Jordan University of Science and Technology
<b>Faculty Member, Faculty of Medicine (Adjunct faculty)</b>	2014/2015	Yarmouk University
<b>Fellowship in Responsible Conduct of Research</b>	July 2015- July 2016	University of California San Diego/JUST
<b>Research Fellowship in Reproductive Medicine/Andrology</b>	2008-2011	Cleveland Clinic/USA
<b>Teaching Assistant and Lecturer in clinical chemistry and molecular medicine.</b>	2007-2011	Cleveland State University/USA
<b>Lecturer and Laboratory Supervisor in clinical chemistry, biochemistry, and molecular biology.</b>	2002- 2007	Jordan University of Science and Technology- Faculty of Applied Medical Sciences- Department of Medical Laboratory Sciences  Faculty of Medicine – Department of Biochemistry and Molecular Biology.

#### 4. Workshops and Courses (الورش والدورات و الندوات)

Workshops, courses and seminars	Period	Source
1. <b>Computer (windows, WinWord, internet, excel, power point)</b>	12/2/2000 to 13/6/2000	Al-Yarmouk University-Consultations center
2. <b>Seminal fluid analysis and sex hormone measurements- Training</b>	June –August-2001	Princess Basma Teaching Hospital.
3. <b>Chemical Analysis in biochemistry, organic chemistry, water treatment, HPLC, GC and other biological and chemical analysis.</b>	July/1997 and August/1997 (2 months)	Royal Scientific Society (RSS)- Amman

4. <b>Laboratory safety and management of chemicals and hazardous materials.</b>	February/1-2/2006	Jordan University of Science and Technology/Unit of Operation and Management.
5. <b>Polymerase chain reaction and applications (PCR).</b>	19- 21 September 2006.	Princess Haya Biotechnology Center / Jordan University of Science and Technology.
6. <b>Laboratory Proficiency Testing</b>	May/ 30 <sup>th</sup> /2007	Royal Scientific Society (RSS) – Amman.
7. <b>Testing and evaluation</b>	1-2 February, 2012	Academic Development and Quality Assurance Center- Jordan University of Science and Technology
8. <b>Statistical Package for Social Sciences</b>	8-9 July, 2012	Academic Development and Quality Assurance Center- Jordan University of Science and Technology
9. <b>Memmert CO<sub>2</sub> incubators Applications in Stem Cells and IVF-Workshop.</b>	November 6, 2013	Grand Hyatt Hotel-Amman Jordan
10. <b>Research bioethics –Intensive course</b>	July 25 – July 30, 2015	Jordan University of Science and Technology
11. <b>Collaborative Institutional Training Initiative (CITI-program)</b>	Oct 8 – Oct 25, 2015	University of Miami/JUST
12. <b>Ethics and epidemiology course</b>	Oct 1 – Dec 10, 2015	University of California-San Diego
13. <b>Chair of the committee to review the manual of quality assurance standards for faculties of Allied Medical Sciences in Jordan.</b>	Jan 14- Feb 20, 2016	Higher Education Accreditation Commission.
14. <b>Research Bioethics course (Ongoing)</b>	Jan 4 – 10 March	University of Miami-USA
15. <b>Assessment and Innovation Teaching Methods in Applied Medical Sciences</b>	March 19-20, 2016	Jordan University of Science and Technology
16. <b>Committee chair to accredit and review the academic standards at Aden University/ Yamen.</b>	March 2013- Feb 2014	Aden University/Jordan University of Science and Technology.

17. <b>An objective structured clinical examination (OSCE)</b>	August-2015	Academic Development and Quality Assurance Center- Jordan University of Science and Technology
18. <b>How to perform a Self-assessment for an academic program?</b>	December-2016	Academic Development and Quality Assurance Center- Jordan University of Science and Technology
19. <b>Assessment &amp; Innovative Teaching in Applied Medical Science</b>	January 19 – January 20, 2016	Academic Development and Quality Assurance Center- Jordan University of Science and Technology
20. <b>"Road map for building and formulating a strategic plan for colleges"</b>	July 20, July 27-2017	Academic Development and Quality Assurance Center- Jordan University of Science and Technology
21. <b>Development of Curriculum and Study plans</b>	January 17 – 18, 2018	Academic Development and Quality Assurance Center- Jordan University of Science and Technology
22. <b>International Organization for Standardization (ISO)- 9001:2015</b>	February-25-28, 2018	Academic Development and Quality Assurance Center- Jordan University of Science and Technology
23. <b>Workshop on transferring to the specification of ISO9001:2015</b>	June 25, 2018	Academic Development and Quality Assurance Center- Jordan University of Science and Technology
24. <b>Online learning Design.</b>	July 19, 2018 July 26, 2018	Academic Development and Quality Assurance Center at Jordan University of Science and Technology
25. <b>Bio-risk management (BRM) curriculum development workshop</b>	August 12 - 16, 2018.	Sandia National Labs. Amman.
26. <b>Problem-Based Learning</b>	August 8 - 9, 2018.	Academic Development and Quality Assurance Center at Jordan University of Science and Technology
27. <b>Excellence in scientific research: from idea to application.</b>	July 4, 2019. July 11, 2019.	Academic Development and Quality Assurance Center at Jordan University of Science and Technology



28. <b>Assisted Reproductive Technologies</b> <i>(Establisher and Director of the course)</i>	August 25, 2019 - September 29, 2019	Consultative Center for Science and Technology & Faculty of Applied Medical Sciences
29. <b>Assisted Reproductive Technologies- (Director)</b>	September 1, 2020 – October 10, 2020	Consultative Center for Science and Technology & Faculty of Applied Medical Sciences
30. <b>Assisted Reproductive Technologies- (Director)</b>		
31. <b>Assisted Reproductive Technologies- (Director)</b>	July 18 – August 25, 2021	Consultative Center for Science and Technology & Faculty of Applied Medical Sciences
32. <b>Assisted Reproductive Technologies- (Director)</b>	November 14, 2021 – December 20, 2022	Consultative Center for Science and Technology & Faculty of Applied Medical Sciences
		Consultative Center for Science and Technology & Faculty of Applied Medical Sciences
33. <b>Assisted Reproductive Technologies- (Director)</b>	Registered: January 21, 2022.	Consultative Center for Science and Technology & Faculty of Applied Medical Sciences
34. <b>BRM Curriculum Introduction and Integration</b>	27-28 June, 2022	Royal Scientific Society.
35. <b>Authorship and conflict of interest workshop at FAMS (Director)</b>	December 4, 2022	Jordan University of Science and Technology.
36. <b>Evaluation of the Laboratory Medical Sciences Program at the University of Science and Technology-Yemen (International arbitrator)</b>	March 29, 2023	University of Science and Technology at Aden (Online workshop)
37. <b>Seminar: Commercialization of University Research Outputs, an open discussion.</b>	October 4, 2023.	Center of Excellence for Innovative Projects Jordan University of Science & Technology
38. <b>How to Design your Online Course.</b>	January 18, 2024	Center of E-learning and Open Educational Resources-Jordan University of Science and Technology.
39. <b>Assisted Reproductive Technologies- (Director)</b>	February 4, 2024 – March 13, 2023.	Consultative Center for Science and Technology & Faculty of Applied Medical Sciences

