

Prof. Khalid I. El-Salem MD|FAAN|MHPE



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» » » Summary Statement

In the academic year of 1989-1990, Prof. Khalid El-Salem finished his high school ranking first nationwide in the kingdom of Jordan in the General High School Examination (Tawjihi) with an average score of 98.3%. He joined the medical school at Jordan University of Science and Technology (JUST) with a full scholarship. He was on the university honor list and College of Medicine honor list for distinguished academic performance in 1991-1992. After graduating from JUST in 1996, Prof. El-Salem pursued his higher education in the United States at the University of Arkansas for Medical Sciences and Duke University Medical Center for 5 years, during which he was trained in Neurology and Clinical Neurophysiology and received honors for distinguished academic performance ranking on the 99th centile in the national American Residency In Training Exam. He became American Board Certified in 4 subspecialties: Neurology, Clinical Neurophysiology, Electrodiagnostic Medicine, and Neuromuscular Medicine. He also received a master's degree in health professions education. In 2002, he came back home to join the medical school of JUST as an assistant professor, to be promoted over the following years to associate and then full professor in 2012.

During that time, Prof. El-Salem was appointed to many administrative positions, from chairman of specialty to assistant dean of medicine, vice dean of scientific research, vice dean of graduate studies, dean of graduate studies, vice president of JUST, and finally, the President of JUST and the Chairman of the Board of Directors of King Abdulla University Hospital. Part of the many achievements of Prof. El-Salem, he established the first neurology residency program in Jordan along with his peers, which is still the only program in the country to this moment and the first higher specialty program of neurology at JUST. He also established the first sophisticated neurophysiology laboratory in the country. Prof. El-Salem was then recognized by his peers by being elected as chairman of the scientific committee of the Jordanian Neurological Society for two years and then became the youngest neurologist to be elected as the president of the Jordanian Neurological Society (the leading neurology position in Jordan), serving as such for two years. Prof. El-Salem was the first neurologist in the country, and amongst a few in the region, to be granted the prestigious fellow status of the American Academy of Neurology.

Prof. El-Salem was appointed as a member of the board of trustees of two government universities: Muta University for two years, then Tafila Technical University for four years. He served in many high-ranked committees in the Ministry of Higher Education and Scientific Research and chaired the medical and pharmaceutical sector committee for the Scientific Research Fund. He also chaired the scientific committee of the Jordanian Board of Neurology and served as a member of the higher committee for the board. He was either a team leader or a team member of numerous well-funded research projects from both national and international funding agencies. He served on the advisory boards of multiple pharmaceutical companies in the area of his specialty.

Prof. El-Salem presented his scientific research at the highest impact conferences in the field, in the United States and Western Europe, and won the prize of best abstract presented at the 11th Congress of the European Federation of Neurological Societies (EFNS) on August 27th, 2007, Brussels, Belgium. He managed to publish numerous articles in the leading journals of neurology and medical education and continues to be active in research with multiple ongoing institutional, national, and international projects.

» » » Qualifications and Certification

- **American Board of Clinical Neurophysiology**
Duke University Medical Center, USA. 2003
- **American Board of Electrodiagnostic Medicine**
Duke University Medical Center, USA. 2005
- **American Board of Neuromuscular Medicine**
Duke University Medical Center, USA. 2009.
- **Jordanian Board of Neurology.** 2002.
- **Master of Health Professions Education**
Maastricht/ S.C. Universities. 2008
- **Medical Degree**
Jordan University of Science & Technology. 1996.
- **ECFMG Certification**
1996.
- **United States Medical Licensing Examination (USMLE) Parts I, II, III.** (1995, 1996, and 2000).

» » » Clinical Training

- **Clinical Neurophysiology and Neuromuscular Diseases Fellowship,**
Duke University Medical Center, North Carolina, USA. 2001 - 2002.
- **Clinical Neurology Residency,**
University of Arkansas for Medical Sciences, USA. 1998 - 2001.
- **Medicine Internship,**
University of Arkansas for Medical Sciences, USA. 1997 - 1998.

» » » Academic Posts

- **Professor of Neurology,**
Jordan University of Science and Technology. 2012 - present.
- **Associate Professor of Neurology,**
Jordan University of Science and Technology. 2007 - 2012.
- **Assistant Professor of Neurology,**
Jordan University of Science and Technology. 2002 - 2007.