## 5. Teaching courses (المساقات التدريسية)

- ADVANCED MEDICAL BIOCHEMISTRY
- ADVANCED CLINICAL BIOCHEMISTRY I
- ADVANCED CLINICAL BIOCHEMISTRY II
- ADVANCED CLINICAL BIOCHEMISTRY III
- ADVANCED CLINICAL CHEMISTRY PRACTICAL TRAINING 1
- ADVANCED CLINICAL LABORATORY TRAINING
- ADVANCED CYTOGENETIC DIAGNOSTIC PRACTICAL TRAINING
- BIOCHEMISTRY
- BIOCHEMISTRY HOSPITAL LABORATORY PRACTICE
- CLINICAL BIOCHEMISTRY (1)
- CLINICAL BIOCHEMISTRY (1)
- CLINICAL BIOCHEMISTRY (1) PRACTICAL
- CLINICAL BIOCHEMISTRY (1) LAB
- CLINICAL BIOCHEMISTRY (2)
- CLINICAL BIOCHEMISTRY (2) PRACTICAL
- CLINICAL BIOCHEMISTRY(II)
- CLINICAL BIOCHEMISTRY(II) (LAB)
- CLINICAL LABORATORY INSTRUMENTATION
- COMPREHENSIVE EXAM
- HEMATOLOGY
- HEMATOLOGY (LAB)
- HEMATOLOGY HOSPITAL LABORATORY PRACTICE
- HORMONES AND ENDOCRINE GLANDS
- MICRO TECHNIQUES
- MOLECULAR DIAGNOSTIC AND CYTOGENETIC (LAB)
- SEMINAR
- REPRODUCTIVE ETHICS -SCHOOL OF PHARMCHY.
- GNERAL MEDICAL BIOCHEMISTRY-SCHOOL OF MEDICINE (Yarmouk University).
- ADVANCED NUTRITIONAL BIOCHEMISTRY

## 6. Scientific Research (البحث العلمي)

### A. Master thesis:

Clinico-hormonal Correlation of Oligospermic Patients in the Below Sea Level Environment.

### B. Doctoral dissertation:

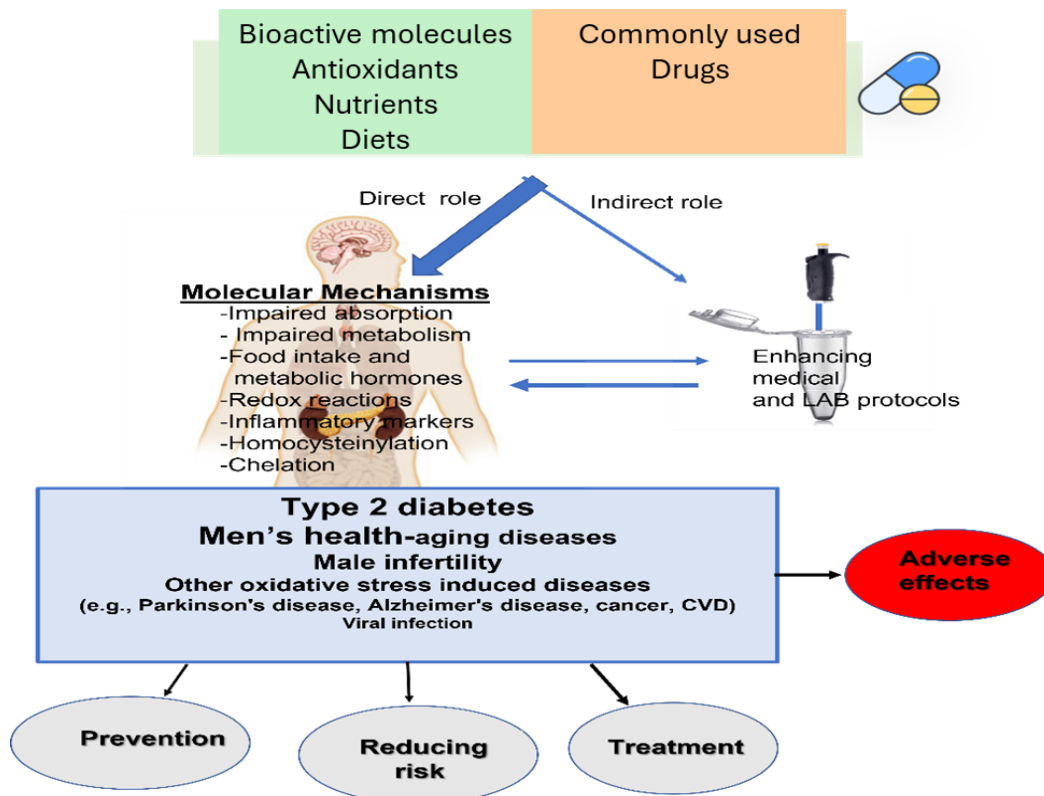
Semen Quality and Chemical Oxidative stress, Quantification and Remediation.

### C. Research interests:

*“I believe that nature serves as the original pharmacy of the world. The consumption of diets rich in natural nutrients and therapeutic bioactive molecules derived from whole foods and natural products represents a superior and potent approach for managing a diverse array of human diseases and disorders. In comparison to synthetic medicines, diets and natural nutrients take precedence due to their efficacy and a lower likelihood of adverse effects, both known and potentially "unknown," on human health. This emphasis on natural sources aligns with a holistic and sustainable approach to healthcare.”*

My main research interest is to study the role of certain types of bioactive molecules, nutrients, and natural products in eliminating the risk of aging diseases, with a focus on type 2 diabetes, enhancing men’s health, male infertility, and other oxidative stress induced disorders such as Parkinson's disease, Alzheimer's disease, cancer, and CVD. We attempt to provide practical and technological solutions/interventions, including prevention, reducing risk, and/or treatment of the disease using certain bioactive molecules, diets, or nutrients (**scheme 1**). Besides, in each study we attempt to explain and present, most of time new or modified, molecular mechanisms action, particularly hormonal actions, of the tested bioactive molecules, foods, diets, or nutrients in the disease management. In the last 3 years, I also become interested to conduct global studies and surveys to resolve the controversy and reestablish global published consensus on many medical and laboratory interventions in the field of medical biochemistry, including effectiveness and role of nutrients, antioxidants, and nutritional supplements of a global use to enhance men’s health and reproduction, and increase success rates of assisted reproductive technologies such as artificial insemination.

On the other side, the second track of my research interests is to explore the effects of commonly used drugs on men’s health and male fertility as well as the artificial insemination protocols, then explain the unknown molecular mechanisms of their effects in the body in order to afterwards explore the synergistic or antagonistic practical applications of these drugs with some diets and nutrients.



Scheme 1: Main research track.

#### D. Grants and courses revenues:

##### *a. Local research grants-Deanship of research/JUST*

As PI: (Total amount ~ 148957.54 \$):

1. Association between Resistin Gene Polymorphism and Atopic Dermatitis. (Grant # 345-2014) (Closed). **Amount: 9180.79 \$**
2. The Association between Atopic Dermatitis and Leptin Gene Polymorphism. (Grant # 343-2014) (Closed). **Amount: 6567.79 \$**
3. Magnitude of chromium deficiency among Jordanians with pre-diabetes and early stages of type 2 diabetes. (Grant # 94-2015) (Closed). **Amount: 9251.41 \$**
4. Evaluation of Tempol, L-carnitine and Pentoxifylline for Life Span Enhancing Activity: Genetic and Molecular Approaches. (Grant # 422-2015). (Active). **Amount: 8686.44 \$**
5. Short-term effect of pomegranate juice on blood sugar and its controlling hormones in pre-diabetic and type II diabetic patients. (Grant # 20120189) (Closed).

**Amount: 9533.89 \$**

6. Effect of drinking fresh Punica Granatum juice on fasting blood levels of, melatonin, insulin, and glucose in people with impaired glucose tolerance. (Grant # 20120135) (Active). **Amount: 9859.15 \$**
7. Evaluation of Tempol, L-carnitine and Pentoxifylline for Life Span Enhancing Activity: Genetic and Molecular Approaches. (Grant # 422-2015) (Active). **Amount: 11158.19 \$**
8. Effect of Lansoprazole on human sperm motility, viability, and DNA oxidation. (Grant # 48-2016) (Active). **Amount: 9180.79 \$**
9. Effect of histamine 2 receptor antagonists (famotidine and ranitidine) on embryo development. (Grant # 411-2016) (Active). **Amount: 41242.93 \$**
10. Seminal Levels of Vitamin B6 in Asthenozoospermic Patients. (Grant # 2018-0156) (Active). **Amount: 5367.23 \$**
11. Effect of omeprazole on human sperm motility, viability, and DNA oxidation. (Grant # 2017-0353) (Active). **Amount: 5480.22 \$**
12. The Effect of Caffeine on Nitric Oxide Production in Human Sperm. (Grant # 125-2019) (Active). **Amount: 8954.90 \$**
13. Effect of aspirin on human sperm motility, sperm viability, sperm DNA oxidation, and seminal nitric oxide level. (Grant # 639-2019) (Ongoing). **Amount: 7344.63 \$**
14. Seminal creatine kinase, paraoxonase-1, and hyaluronidase activities in the presence of aspirin and paracetamol. (Grant #: 639-2019) Amount: **4915 \$**.
15. Homocysteine level in early diagnosed patients with bladder cancer. (Grant #: 561-2022) Amount: **6197 \$**.
16. Hookah smoking and its effect on the level of zinc, magnesium, and activity of creatine kinase in human semen. (Grant #:575-2022) (**4309 \$**).