» » » Professional Memberships

- **American Academy of Neurology.**
1998 - present. Fellow Status since 2013.
- **American Association of Neuromuscular and Electrodiagnostic Medicine.**
2005 - present
- **American Neurological Association, Fellow Status.**
2018 - present.
- **European Academy of Neurology, Member.**
2018 - present.
- **Jordanian Physicians Association.**
1997 - present.
- **Jordanian Neurological Society.**
2002 - present. (President) 2011-2013

» » » Administrative Posts & Executive Experience

- **President of Jordan University of Science and Technology (JUST).** 2021 - present.
- **Chairman of the Board of Directors** King Abdullah University Hospital. 2021 - present.
- **Vice President of JUST.** Jordan University of Science and Technology. 2016- 2021
- **Dean, Faculty of Graduate Studies** Jordan University of Science and Technology. 2009 - 2011 & 2012 - 2014.
- **Vice Dean, Faculty of Graduate Studies** Jordan University of Science and Technology. 2011 - 2011.
- **Vice Dean of Scientific Research** Jordan University of Science and Technology. 2007 - 2008.
- **Assistant Dean, College of Medicine** Jordan University of Science and Technology. 2006 - 2007.
- **Head of Academic Division, Neurosciences** Jordan University of Science and Technology. 2012 - 2015.
- **Academic Division Supervisor, Neurosciences** Jordan University of Science and Technology. 2015 - 2016.
- **Head of Academic Division, Neurosciences** Jordan University of Science and Technology. 2005 - 2006.
- **Clinical Faculty Member, Consultant Neurologist** Jordan University of Science and Technology. 2002 - present.
- **President of the Jordanian Neurological Society.** 2011 - 2013
- **Board of Trustees (Member)** Muta University. 2012 - 2014.
- **Board of Trustees (Member)** Tafila Technical University 2014 - 2018
- **Chairman, Board of Directors, Pharmaceutical Research Center** Jordan University of Science and Technology. 2016 - present.
- **Chairman, Board of Directors of Regional Infectious Disease and Antimicrobial Resistance Center** Jordan University of Science and Technology. 2017 - present.
- **Chairman of Institutional Review Board** Jordan University of Science and Technology. 2012 - 2016.
- **Chairman, Human Subject Research Committee, King Abdullah University Hospital (KAUH)** 2015 (Led and managed KAUH JCI accreditation file related to human research)
- **Chairman of Jordanian Board of Neurology Specialty Committee** 2017 - 2018.
- **Chairman, Scientific Research Support Fund, Ministry of Higher Education, Medical/Pharmacy subcommittee.** 2016 - 2017.
- **Chairman, King Abdullah University Hospital Human Subject Research Committee** 2014 - 2016.
- **Chief Resident of Neurology** University of Arkansas for Medical Sciences, USA. 2000 - 2001.

» » » Licenses

- North Carolina Medical License, USA. (Active)
- Jordanian Medical License, Jordan. (Active).
- ECFMG Certificate (License to practice medicine in the United States of America).