**As Co-PI (Total amount \$ 34432):**

1. Nazzal, M., **Bani Hani, S.** & Abu Alhaija, D. (2016). Measurement of lead in low-cost plastic children toys in Jordan. Grant # (26/2015). Deanship of Scientific Research, JUST, Irbid, Jordan. **Amount: \$ 8591**

2. Nazzal, M., **Bani Hani, S.** & Ababneh, S. (2016). Lead and arsenic levels in Jordanian children with autism spectrum disorders. Grant # (252/2015). Deanship of Scientific Research, JUST, Irbid, Jordan. **Amount: \$ 8450**
3. Haddosh, H.; **Banihani SA.** Serum levels of dopamine and brain-derived neurotrophic factor in patients with parkinson's disease pre and post transcranial direct current stimulation. (Grant # 179/2016). **Amount: \$ 7949**
4. Haddosh, H.; **Banihani SA.** Effects of Bilateral Anodal Transcranial Direct Current Stimulation On Melatonin Serum Level in Patients with Parkinson's Disease. (Grant #: 7/2019). **Amount: \$ 2816**
5. Atrooz O.; **Banihani SA.** The effect of alcoholic extraction of *Anabasis syriaca* on some biochemical and hematological parameters in Rats. (Grant # 2019). **Amount: ~ \$ 6626**
6. **B. Capacity building grant-Establishing ART research LAB. (Amount 41714\$)**
  - a. *Effect of histamine 2 receptor antagonists (famotidine and ranitidine) on embryo development.* (Grant # 411-2016).

**C. National and International grants:**

1. PI: **Saleem Ali Banihani.** Establishing and evaluation a Medical Laboratory Sciences program at Aden University/ Yamen-2014. (Total amount (32000\$).
2. **Saleem A. Banihani,** Rowida Al-Momani, Omar khabour. Risk of homozygosity of pathogenic genetic variants among consanguineous marriages in the Jordanian population. (*Scientific Research & Innovation Support Fund*). *Initial acceptance.* Amount (134000 \$).
3. **PI: Saleem Ali Banihani.** ART courses at Consultative center and Faculty of Applied Medical Sciences of JUST Amount (39613.7 \$).
4. SRHR research in Jordan' within the Sexual and Reproductive Health and Rights (SRHR) Research Programme. "Early Marriage Practice among Jordanian and Syrian Refugees/Jordan: Women Sexual and Reproductive Rights" (application number: W 08.56016.006). (Amount € 185300) (Submitted).
5. **Saleem Banihani**-Instructor for male infertility bioethics in the grant entitled "Masters Program in Responsible Conduct of Research". National Institute of Health-USA-(Ongoing).
6. Co-PI: Incidence of Non-classical congenital adrenal hyperplasia in adult Jordanian females diagnosed with polycystic ovary syndrome. Al-Ahliyya Amman University (~2112 \$).
7. Instructor in the Fogarty NIH Responsible Conduct of Research Training Program in Jordan-Jordan University of Science and Technology.

## 7. Publications (المنشورات)

**\*One of the top 2% influential researchers in the world according to the report published by Stanford University (2020-2023). (High impact in the list)**

**Links:**

<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw>

[https://data.mendeley.com/datasets/btchxktzyw/2?fbclid=IwAR3a44\\_PJxEcHplwLvtTLRQh5xBywsogKd-CVbnfgWxMomWmRhmXCA\\_QqNE](https://data.mendeley.com/datasets/btchxktzyw/2?fbclid=IwAR3a44_PJxEcHplwLvtTLRQh5xBywsogKd-CVbnfgWxMomWmRhmXCA_QqNE)

<https://www.just.edu.jo/Deanships/DeanshipofResearch/Documents/top2percent.pdf>

Year	1. Publications (Journal articles)
2024	<b>Saleem A. Banihani</b> , Ahlam F. Al-Gharaibeh, Omar M. Halalsheh, and Refat M. Nimer. Homocysteine Level in Early Diagnosed Patients with Bladder Cancer (Preprint-Heliyon).
2024	<b>Saleem A. Banihani</b> . Role of Lipoic Acid in Testosterone Production in Males. World Journal of Men's Health. (Accepted).
2024	Suad M. Klouba and <b>Saleem A. Banihani</b> . Exploring associations between pregnancy cravings and sociodemographic, lifestyle, and health factors: Insights from a cross-sectional population study in Jordan. BMJ open. BMJ Open 2024;14:e078082. doi:10.1136/bmjopen-2023-078082
2023	Ala'a Farkouh, Ashok Agarwal, Taha Abo-Elmagd Abdel-Meguid Hamoda, ..., <b>Saleem A. Banihani</b> ... Rupin Shah. Ramadan Saleh Controversy and Consensus on the Management of Elevated Sperm DNA Fragmentation in Male Infertility: A Global Survey, Current Guidelines, and Expert Recommendations. World J Mens Health .2023 Apr 20. doi: 10.5534/wjmh.230008. Online ahead of print. <a href="https://pubmed.ncbi.nlm.nih.gov/37118965/">https://pubmed.ncbi.nlm.nih.gov/37118965/</a>
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2024	<b>Saleem Banihani</b> . Antioxidant treatments: Role of dietary antioxidants in the management of type 2 diabetes. <b>Book:</b> Biomarkers of Oxidative Stress: Generation in Human Diseases and Assessment. (Final Production).

## 2. Conferences:

### *a. Presentations (published abstracts)*

1. Saleem Ali Banihani and Shefaa Aljabali. Reduced Seminal Plasma Vitamin B6 Levels in Men with Subfertility: A Promising Avenue for Male Infertility Management. Qatar International Conference on Obstetrics and Gynecology (QICOG). 29 February – 2 March 2024, Doha, Qatar.
2. Saleem Ali Banihani and Reema Shatnawi. Aspirin decreases human sperm motility and vitality, chelates seminal calcium, but insignificantly reduces seminal nitric oxide production. 10th International Conference of The Royal Medical Services. King Hussein Bin Talal Convention Center - Dead Sea - Jordan, 7-10 March 2023.
3. Saleem Ali Banihani and Falak Khasawneh. 2nd World Congress on Polycystic Ovarian Syndrome and Fertility. December 09-10, 2019, Dubai, UAE.

4. Saleem Banihani (**Chair of the conference and Keynote speaker**). Effect of urate, a product of purine nucleosides catabolism, on sperm function *5th World Congress on Epigenetics and Chromosome*. November 15-16, 2018, Istanbul, Turkey.
5. Muhammed Al-Jarrah, Hikmat Haddoush, Saleem Bani Hani, Nour Erekat. Bilateral anodal transcranial direct current stimulation could attenuate the activity of oxidative stress serum biomarkers in patients with Parkinson's disease. 22nd International Conference on Neurology and Neurophysiology & 23rd International Conference on Neurology and Neurosurgery. 23rd-25th April 2018. Rome, Italy.
6. Saleem Banihani. Authorship is an ongoing challenge. *3<sup>rd</sup> International Conference on Ethics in Jordan: Authorship and Publication*. Jordan University of Science and Technology, July 2018, Irbid-Jordan.
7. Saleem Banihani. Role of Pentoxifylline, a potential antioxidant drug, in human sperm function. *3rd ISANH Middle East Antioxidants World Congress*. May 2, Amman, 2018.
8. Saleem Banihani. Effect of Cobalamin on Sperm Function. *World Congress on Pharmacology & Chemistry of Natural Compounds*. Oct 10, 2017, Tbilisi, Georgia
9. Saleem Banihani. Beta-blockers and sperm function. *7th Euro-Global Summit on Toxicology & Applied pharmacology*, At Rome, Italy, Volume: 6.
10. Saleem Banihani. Effect of fresh pomegranate juice on the level of fasting serum glucose, insulin, and melatonin in pre-diabetic individuals. *8th Euro Global Diabetes Summit and Medicare Expo*; 11/2015.
11. Saleem Banihani. L-carnitine exhibits a significant capability to bind free calcium, which could be a reason for a number of varying effects in cellular systems. *22nd International Congress of Clinical Chemistry and Laboratory Medicine (IFCC Worldlab 2014)*, Istanbul; 06/2014.
12. Saleem Banihani. Fresh Pomegranate Juice decreases Fasting Serum Glucose and Ameliorates Insulin Resistance in Type 2 Diabetic Patients. *7th International conference of the Royal Medical Services*, Dead Sea; 11/2014.
13. Banihani S, Seham M., Reham F, Khabour O, El-Akawi Z, Gharaibeh M, Saadah N, Khaseeb N. The short-term effect of pomegranate juice on the level of fasting serum glucose in type 2 diabetic patients. *2013 Jordan Society for Medical Laboratory Sciences (JSMLS) Annual Meeting*. Amman, March 23-25, 2013.
14. Saleem Bani Hani, Rakesh Sharma, Ashok Agarwal, Mekki Bayachou. Detection of Nitric Oxide in Human Spermatozoa using the Fluorescent Probe 4,5-Diaminofluorescein Diacetate Analyzed by Flow Cytometry. *55th Annual SAS/ACS/AVS may conference*, June-2011; John Carroll University-University Heights-Ohio.
15. Saleem Bani Hani and Bayachou Mekki. *Salvia Fruticosa* Mediates Protection Against H<sub>2</sub>O<sub>2</sub>-Induced DNA Damage in HEK293 Cells. Abstracts of Papers, *240<sup>th</sup> ACS National Meeting*, Boston, MA, United States. 08/2010.

16. Saleem Bani Hani, Reda Mahfouz, Rakesh Sharma, Ashok Agarwal, Mekki Bayachou. L-carnitine Improves Human Sperm Quality during Sperm Preparation for IVF, *MIM-meeting/Cleveland State University*, 2010, Cleveland, OH.
17. Saleem Bani Hani, Minjeong So, Reda Mahfouz, Rakesh Sharma, Ashok Agarwal, Mekki Bayachou. Human Sperm Quality during Sperm Preparation for IVF: Effect of sperm centrifugation – *GSIRC conference at Cleveland State University*, 2010, Cleveland-OH.
18. Saleem Bani Hani, Ashok Agarwal, Rakesh Sharma, Mekki Bayachou. Measurement of Intracellular Nitric Oxide in Human Sperm Using Flow Cytometry; *ACS-MIM-2011 meeting*; Pepper Pike, OH.
19. Saleem Bani Hani, Ashok Agarwal, Rakesh Sharma, Minjeong so, Mekki Bayachou. Effect of centrifugation on quality of spermatozoa prepared for assisted reproduction annual *Midwest meeting*, March-2011; Toledo, OH.
20. Rakesh Sharma, Saleem Bani Hani, Mekki Bayachou, Ashok Agarwal, Edmund Sabanegh, Sajal Gupta. The protective role of L-carnitine in improving sperm motility and viability following sperm preparation protocols used in assisted reproductive technologies. *American Society of Andrology (ASA) 36<sup>th</sup> national meeting*, April 2011; Montreal, Canada.

### ***b. Participation***

21. Primary Health Care and Health Well-Being. 1 August 2022-Jordan University of Science and Technology, Jordan.
22. International Conference on Applied Chemistry and Biotechnology. Al-Balqa Applied University, Al-Salt – Jordan, from May 10th-12th, 2022.
23. Education Beyond 2021: Exploring new horizons for international education in a disruptive world?. March 30th- 31st 2021. UK-Jordan (Virtual conference).
24. The 2nd International Conference on Ethics in Jordan: Clinical Trials. August 2nd, 2017
25. 1<sup>st</sup> national conference in paramedics. JUST/ Jordan, 12/2015.
26. 1<sup>st</sup> Meeting on autism spectrum disorder. JUST/Jordan, 5/2015.
27. The second conference of Jordan universities in Rehabilitation Sciences at Jordan University of science and technology. Tuesday 08/11/2016



28. 2nd International Conference of Applied Medical Sciences\PARAMEDIC. Jordan University of Science and Technology. "Middle East Mitigation". 13th-14th of December.

29. 3rd Paramedic International Conference at the Faculty of Applied Medical Sciences, Jordan University of Science and Technology (JUST). November 5-6, 2017.

## 8. The practical and technological impact of published research-press coverage.

(التأثير التطبيقي والتكنولوجي للبحوث المنشورة-تغطية اعلامية)

\*The press interview with the distinguished academics - Jordanian Illuminations

(المقابلة الصحفية مع الاكاديميين المتميزين-اضاءات اردنية)

<https://youtu.be/7yt3-uDKz5U>

\*The press interview with the British Al-Fanar Media for Arab scientists in the Arab world (المقابلة الصحفية مع قناة الفنار البريطانية للعلماء العرب في الوطن العربي)

Research Helps Arab Couples Struggling to Conceive-The role of some types of food and nutritional supplements.

(أبحاث علمية تساعد الأزواج العرب على الإنجاب- دور بعض انواع الغذاء والمكملات الغذائية)

<https://www.al-fanarmedia.org/2015/01/research-helps-arab-couples-struggling-conceive/>

\*Published studies, particularly on the role of certain foods, diets, and nutrients in humans' health and disease management and prevention, as references in various global health and medical websites, companies, and organizations.

1. AM life-style medicine.

<https://amlifestylemedicine.com/en/pan-roasted-radishes-with-garlic-and-parsley/>.

2. Does Drinking Milk with Honey Increase Sperm Count?

<https://www.curejoy.com/content/drinking-milk-honey-increase-sperm-count/>

3. MOOLI

<https://www.1mg.com/ayurveda/mooli-67>.

4. Why Are Pomegranates Good for Diabetics? 4 Reasons.

<https://www.curejoy.com/content/are-pomegranates-good-for-diabetics/>

5. Is Ibuprofen Bad for Sperm?

<https://ttcjourney.com/is-ibuprofen-bad-for-sperm/>

6. Boost Testosterone Naturally! Home Remedies! Foods to Eat.

<https://www.docarzt.com/boost-testosterone-naturally-home-remedies-foods-to-eat/>

7. Antioxidant-rich pomegranate juice may aid blood sugar management for diabetics: Human data.

<https://www.newtowninternalmedicine.com/single-post/2017/12/09/The-Benefits-Of-Pomegranates>

**8. Ginger for Boosting Testosterone: Here's What Research Says.**

<https://www.vedicpower.org/ginger-for-boosting-testosterone-heres-what-research-says/>

**9. Try This: 15 Foods for Strong, Healthy Sperm.**

<https://www.healthline.com/health/mens-health/food-for-strong-sperm>

**10. BENEFITS OF POMEGRANATE.**

<https://www.1mg.com/ayurveda/pomegranate-82>

**11. NUTRITIONAL AND HERBAL MEDICINE FOR MEN'S HEALTH**

<https://www.fxmedicine.com.au/blog-post/nutritional-and-herbal-medicine-mens-health>