» » » Administrative and & Executive Committees

INSTITUTIONAL - JORDAN UNIVERSITY OF SCIENCE AND TECHNOLOGY

- **University Council.** 2009 - 2011, 2012 - 2014, 2016 - present. (Chairman since 2021)
- **Deans Council** 2009 - 2011, 2012 - 2014, 2016-to date (Chairman since 2021)
- **Hiring and Promotion Committee** 2016 - present. (Chairman since 2021)
- **Chairman, Faculty of Graduate Studies Council** 2009 - 2011, 2012 - 2014. (member 2006 - 2008)
- **University Scientific Research Committee (Vice Chairman)** 2009 - 2011, 2012 - 2014.
- **Chairman, University Curriculum Committee** 2018 - present(member 2009 - 2011, 2012 - 2014)
- **Faculty of Medicine Council** 2006-2008, 2010-2011.
- **Faculty of Medicine- Higher Education Council** 2006 - 2008.
- **Department of Neurosciences Council** 2004 - present.
- **Department of Internal Medicine Council** 2002 - 2004.
- **Chairman, Strategic Planning Committee** 2016 - present.
- **Chairman, Student Aid Regulation Committee** 2016 - present.
- **Chairman, Risk Management and Strategic Plan Follow-up Committee** 2018 - 2019.
- **Chairman, Emergency and Bio-Risk Committee** 2018 - 2019.
- **Chairman, Academic Staff Disciplinary Committee** 2018 - present.
- **Chairman, Employee Disciplinary Committee** 2016 - 2017.
- **Chairman, Health and Safety University Committee** 2018 - 2019.
- **Chairman, University Achievements Preparatory Committee** 2018 - present.
- **Member, College of Medicine Strategic Planning, Accreditation, and QA Committee** 2015 - 2016.
- **Member, Board of Directors, Nanotechnology Center, JUST** 2014 - 2015.
- **University Council** 2009 - 2011, 2012 - 2014, 2016 - present(Chairman since 2021)
- **Deans Council** 2009 - 2011, 2012 - 2014, 2016 - present(Chairman since 2021)
- **Hiring and Promotion Committee** 2016 - present(Chairman since 2021)
- **Chairman, Faculty of Graduate Studies Council** 2009 - 2011, 2012 - 2014, (member 2006 - 2008)
- **University Scientific Research Committee (Vice Chairman)** 2009 - 2011, 2012 - 2014.
- **Chairman, University Curriculum Committee** 2018 - present(member 2009 - 2011, 2012 - 2014)
- **Faculty of Medicine Council** 2006 - 2008, 2010 - 2011.
- **Faculty of Medicine- Higher Education Council** 2006 - 2008.
- **Department of Neurosciences Council** 2004 - present.
- **Department of Internal Medicine Council** 2002 - 2004.
- **Chairman, Strategic Planning Committee** 2016 - present.
- **Chairman, Student Aid Regulation Committee** 2016 - present.
- **Chairman, Risk Management and Strategic Plan Follow-up Committee** 2018 - 2019.
- **Chairman, Emergency and Bio-Risk Committee** 2018 - 2019.
- **Chairman, Academic Staff Disciplinary Committee** 2018 - present.
- **Chairman, Employee Disciplinary Committee** 2016 - 2017.
- **Chairman, Health and Safety University Committee** 2018 - 2019.
- **Chairman, University Achievements Preparatory Committee** 2018 - present.
- **Member, College of Medicine Strategic Planning, Accreditation, and QA Committee** 2015 - 2016.
- **Member, Board of Directors, Nanotechnology Center, JUST** 2014 - 2015.
- **Other Committees**
 - Chairman, Social Responsibility Committee.
 - Chairman, Bridging Gaps with Industry Committee.
 - Chairman, Committee for Reforming Regulations for Academic Promotions.

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- Chairman, Committee for Reviewing the Faculty Evaluation Process.
- Chairman, Committee for Reviewing Employees Job Description.

- Chairman, Committee to Convert the Promotion Process to an Electronic Process.
- Chairman, Committee to Revisit the Laws and Orders of the University.

NATIONAL

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- **Academic Committee, Scientific Research Support Fund, Ministry of Higher Education** (2020 - present).
 - **Recognition Committee of Non-Jordanian Higher Education Institutions and Certificate Equivalency Ministry of Higher Education** (2012 - 2014).
 - **Scientific Committee, Scientific Research Support Fund, Ministry of Higher Education** (2016 - 2017).
 - **Chairman, Medical/Pharmacy subcommittee, Scientific Research Support Fund, Ministry of Higher Education.** (2016-2017). Member (2012 - 2017)
 - **Examination Committee for the Jordanian Board of Neurology Chairman** (2016-2018). Member (2007 - 2018).
 - **Faculty of Medicine Founding Council, Al Balqa Applied University** (2015 - 2016).
 - **Ministry of Health, National Committee for the Treatment of Multiple Sclerosis Jordan** (Multiple times since 2010, active since 2014).
 - **Royal National Committee for the Development of Human Resources** Member of the subcommittee for reviewing and outlining the roles and criteria for student selection for university admissions in Jordan.
 - **Chairman, committee appointed by the Accreditation and Quality Assurance Commission for Higher Education Institutions evaluating University of Jordan accreditation and increasing student capacity** (24/1/2017).
 - **Member of the delegation formulated by the Ministry of Higher Education and Scientific Research visiting Paris, France, with meetings and workshops with officials of higher education in France, as well as visiting multiple technical schools and universities in France** (2011).
 - **Member of the delegation formulated by the Ministry of Higher Education and Scientific Research visiting China with meetings and workshops with officials of higher education in China, as well as visiting multiple technical schools and universities in China** (2012).
 - **President, Fifth International Congress, Jordanian Neurological Society** (2012).
 - **Member of the selection committee for DAAD PhD scholarship.** (2009).
 - **Member, National Non-Formulary Drug Committee** (2015-2016).
 - **Consultant Neurologist, National Center for Diabetes, Endocrinology and Genetics (Part-Time)** (2009-2010).