**12. The Benefits of Pomegranates**

<https://www.newtowninternalmedicine.com/single-post/2017/12/09/The-Benefits-Of-Pomegranates>

**13. Do Pomegranates Have a Role in Type 2 Diabetes?**

<https://www.emaxhealth.com/1275/do-pomegranates-have-role-type-2-diabetes>

**14. POMEGRANATE AND TYPE 2 DIABETES.**

<https://vitalgranaomega5ireland.wordpress.com/2016/02/14/pomegranate-and-type-2-diabetes/>

**15. HERBS**

<https://cybermedlife.eu/index.php/scientific-studies-biomedical-literature/pharmacological-actions/herbs?start=40>

**16. Health Benefits of Pomegranates for Skin, Hair & Health.**

<https://www.boldsky.com/health/nutrition/2016/pomegranate-nutrition-benefits-98156.html>

**17. DELIMA.**

<https://ind.medicineh.com/40-pomegranate-76509>

**18. #luteinizinghormone**

<https://picsoci.com/tags/luteinizinghormone>

**19. <https://hyatok.com/>**

**20. Supplements for Men to Improve Stamina, Libido and Vitality**

<https://www.ausnaturalcare.com.au/health/life-style/supplements-for-men-to-improve-stamina-libido-and-vitality/>

**21. Sperm Gifs**

<https://ballmemes.com/t/sperm-gifs>

**22. Golden Sperm**

<https://awwmemes.com/t/golden-sperm>

**23. How to Boost Sperm Production**

<https://www.superpharmacy.com.au/blog/how-to-boost-sperm-production>

**24. How to Boost Low Sperm Count Naturally: Foods That Can Help!**

<https://www.1mg.com/articles/how-to-boost-low-sperm-count-naturally-foods-that-can-help/>

25. <https://www.foodnavigator-asia.com/Article/2014/08/25/Antioxidant-rich-pomegranate-juice-may-aid-blood-sugar-management-for-diabetics-Human-data>

**26. Culinary Nutrition Cuisine**

<https://www.culinarynutritioncuisine.com/spinach-quinoa-salad/>

**27. Benefits of Radish And Its Side Effects**

<https://www.lybrate.com/topic/benefits-of-radish-and-its-side-effects>

**28. 5 Tips to improve mal fertility.**

<https://fullwellfertility.com/blogs/blog/a-crash-course-on-male-fertility>

**29. 14 Foods That Increase Testosterone Naturally**

<https://www.esourceresearch.org/foods-that-increase-testosterone/>

**30. Nutrition Facts and Health Benefits**

<https://www.verywellfit.com/tomatoes-nutrition-facts-calories-and-health-benefits-4119981>

**31. 6 supplements that may increase testosterone**

<https://www.everlywell.com/blog/testosterone/supplements-to-increase-testosterone/>

32. <https://zumodegranada.com/en/pomegranate-juice/beneficial-effects-pomegranate-juice-in-sars-cov-2-infection/>

**33. 13 Veggies You Only Think You Don't Like**

<https://www.health.com/food/13-veggies-you-only-think-you-dont-like>

**34. Ginger: Benefits, Properties and Contraindications**

<https://nutricionfarmacia.com/blog/en/health/phytotherapy/ginger/>

**35. 5 Life Changing Ginger Benefits That Can Improve Your Wellness.**

<https://swolverine.com/blogs/blog/ginger-benefits>

**1. Ginger: Health Benefits, Nutrition, and How to Take It**

<https://www.emedihealth.com/nutrition/ginger-benefits-risk>

**2. Mecobalamin injections 500 mcg (vitamin B12)**

<https://bio-japan.net/Mecobalamin-injections>

**3. The benefits and Side Effects of Carnitine and CoQ10 Supplementation for Male Infertility**

<https://elanhealthcare.ca/blogs/health-blog/the-benefits-and-side-effects-of-carnitine-and-coq10-supplementation-for-male-infertility>

**4. Vitamin B12**

<https://www.svezaimunitet.com/vitamin-b12/>

5. **Boost testosterone-Walmart**

<https://honehealth.com/edge/health/supplements-to-increase-testosterone/>

6. **6 Science-Backed Health Benefits of Radishes**

<https://www.realsimple.com/health/nutrition-diet/healthy-eating/radish-nutrition>

7. **Ginger Tea Benefits for Men**

<https://www.bensnaturalhealth.com/blog/general-health/ginger-tea-benefits-for-men/>

8. **7 Benefits of B12 Injections for Health, Energy and Beauty**

<https://invitacryonyc.com/benefits-b12-injections-health-energy-beauty/>

9. **Why Do Men Need A Prenatal?**

<https://elanhealthcare.ca/blogs/health-blog/why-do-men-need-a-prenatal>

10. **NutritionFacts.org (video)**

<https://nutritionfacts.org/video/are-onions-beneficial-for-testosterone-osteoporosis-allergies-and-cancer/>

11. **10 Stunning Onion Benefits for Health, Skin, Women, and Men**

<https://www.mentalfoodchain.com/onion-benefits/>

12. **Top 10 Onion Benefits For Men and Everyone Else**

<https://www.mentalfoodchain.com/onion-benefits/>

13. **Top 10 Testosterone Killing Foods: Role of Diet and Lifestyle in T Levels**

<https://www.farrinstitute.org/testosterone-killing-foods>

14. **فوائد طلع النخل والعسل للرجال**

<https://mawdoo3.io/article/56434> **فوائد طلع النخل والعسل للرجال**

15. **Full well: 5 Tips to Improve Male Fertility**

<https://fullwellfertility.com/blogs/blog/a-crash-course-on-male-fertility>

16. **Amazing Health Benefits**

<https://victorygardengal.com/remarkable-radishes-in-the-victory-garden/>

17. **Testosterone Boosting Foods: 10 Foods That Increase Testosterone**

<https://www.dmoose.com/blogs/nutrition/10-foods-for-testosterone-boosting>

18. **Can Ginger Increase Testosterone Levels?**

<https://www.eurasc.org/supplements/can-ginger-increase-testosterone-levels/>

19. **How to Increase Semen Volume**

<https://ahcaf.com/improve-semen/>

20. **What Is Pomegranate Juice?**

<https://www.verywellhealth.com/pomegranate-juice-may-interact-with-certain-medications-89171>

**21. Managing Hypercholesterolaemia**

<https://www.clinicaleducation.org/resources/reviews/managing-hypercholesterolaemia/>

**22. MIDSS.org: TestoPlus Test 2023**

<https://www.midss.org/de/potenzmittel/testoplus>

**23. Best Foods to Boost Testosterone**

<https://www.nutrex.com/blog/best-foods-to-boost-testosterone/>

**24. 15 Testosterone Boosting Foods For Optimum Testosterone Levels**

<https://www.nutrex.com/blog/best-foods-to-boost-testosterone/>

**25. From Losing Weight To Preventing Cancer, Here Are The Health Benefits Of Radish**

<https://www.boldsky.com/health/nutrition/2019/radish-types-nutrition-benefits-recipes-128247.html>

**26. Is Pomegranate Good For Diabetes?**

<https://clearcals.com/blogs/is-pomegranate-good-for-diabetes>

**27. 15 health benefits of pomegranate juice**

<https://clearcals.com/blogs/is-pomegranate-good-for-diabetes>

**28. 15 health benefits of pomegranate juice**

[https://www.ahpa.org/herbs\\_in\\_history\\_pomegranate](https://www.ahpa.org/herbs_in_history_pomegranate)

**29. Male fertility supplements: best vitamins and minerals for men**

<https://www.ricktroy.com/male-fertility-supplements-best-vitamins-and-minerals-for-men/>

**30. The Male Fertility Diet**

<https://natural-fertility-info.com/male-fertility-diet.html>

**31. 3 Surprising Pomegranate Benefits | Results in 14 Days?**

<https://www.youtube.com/watch?v=g836b185neQ>

**32. HOW GINGER CAN INCREASE TESTOSTERONE**

[https://www.youtube.com/watch?v=j6sXj\\_XoPf4](https://www.youtube.com/watch?v=j6sXj_XoPf4)

**33. NutritionFacts.org: Onions and Testosterone | Do Onions Really Boost Testosterone? | Onion Benefits**

<https://www.youtube.com/watch?v=xgkc8z7H8W0>

**34. How onions increase testosterone production**

<https://www.youtube.com/shorts/ITqE9JhzzUg>

**35. Can we eat radish in diabetes.**

<https://www.youtube.com/watch?v=F11VePaOAHw>

## 9. Honors and Awards (الجوائز والاعتماد)

1. **Deanship of Research Award-JUST-Top 2% influential researchers in the world-2022.**
2. **Deanship of Research Award-JUST-Top 2% influential researchers in the world-2020.**
3. **Top 2% influential researchers in the world according to the report published by Stanford University 2020-2022.**  
<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw>  
[https://data.mendeley.com/datasets/btchxktzyw/2?fbclid=IwAR3a44\\_PJxEcHpIwLvt\\_TLRQh5xBywsogKd-CVbnfgWxMomWmRhmXCA\\_QqNE](https://data.mendeley.com/datasets/btchxktzyw/2?fbclid=IwAR3a44_PJxEcHpIwLvt_TLRQh5xBywsogKd-CVbnfgWxMomWmRhmXCA_QqNE)  
<https://www.just.edu.jo/Deanships/DeanshipofResearch/Documents/top2percent.pdf>
4. **Full Professor with seniority.**  
[https://drive.google.com/file/d/197cQHIGG9VJy\\_5sJG\\_9u9WaSgHyAuzOR/view?usp=sharing](https://drive.google.com/file/d/197cQHIGG9VJy_5sJG_9u9WaSgHyAuzOR/view?usp=sharing)
5. **Jordan University of science and Technology Award-Top 2% influential researchers in the world according to the reports published by Stanford University (2020 -2022).**  
<https://drive.google.com/file/d/1LuS6liRx7KTCVQY-iUrUsIdubzL-vSZo/view?usp=sharing>
6. **Distinguished teacher award (2019)-** Faculty of Applied Medical Sciences/Jordan University of Science and Technology.  
<https://drive.google.com/file/d/1LuS6liRx7KTCVQY-iUrUsIdubzL-vSZo/view?usp=sharing>
7. **Graduate studies award:** supervisor of the best master thesis presented at Jordan University of Science and Technology in 2019; April-2019.  
<https://drive.google.com/file/d/1LuS6liRx7KTCVQY-iUrUsIdubzL-vSZo/view?usp=sharing>
8. **Faculty of Applied Medical Sciences award:** supervisor of the best master thesis presented in 2019. <https://drive.google.com/file/d/1LuS6liRx7KTCVQY-iUrUsIdubzL-vSZo/view?usp=sharing>
9. **Listed in the Royan 16th international research award-2015.**  
<https://www.royanaward.com/16thAwardBook.pdf>
10. **MENAA award.** Dubai Burj Al-Arab-15-December 2016, on behalf of Jordan University of Science and Technology  
<https://www.just.edu.jo/ar/NewsCenter/Lists/JustNews/DisplayItem.aspx?ID=987>

11. **Students Union award** of JUST University for achieving high cumulative in BSc, 1996.
12. **Second best oral presentation award** (among 45 presentations) –GSIR conference in Cleveland State University- 2010.
13. **Organized lecturer award**-Clinical Bio-analytical Chemistry Program- Cleveland State University, 2011.
14. **First paper and presentation award**- May conference at John Carroll University (among 60 presentations), 2011.
15. **Cellular & Molecular Medicine Specialization program**- August 2011- Cleveland State University.
16. **Cleveland Clinic Foundation appreciation award**-2010.
17. **Cleveland Clinic Foundation appreciation award**--2011.
18. **Cleveland state student life award**; February-2011
19. **Faculty of Science honor award**: top 3 BSc. students who achieved the highest cumulative in the Department of Applied Chemistry/Analytical Chemistry-1997.

## 10. Professional affiliations

- Member in the American Association for Clinical Chemistry (AACC)
- Member in the American Chemical Society (ACS)
- Member at King Hussein Foundation for Orphans (KHFO)
- Jordanian Society for Fertility and Genetics (JSFG)
- Vice president of GSIRC (Graduate Students Interdisciplinary Research Club) – Cleveland (209-2011).
- Member in the Global Andrology Forum (GAF)

## 11. Academic contributions (اسهامات اكاڤميه)

1. Editor: “Andrologia” Journal (Q2, SCIE).
2. Submitted proposal to serve as academic editor in “nutrients” Journal.

**2. A reviewer in the following Journals**

- Clinica Chemica Acta
  - Nutrition research
  - Complementary Therapies in Clinical Practice
  - Advances in nutrition (for published *PHD theses*).
  - Fertility and sterility
  - Journal of Integrative Medicine
  - Planta Medica
  - Andrology
  - Andrologia
  - Cryobiology
  - PLOS one Journal
  - Reproductive biomedicine online Journal
  - BMC alternative and complementary medicine
  - Cytotechnology
  - Reproduction
  - Journal of Translational Medicine
  - International Medical Case Reports Journal
  - Systems biology in reproductive medicine
  - Oxidative Medicine and Cellular Longevity
  - Current Molecular Medicine
  - Immunobiology
  - Jordan Medical Journal
  - Jordan Journal of biological sciences
  - Nature and Science of Sleep
3. Grants assessment in the field of clinical chemistry and Molecular Medicine from: Yarmouk University-Jordan and Sultan Qaboos University-Oman.
4. A member in the national committee of Accreditation and Quality Assurance Commission for Higher Education Institutions to evaluate the accreditation of bachelor. program in Medical Laboratory Sciences at Jadara University.
5. A member in the national committee of Accreditation and Quality Assurance Commission for Higher Education Institutions to evaluate the accreditation of master. program in Medical Laboratory Sciences at Amman National University.
6. Member in Global varicocele research Project. Cleveland Clinic-USA (ongoing).



7. A member in the International Scientific Advisory Board of “International Conference on Applied Chemistry and Biotechnology”.
8. A member in the promotion committees for full professors at FAMS-JUST.
9. An international reviewer for several faculty members promotions (for associate and full professors).
10. International examiner for Doctoral students in the field of reproductive endocrinology.
11. International external examiner in the field of nutrition and disease, particularly effects of foods, nutrients, and natural products on testosterone and men’s health.
12. Establisher of the elective courses in Nutritional Clinical Biochemistry at JUST.
13. Developing the Medical Laboratory Sciences Curriculum-2013 at Jordan University of Science and Technology.
14. Member in the Global Research Project at Cleveland Clinic as an International researcher and consultant to establish global surveys, current guidelines, and expert recommendations to enhance men’s health, manage male infertility, and success rates of assisted reproductive technologies.
15. International Peer Reviewer: “The Second International Conference of Health Sciences”. 18-19, 11, 2023.

## **12. Academic and administrative achievements**

### **(انجازات ادارية واكاديمية)**

1. Director of developing the BSc Curriculum-2013 for Medical Laboratory Sciences Program to achieve the AMT recognition. The AMT recognition of the MLS curriculum was achieved in 2014/2015.
2. The president of the committee of editing the Manual of Quality Assurance Standards for Faculty of Allied Medical Sciences, which was directed by the Higher Education Accreditation Commission. 2015/2016.
3. The director for reviewing and assessing the established Medical Laboratory Sciences Program syllabi at Aden University-2013, Yemen.
4. Establisher of the Micro-Technique Teaching Laboratory in the department of Medical Laboratory Sciences at Jordan University of Science and Technology. 2015.