ADVISORY BOARDS FOR PHARMACEUTICAL INDUSTRY

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- Novartis Pharmaceuticals
 - Bayer Pharmaceuticals
 - Merck Pharmaceuticals
 - Biologix Pharmaceuticals
 - Roche Pharmaceuticals
 - IPSEN Pharmaceuticals
 - Hikma Pharmaceuticals
 - Sanofi Pharmaceuticals

- **Annals of Neurology/Annals Clinical Translational Neurology oversight committee American Neurological Association (2020 - 2022)**
- **Career Development Task Force American Neurological Association (2020 - 2022)**
- **Membership Honorary Committee American Neurological Association (2020 - 2022)**
- **International Outreach Committee American Neurological Association (2020 - 2022)**
- **Graduate Medical Education Committee University of Arkansas for Medical Sciences, Arkansas, USA (2000 - 2001).**
- **Quality Review Committee University of Arkansas for Medical Sciences, Arkansas, USA (2000 - 2001).**
- **Residents' Council University of Arkansas for Medical Sciences, Arkansas, USA (2000 - 2001).**
- **Performance Improvement Committee University of Arkansas for Medical Sciences, Arkansas, USA (2000 - 2001).**
- **Core Curriculum Committee University of Arkansas for Medical Sciences, Arkansas, USA (2000 - 2001).**
- **Scientific Board member, Middle East and North Africa Commission on Research and Treatment in Multiple Sclerosis (MENACTRIMS) (2017 - present).**
- **Pan-Arab Neurological Societies Scientific Board (2018 - present).**
- **Neuromuscular Section of the American Academy of Neurology, USA (2011 - present).**
- **Consortium of Neurology Residency Program Directors American Academy of Neurology (2017 - present).**
- **Member, International American Academy of Neurology Online Community American Academy of Neurology (2018 - present).**
- **MaestroS Exchange Program [2020] Program to exchange best practices from different centers across the world to enhance the management of MS patients and foster scientific collaborations. An initial pilot project was conducted with the British Hospital Argentina.**

EDITORIAL / REFEREE EXPERIENCE

I have experience and expertise in evaluating research articles and manuscripts in the field of neurology, clinical neurophysiology, neuromuscular disorders, drug design, and related areas. My role as a reviewer involves critically assessing the quality, validity, and significance of submitted research, providing constructive feedback to authors, and helping to maintain the high standards and integrity of these publications.

Selected editorials:

- Clinical Neurophysiology (USA)
- Jordan Medical Journal (Jordan).
- Saudi Medical Journal (KSA).
- Neurosciences Journal (KSA).
- Clinical Neurology and Neurosurgery Journal (Netherlands).
- Journal of Clinical Neurophysiology, the official journal of the American Clinical Neurophysiology Society (USA).
- American Academy of Neurology, reviewer for the neuromuscular disorders section (USA).
- Letters in Drug Design & Discovery (USA).
- Multiple Sclerosis and Related Disorders.
- Neurology Research International.

COMMUNITY SERVICE

I am passionate about giving back to my community and have actively engaged in various community service initiatives throughout my life. These experiences have not only allowed me to make a positive impact on the lives of others but also honed my teamwork, leadership, and communication skills.