5. The director of establishing the Clinical Chemistry Teaching Laboratories in the Department of Medical Laboratory Sciences at Jordan University of Science and Technology, 2011.
6. The director of establishing the biochemistry Teaching Laboratories in the Department of Medical Laboratory Sciences at Jordan University of Science and Technology, 2011.
7. Author and editor of the biochemistry/clinical chemistry teaching LAB manuals, 2003-present at Medical Laboratory Sciences Department-JUST.
8. Establisher of the biochemistry/Clinical chemistry teaching and research laboratory for master students at the Department of Medical Laboratory Sciences at Jordan University of Science and Technology, 2011.
9. Establisher of the Cryo-Lab in the Department of Medical Laboratory Sciences at Jordan University of Science and Technology, 2015.
10. An administrative organizer to achieve the American Medical Technologies (AMT) recognition for the Medical Laboratory Sciences Program at Jordan University of Science and Technology, 2014/2015.
11. An external reviewer for biochemistry/clinical chemistry grants at Yarmouk University.
12. An external examiner for many graduate students' defenses in the field of Medical Laboratory Sciences in a number of top Jordanian Universities.
13. A member in the scientific committee in the 1st international conference on modern technologies in the field of biotechnology and genetic engineering. Amman-Jordan, 5-8 October 2013.
14. A member in the strategic planning committee of Jordan University of Science and Technology-2016/2017.
15. Assigned faculty member to write the competition exam for appointment purposes in the field of Medical LAB sciences at Jordan University of Science and Technology.
16. Assigned faculty member and expert to prepare the theoretical and the practical clinical chemistry board exam in Jordan, 2016.
17. The head of the committee of the national examination of the Medical Laboratories specialty, which is organized by Civil Service Bureau for ministry of health, 2016.
18. A member in the committee of establishing and marketing the AMSIP program (internship program) in the faculty.

19. The head of the committee of performing the self-assessment report of MLS program for academic development center, 2016/2017.

20. The director of the internship program for all specialties at faculty of Applied Medical Sciences. 2016-present.

21. Organizer of the training agreement with SMART LABS -2017-Ongoing.

22. Director of NAACLS American accreditation for the department of Medical Laboratory Sciences at Jordan University of Science and Technology-Ongoing project.

23. **Director of the ASIC accreditation project 2016/2017 at Faculty of Applied Medical Sciences-JUST.** The ASIC accreditation was achieved in January 2018 for all academic programs of Faculty of Applied Medical Sciences (Medical Laboratory Sciences, Physical Therapy, Occupational Therapy, Audiology and Speech pathology, Paramedics, Radiology, Optometry, Dental Technology, and Allied Dental Sciences)

24. Establisher of the Assisted Reproductive Technologies Laboratory at Faculty of Applied Medical Sciences- Jordan University of Science and Technology.

25. Director of Assisted Reproductive Technologies diploma and Courses at Faculty of Applied Medical Sciences- Jordan University of Science and Technology

26. **Director of ASIC reaccreditation** for all departments of Faculty of Applied Medical Sciences. **The reaccreditation was achieved for 2 years starting from December 22, 2021.**

27. **Chair of AISC Re-accreditation Committee-2022** for all departments of Faculty of Applied Medical Sciences. **The reaccreditation was achieved for 2 years starting from December 2025.**

### 13. Master and Doctoral students supervised

(طلبة الماجستير والدكتوراة الذين اشرفت عليهم)

No.	Student Name/ID	Supervision status	Academic Status-Academic year
1.	Ammar Mohammad Suleiman Khawaldeh ID: 150793	Adviser	Ongoing-since Oct. 2023
2.	Ahlam F. Gharaibeh ID: 148023	Adviser	Graduated 2022/2023
3.	Aseel Al-Zinati ID: 142829	Adviser	Graduated 2022/2023
4.	Samah E. Banihani ID: 148024	Adviser	Graduated 2022/2023
5.	Rahaf Mohammad Al-Zboun ID: 148028	Adviser	Graduated 2022/2023

6.	Du'a Nabil Rabie ID: 150851	<b>Adviser</b>	Graduated 2022/2023
7.	Yasmen Maher Ghareebah ID: 150852	<b>Adviser</b>	Graduated 2022/2023
8.	Abrar Jihad Al-Natsha ID: 130391	<b>Adviser</b>	Graduated-2020/2021
9.	Hiba Jihad Khaled ID: 128436	<b>Adviser</b>	Graduated-2019/2020
10.	Reema Shatnawi ID: 128022	<b>Adviser</b>	Graduated-2019/2020
11.	Al-Ayna' Almardhyah Khawaldeh ID: 117945	<b>Adviser</b>	Graduated-2018/2019
12.	Falak Hisham Khasawneh ID: 110986	<b>Adviser</b>	Graduated-2017/2018
13.	Shifa' Aljabali ID: 117951	<b>Adviser</b>	Graduated-2016/2017
14.	Heba Alaa Khartabeel ID: 105181	<b>Adviser</b>	Graduated-2016/2017
15.	Rawan Ahmad Almadhon ID: 105151	<b>Adviser</b>	Graduated-2015/2016
16.	Khawla Fathi Abu-Alia ID: 105140	<b>Adviser</b>	Graduated-2015/2016
17.	Rama Fawzi Abu-Alhyja ID: 90501	<b>Adviser</b>	Graduated-2015/2016
18.	Razan Fares Alawneh ID: 97875	<b>Adviser</b>	Graduated-2015/2016
19.	Shuaibu Mhamad Shuaibu ID: 97894	<b>Adviser</b>	Graduated-2015/2016
20.	Sarah Emad Jaradat ID: 105148	<b>Adviser</b>	Graduated-2015/2016
21.	Seham Mohamad Makahleh ID: 83949	<b>Adviser</b>	Graduated-2013/2014
22.	Reham Adnan Fashtaki ID: 78376	<b>Adviser</b>	Graduated-2013-2014
23.	Noray Al-Shannag	<b>Co-Adviser</b>	Graduated-2021/2022
24.	Shayma' Yaser Anani ID: 130537	<b>Co-adviser</b>	Graduated-2021/2022
25.	Amena Mahmoud Homaidi ID: 130400-Comprehensive	<b>Co-adviser</b>	Graduated-2021/2022
26.	Muath Mohamad Al-Qaisi ID: 129070	<b>Co-adviser</b>	Graduated-2020/2021
27.	Suad Mustafa Al-Klob ID: 128475	<b>Co-adviser</b>	Graduated-2020/2021
28.	Ansam Muhammad Al-Qudah ID: 128843	<b>Co-adviser</b>	Graduated-2019/2020

29.	Tamara Mohammad Lababneh ID: 128828	Co-adviser	Graduated-2019/2020
30.	Sukayna Yousef Ababneh ID: 117946	Co-adviser	Graduated-2018/2019
31.	Yaser Shawki Al-Qaisi ID: 111010	Co-adviser	Graduated-2017/2018
32.	Shifa' Khalefah Abanneh ID: 105149	Co-adviser	Graduated-2016/2017
33.	Bara' Mosa Dhawa ID: 105147	Co-adviser	Graduated-2016/2017
34.	Shifa' Khalifah Ababneh ID: 105149	Co-adviser	Graduated-2016/2017
35.	Dalia Wael Abu Alhyja ID: 105724	Co-adviser	Graduated-2015/2016
36.	Abed Alraheem Bani-ahmad ID: 90773	Co-adviser	Graduated-2014/2015
37.	Sally Mohammad Aljararwah	Internal examiner	Graduated-2022/2023
38.	Razan Ali Saleh	Internal examiner	Graduated-2022/2023
39.	Stephen Smith	External examiner	Graduated -2022/2023
40.	Afanan Jmail Kenana	External examiner	Graduated -2022/2023
41.	Ezzat AL-Habbal	Internal Examiner	Graduated -2020/2021
42.	Belal Rabah	External examiner	Graduated-2015/2016
43.	Alaa Al-Barri	External examiner	Graduated-2015/2016
44.	Darefa Abdelmajeed	External Examiner	Graduated-2023/2024
45.	Kenana Alaitan	External Examiner	Graduated-2023/2024
46.	Mayson Monther Al-Khateeb	Internal examiner	Graduated-2015/2016
47.	Razan Ramiz Ali	Internal examiner	Graduated-2015/2016
48.	Mohammad Khajkan	Internal examiner	Graduated-2015/2016
49.	Raghdah Abdullah Ruhaimi.	Internal examiner	Graduated-2013/2014
50.	Abed Alfattah Salah Alfararjeh	Internal examiner	Graduated-2012/2013