- I chaired the Higher Committee for Activating Social Responsibility at the university, which worked with members from within the university and intellectual people and social activists from outside the university and developed an implementation plan for this purpose. The details of the work of this committee and my contribution to it are detailed under the section on achievements as vice president.
- Participation and lecturing in local intellectual associations and activist conferences in the city of Ramtha, more than once, on top of organizing multiple social activities and awareness lectures and seminars from intellectual and political leaders in Jordan, exploring such topics as fighting terrorism and fostering intellectual moderation and accepting others. I volunteered for multiple non-governmental organizations and societies, such as the Jordanian Multiple Sclerosis Society, for which I offered free-of-charge monthly clinics for patients for many years. I also volunteered for the Jordanian Chapter Against Epilepsy.
- I volunteered/supervised multiple free medical days for the community in various areas in Jordan, including Mafraq, Irbid, Mazar, Ramtha, Kofr Khal, Johfiyeh, Enbeh, Aqraba, and Jerash. Volunteer and member of the Jordanian Multiple Sclerosis Society, providing free-of-charge care as a neurologist for multiple sclerosis patients once monthly from 2006 - 2012.
- Volunteer and member of the Jordanian Chapter Against Epilepsy.
- Volunteer for multiple charity medical days in underprivileged areas in Jordan, including villages in Kerak, Mafraq, Irbid, Mazar, Kofr-Khal, Johfiyeh, Ramtha, Enbeh, Aqraba, and Jerash.
- Took part in the Jordanian National Immunization Program, Bridging the Gaps, 4/2017.
- Project on increasing awareness of breast cancer in the local community, 11/2016 - 1/2017.
- Participated in workshop on how to deal with chronic medical illnesses, Jordanian Physicians Association, Irbid branch, 11/2016
- Educating residents on higher specialization in medicine, residency, and fellowship, 12/2016
- A couple of campaigns for providing Syrian refugees with medical care and dental care in 2016, in collaboration with the American Syrian Medical Association.
- Smoking Cessation campaign volunteer in Jordan University of Science and Technology and King Abdullah University Hospital.
- Campaign for awareness and early diagnosis of hypertension in multiple locations in Jordan, including shopping malls, city centers, and public parks, 7/2017 - 8/2017.
- Contribution to the Faculty of Medicine Fund for helping underprivileged students, which collected about 14,000 Jordanian Dinars.
- Supported and patronized a free veterinary medical day for pets at Jordan University of Science and Technology, 2017.
- Gave lectures and presentations in local societies about academic and social interface issues at least twice in Ramtha city.

» » » Awards & Honors

- Received Jordan University of Science and Technology Board of Trustees appreciation for outstanding leadership of the university as acting president, 12/2017 - 3/2018.
- Duke University School of Medicine, Department of Neurology Alumni Spotlight (as a success story for a Duke University graduate) featured on April 17th, 2019.
- Ranked among the top publishing and highly cited researchers in Jordan as per the University of Jordan, 2019, and the top cited in the field of adult neurology. [Link](#)
- Nominated among the top three candidates for the presidency of the University of Jordan in 9/2018.
- First in the Kingdom in the General Secondary School Examination (GSSE) among over 60,000 students, with an absolute average score of 98.3%.
- Full scholarship to study medicine by the Ministry of Higher Education, 1990.
- University Honor List for Distinguished Academic Performance, 1991.
- College of Medicine honor List for Distinguished Academic Performance, 1991.
- British Council prize for writing essays in English, 1988 (Ranked first in the kingdom).
- National “Writing Scientific Research Prize” organized by the Ministry of Education (Ranked first in the kingdom). The research entitled “Environmental pollution”.
- Award for best abstract presented at the 11th Congress of the European Federation of Neurological Societies (EFNS), August 27th, 2007, Brussels, Belgium. The abstract was entitled: Elevated glycosylated hemoglobin is associated with subclinical neuropathy in neurologically asymptomatic type two diabetic patients, a prospective study.
- Master’s in Health Professions Education, University of Maastricht and Suez Canal University, 2008.
- Neuromuscular, EMG, and Autonomic Disorders Scientific Topic Highlights session, 59th American Academy of Neurology Annual Meeting, Boston, USA. My abstract (P08.030) was selected as “Especially Noteworthy” for discussion at the Highlights Session. Abstract title: Ibuprofen reduces pain during needle electromyography.
- Selected by the Lindau Nobel Laureate Meeting Council as a young scientist guest to participate in the 57th Lindau Nobel Laureates Meeting for Medicine and Physiology, 1-6 July 2007, Lindau, Germany. About 500 young scientists were competitively selected worldwide to meet for one week with 20 Nobel laureates in medicine and physiology. Selection was based on academic and research performance.
- Appointed as Chairman of the local committee for the International Brain Research Organization (IBRO) course, Visiting Lecture Team Program (affiliated with UNESCO), JUST, 2006.
- Department of Neurology appreciation (University of Arkansas for Medical Sciences) for outstanding performance in the National Neurology Residency In -Training Examination (RITE), USA, scoring on the 99th centile all over the United States. Little Rock, Arkansas, USA. 1998 - 2000.
- Chancellor of the University of Arkansas for Medical Sciences letter of appreciation for outstanding clinical performance (University of Arkansas for Medical Sciences), Little Rock, Arkansas, USA.
- Elected unanimously by fellow residents as chief resident and resident representative at the University of Arkansas for Medical Sciences, 2000.
- Elected as president of the Jordanian Neurological Society for two years, 2011 - 2013.
- Elected as chairman of the scientific committee of the Jordanian Neurological Society, 2003. (served in this position for two years).

SELECTED ACHIEVEMENTS

In my role as President, I have held a central position in the organization’s leadership hierarchy. Over the years, my responsibilities have encompassed a wide range of crucial functions, including strategic guidance, decision-making, and representing the organization both internally and externally. I have actively shaped the organization’s policies and strategies, set ambitious goals, and crafted action plans to bring our vision to fruition. Financial oversight has been a vital aspect of my role, ensuring that the organization’s financial health remains robust and sustainable.

Networking and relationship building have been essential elements of my tenure, as I have established and nurtured partnerships with diverse stakeholders, fostering collaborations that bolster the organization's impact. Advocacy efforts have also been on my agenda as I've worked to promote our mission and secure vital resources to support our initiatives.

Moreover, I've been responsible for managing the organization's team, ensuring that our dedicated staff and volunteers are aligned with our mission and efficiently carrying out their roles. Crisis management has demanded my attention at times, requiring me to respond swiftly and effectively to unforeseen challenges.

Long-term planning has been a cornerstone of my role, with an eye toward securing the organization's future, sustainability, and growth. Communication has been key in keeping our members, stakeholders, and the public informed about our activities, achievements, and aspirations.

As vice president of Jordan University of Science and Technology from 2016 - 2021, I was responsible for the colleges of medicine, dentistry, pharmacy, nursing, applied medical sciences, and graduate studies. In addition, I was responsible for the health centers (medicine and dentistry), the Pharmaceutical Research Center, and the Regional Center for Infectious Diseases and Antimicrobial Resistance. I was also responsible for the Colleges of Veterinary Medicine and Agriculture for more than a year and the Princess Haya Biotechnology Center. In my capacity as vice president, I was the initiator, leader, facilitator and/or team member of the following projects and achievements, on top of overlooking and managing all processes related to these major projects, including international accreditation of all programs, transforming teaching methods into project-based and problem-based methods to encourage and foster innovation and entrepreneurship, revising and improving all graduate programs, revising all curricula at the bachelors and graduate levels, improving infrastructure and university environment, fostering bridges with industry and the private sector, commitment to the university social responsibility and designing a time-locked action plan related to that, improving university international ranking and visibility, continuous development of human resources including both academic and administrative staff, improving university international cooperation, and improving scientific research and its outcomes. Following are details related to that, categorized into groups:

ACCREDITATIONS

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- The College of Pharmacy received the ACPE (Accreditation Council for Pharmacy Education) accreditation in 2018, based in the United States of America.
 - The College of Applied Medical Sciences at JUST received the ASIC (Accreditation Services for International Schools Colleges and Universities) accreditation in 2017 as Premier University Faculty. This is a British-European-International Accreditation.
 - The College of Nursing received the ACEN (Accreditation Commission for Education in Nursing) accreditation for the College of Nursing (based in the United States of America).
 - We initiated the process of ACGME-I (Accreditation Commission for Graduate Medical Education-International) accreditation (based in the United States of America) for the graduate programs (residency) in the College of Medicine, the first project of its kind in Jordan, which is still in process.
 - We initiated the process of ACCM (Accreditation Commission on Colleges of Medicine) accreditation for the undergraduate program (Bachelor's Degree) of medicine, and I personally secured an external fund grant for 50,000 USD for this process, which was approved by the board of trustees.
 - I was the team leader for the human subject research file for JCI accreditation of KAUH.

GRADUATE STUDIES

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- Launching new master programs, including:
 - MSc. Program in Network Engineering and Security / Faculty of Computer and Information Technology.
 - MSc. Program in Rehabilitation Science / Physiotherapy / Faculty of Allied Medical Sciences.
 - MSc. Program in Clinical Rehabilitation Science / Faculty of Allied Medical Sciences. This program is supported by the European Erasmus + program in cooperation with some European and national universities.