#### 14. Community Service (خدمة المجتمع)

1. Member in the charity program at King Hussein Foundation for Orphans- 2023, 2022, 2020, 2019, 2018, 2017, 2016, 2015, 2014, 2013.
2. Organizer of the free medical day in Kofor Rakib school-Alkorah region/Irbid, May 10, 2018.
3. Participation in the blood donation campaign at King Abdullah Gardens-Irbid in corporation with the ministry of health-April 2019.
4. Organizer of the free medical day in Fatima Bint Alyaman school-Bushra region/Irbid in 16/4/2015.
5. Organizer of the free medical day in Almazar-Almazar Secondary School in 19/5/2015.
6. Organizer of the free medical day in Kofor Almaa village in 12/11/2015.
7. Organizer of the free medical day in Jumana Bint Abi-Talib School/ Al-Ramtha in 16/11/2015.
8. Organizer for a blood donation campaign at JUST in corporation with the ministry of health to support blood banks with the urgent blood units for Syrian refugees (20/4/2015).
9. Organizer for the free medical day at Yobla School in Bani Kanana region/North of Jordan. (2013).
10. Organizer a charity program and Iftar for all orphans in Irbid city through the King Hussein Society for Orphans- July 2016.
11. A member in the organizing committee in the free medical day at Al-Mazar community/North of Jordan (September-2017).
12. Organizer of the Free Medical Day at Kofor Rakib-North of Jordan (May 5, 2018).
13. Participation in the blood donation campaign at JUST-2019.

## **15. Committees and services (اللجان والخدمات)**

### **University committees and services**

- Member in the University Academic Development Council, 2021-2022.
- Member in the committee to amend the instructions for assigning part-time lecturers- 2022.

- A member in the university committee for reconsidering the assignment of part-time lecturers, laboratory supervisors, and technicians.
- Member in quality assurance and international accreditation committee (2015/2016).
- Member in graduate studies committee (2015/2016).
- Member in graduate studies committee (2014/2015).
- Member in graduate studies committee (2013/2014).
- Member in graduate studies committee (2012/2013).
- Strategic planning committee (2016/2017).

#### **Faculty committees and services**

- Member in the Faculty Research Committee at Faculty of Applied Medical Sciences-2023/2024
- Member in the graduate studies committee at Faculty of Applied Medical Sciences-2022/2023
- Member in the Faculty Research Committee at Faculty of Applied Medical Sciences-2022/2023
- Member in the Faculty ASIC Committee at FAMS-2022/2023
- Member in the curriculum committee at Faculty of Applied Medical Sciences-2022/2023
- Director of international accreditation (ASIC) for all programs at Faculty of Applied Medical Sciences (2020/2021).
- Member in the quality assurance committee (2020/2021).
- Chairman of scientific research committee (2020/2021).
- Director of international accreditation (ASIC) for all programs at Faculty of Applied Medical Sciences (2019/2020).
- Chairman of community services committee (2018/2019).
- Chairman of scientific research committee (2017/2018).
- Chairman of community services committee (2017/2018).
- Chairman of scientific research committee (2017/2018).
- Director of post-graduate training of faculty of applied medical sciences (2017/2018).
- Member in graduate studies committee (2017/2018).
- Member in faculty scientific committee (2017/2018).
- Manager of faculty vacation approvals (2017/2018).
- Chairman of the scientific research committee (2016/2017).
- Chairman of the community services committee (2016/2017).
- Chairman of the quality assurance committee (2016/2017).
- Coordinator of clinical training of faculty (2016/2017).
- Coordinator of the internship program (AMSIP) in the whole faculty for all specialties (2016/2017).

- Director of the ASIC accreditation project 2016/2017 at Faculty of Applied Medical Sciences-JUST.
- Administrative organizer of the ISO accreditation project 2016/2017.
- Member in the Faculty of Applied Medical Sciences council, Jordan University of Science and Technology (2011/2012- 2018).
- Chairman of scientific research committee (2015/2016).
- Chairman of community services committee (2015/2016).
- Chairman of quality assurance committee and international accreditation (2015/2016).
- Coordinator of clinical training of faculty (2015/2016).
- Member in graduate studies committee (2015/2016).
- Manager of vacation approvals in the faculty (2015/2016).
- Chairman of community services committee (2014/2015).
- Chairman of scientific research committee (2014/2015).
- Coordinator of clinical training of faculty of applied medical sciences (2014/2015).
- Member in graduate studies committee (2014/2015).
- Member in scientific committee (2014/2015).
- Manager of vacation approvals (2014/2015).
- Member in the graduate studies committee (2013/2014).
- Member in the community services committee (2013/2014).
- Member in tenders committee (2013/2014).
- Member in curriculum committee (2013/2014).
- Member in courses transfer committee (2013/2014).
- Member in graduate studies committee (2012/2013).
- Member in courses transfer committee (2012/2013).
- Member in student affairs committee (2011/2012).

#### **Department (Medical Laboratory Sciences) committees**

- Director- Course Quality Control Committee 2023/2024.
- Member in the Research Department Committee-2023/2024.
- Member in the curriculum development committee at Faculty of Applied Medical Sciences-2023/2024
- A member in the graduate studies committee (2023/2024)
- Department Promotion Committees-2023/2024.
- Department Promotion Committees for Professorship-2022/2023.
- Member in the Research Department Committee-2022/2023.
- Member in the curriculum development committee at Faculty of Applied Medical Sciences-2022/2023
- Chairman of the Committee on International Accreditation and Quality Control (2021/2022).
- Member in the Curriculum Development Committee (2022/2023)
- A member in the graduate studies committee (2021/2022)



- A member in the scientific research committee (2021/2022)
- A member in the graduate studies committee (2020/2021)
- A member in the scientific research committee (2020/2021)
- A member in the community services program committee (2020/2021)
- A member in the department promotion committees (2020/2021)
  
- Chair of the administrative and scientific committee of International Conference in Applied Medical Sciences at Jordan University of Science and Technology-2020.
- A member in the graduate studies and scientific research committee (2019/2020)
  
- A member in the graduate studies committee (2018/2019)
- A member in the graduate studies committee (2017/2018)
- A member in the community services program committee (2017/2018).
- A member in the curriculum committee (2017/2018).
- A member in the department promotion committee (2017/2018)
  
- A member in the graduate studies committee (2016/2017)
- A member in the community services program committee (2016/2017).
- A member in the curriculum committee (2016/2017).
- A member in the library committee (2016/2017).
  
- Acting chairperson of department of medical laboratory sciences (2013/2014, 2014/2015).
- Chairman of community services committee (2012/2013, 2013/2014).
- Chairman of scientific research committee (2012/2013, 2013/2014).
- Coordinator of clinical training of faculty of applied medical sciences (2012/2013, 2-13/2014).
  
- Member in courses transfer committee (2012/2013, 2013/2014).
- Member in scientific activities and community service committee (2011/2012).
- Member in graduate studies and scientific research committee (2011/2012).

## **16. Referees**

### **Reference 1**

Prof. Ismail I. A. Matalka, FRCPath  
Current President, RAK Medical and Health Sciences University.  
Ras Al Khaimah, UAE.  
Professor of Pathology & Consultant Pathologist.  
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Jordan University of Science and Technology  
Irbid 22110, Jordan.

### **Reference 2**

Dean College of Pharmacy,  
Department of Pharmacy Practice and Pharmacotherapeutics,

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**Reference 3**

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Past president of Hashemite University-Jordan.

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**Reference 5**

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Faculty Member: Faculty Opinions

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*Professor Saleem Banihani*