- MSc. Program in Health Care and Quality Management / Department of Health Services Management / Faculty of Medicine.
- MSc. Program in Biomedical Engineering / Faculty of Engineering.
- MSc. Program in Data Science / College of Computer and Information Technology.
- Activating a Ph.D. program in Pharmacy, and the first batch of students joined in the first semester of 2017.
- Activating a Ph.D. program in Civil Engineering, and the first batch of students joined in the first semester of 2017.
- Launching a new residency program in microbiology/Faculty of Medicine.
- Increasing the published research papers resulting from the MSc theses. The percentage of publications for the academic year 2017/2018 alone increased by 240% compared to 2016/2017. This is a result of an amendment to the graduation requirements that requires a submission of a research paper for publication in an international journal indexed by Scopus or published by a conference proceedings indexed by Scopus. The number of researches published 2016/2017 is about 200 publications, which is equivalent to 30% of the total research papers published at the university during the year 2017/2018.
- Expanding and increasing the number of internal and external scholarships for graduate students:
 - Expanding internal grants (scholarships) for graduate students, especially in the academic year 2017/2018. The number of beneficiaries of these grants reached about 814 students with a support value of about 591,387.81 JD.
 - We received 150 scholarships for disadvantaged Jordanian students supported by the European Union within the EDU-JORDAN Program in 2017/2018.
 - We received about 30 scholarships for outstanding students from the Scientific Research Support Fund of the Ministry of Higher Education and Scientific Research.
 - Approximately 50 students received the German DAAD Scholarship.
- Ongoing projects:
 - A Ph.D. program in Materials Science at the Faculty of Science and Arts. The program has been approved by the Board of Trustees.
 - An MSc Program in Health Information Systems at the Faculty of Computer and Information Technology, supported by the Erasmus + Project and approved by the Deans' Council.
 - A Specialty program in conservative treatment in the Faculty of Dentistry. The program has been approved by the Deans' Council.

CURRICULUM

- Revising all curricula for the bachelor's degree in all colleges. The revision process started in 2020 and is almost completed. This included Medicine, Pharmacy, Dentistry, Nursing, Applied medical sciences, Engineering, Veterinary medicine, Science and Arts, Information Technology, and Agriculture.
- New regulations were implemented for the preparatory year in medicine and dentistry, in accordance with the new directives from the Ministry of Higher Education & Scientific Research, and the curricula for the bachelor's degree in dentistry and bachelor's degree in medicine were revised accordingly.
- Expanding the application of blended learning methods, initiating problem-based and project-based learning in several courses at different faculties, and expanding online teaching.
- The curricula for several of the master programs were reviewed and modified in accordance with new advances and requirements and to integrate advanced methods of teaching and learning in the process.
- Significant revisions were performed on the undergraduate curriculum for the faculties of pharmacy and nursing to fulfill requirements for international accreditation and to incorporate new and advanced teaching and learning methods.

INFRASTRUCTURE AND DEVELOPMENT

- Establishing a new large extension to the original simulation labs in the College of Nursing, equipped with up-to-date technologies. The extension consists of four new simulation rooms, one control room, and two debriefing rooms.

The simulation rooms had up-to-date dolls for training and educational purposes.

- Upgrading the Dental Teaching Clinics Building on the University Campus with the addition of 23 new state-of-the-art dental units to boost the teaching process, improve services, and introduce new technologies in dental radiography.
- Expanding the clinical skills labs at the College of Medicine and adding state-of-the-art simulation instruments provided by an Erasmus+ project funded by the European Union.
- Establishing multiple new research laboratories in different colleges, e.g., four new labs at the College of Pharmacy, and upgrading multiple other labs, e.g., in the pharmaceutical research center and Princess Haya Biotechnology Center.
- Upgrading classrooms and teaching laboratories in multiple colleges to introduce smart technologies, well-developed inter and intranet access, and installing new computers and data shows.
- We established a regional center for Infectious Diseases and Antibiotic Resistance in partnership with the University of Purdue, USA. A large space within the College of Veterinary Medicine is assigned to the center, and its labs are in the process of development.
- We embarked on building the veterinary hospital within the university campus, which will be the only one in Jordan and amongst a few in the region. An external grant funds the hospital as part of the Gulf grants to Jordan.
- Converting numerous processes at the university and college levels into totally electronic processes and applying modern, efficient, and effective administrative procedures to improve horizontal communication between different units.
- Improving the websites of all the colleges and centers that are under my supervision.

ACADEMIC RANKINGS

- The College of Medicine ranked in the category of 350-400 according to the Times Higher Education (THE) global ranking, in the 2001 - 300 according to the Shanghai Ranking, and in the category of 451-500 according to (QS ranking for subjects) in the years 2018-2019, for the first time in our history, becoming one of the top medical schools in the region and the leading school in Jordan. It also ranked 257th globally according to US News ranking, number one in the Arab world, and number 28 in Asia.
- We ranked in the top 176 - 200 universities globally according to Times Higher Education ranking in the topic of preclinical, clinical, and health-related specialties for the year 2017-2018, for the first time in our history.
- JUST became the first university in Jordan to be in the top 500 globally according to THE in 2017 and improved this year to become in the category of 351 - 400, becoming in the top 400 universities globally.

CHAIRMAN OF IMPORTANT UNIVERSITY COMMITTEES

- University Curriculum Committee.
- Strategic Planning Committee.
- Institutional Review Board.
- Higher Quality Assurance Committee for the university.
- Social Responsibility committee, which arranged a comprehensive plan for community social services on the teaching, cognitive, and environmental levels.
- University achievements committee and annual JUST report committee.
- Bridging with the Industry committee, which planned and supervised an action plan to activate and foster strong relations with the industry.
- Committee for reforming regulations for academic promotions, which were adopted by the deans' council and are currently active.
- Committee for reviewing the faculty evaluation process.
- Code of Ethics committee, the recommendations of which were adopted and produced a code of ethics document for academic staff, employees, and students.

- Committee of reforming and revising Graduate Studies programs.
- Committee for evaluating Joint and Sandwich graduate programs.
- Committee of transforming numerical scoring system to letter scoring system for graduate programs.
- “Adjunct professor” regulations committee.
- Regulations committee for laboratory and equipment use.
- Committee of rules and regulations for academic staff selection for mobilization and capacity-building programs of Erasmus+ projects.
- Employee job description committee, resulting in job description cards for all university jobs.
- Student Aid Regulation Committee.
- Committee to convert the promotion process into a totally electronic paperless process, which has been achieved and adopted by the deans’ council and is currently active.
- Committee to revisit the Laws and Orders of Jordan University of Science and Technology, which is still active.
- Risk management and strategic plan follow-up committee.
- Emergency and bio-risk committee.
- Academic staff disciplinary committee.
- Employee Disciplinary Committee
- General health and safety university committee.
- Higher university marketing committee.
- Committee for preparing the “Summer Research” regulations for academic staff.
- Committee for preparing university matrix for scholars and employment selection of academic staff.
- Committee to evaluate and modify health insurance regulations for academic staff, students, and employees.
- Committee to evaluate contemplated strategic projects with international universities and institutions.
- Committee for revising Academic Development and Quality Assurance Center regulations and governing rules.
- Committee for revising regulations of private clinical work for physicians and College of Medicine faculty.
- Student Registration Committee.
- Anti-Smoking Central University committee.

HUMAN RESOURCES

-
- We managed to send more than 50 scholars to health-related colleges for training in the best universities worldwide, but mostly in the United States.
 - We recruited a significant number of qualified teaching and research assistants in almost all faculties.
 - We recruited a significant number of highly qualified staff in all of the faculties I was responsible for.
 - We conducted numerous capacity-building workshops for the academic and administrative staff, with a concentration on new methods of teaching in blended learning and the design and implementation of online courses.
 - About 200 academic staff from health-related colleges participated in international and national conferences.

INTERNATIONAL COOPERATION

-
- Numerous memorandums of understanding were signed with reputable universities and international institutions. Those MOUs were activated and used for faculty and student mobilization to build capacity, knowledge, and experience transfer.
 - Agreements with at least two universities in the United States of America were signed with the intention to establish joint graduate programs in nursing and pharmacy (Queens University/UK, University of Ulster/UK).

- An ambitious project was started with Purdue University in the USA to cooperate in the field of regional infectious disease control and antimicrobial resistance. We managed to establish a specialized center within the JUST campus for that purpose, which was approved by the Ministry of Higher Education and the relevant councils.
- Cooperation with the International Brain Research Organization was reinforced. A major conference sponsored by the organization was held at JUST in 2018 with the major theme of ethics in research.
- Numerous international conferences were hosted at JUST in the colleges of Medicine, Nursing, Dentistry, and Applied Medical Sciences, attracting significant international speakers and scholars. It also reinforced JUST connections and visibility in the academic international community.
- Cooperation was expanded with international agencies like DAAD, GIZ, OIE, and WHO at the graduate studies, scientific research, and consulting services levels.

BRIDGING WITH INDUSTRY

- A major project was started in cooperation with Hikma Pharmaceuticals to work on producing super generic drugs for the treatment of ulcer. Experts from Hikma Pharmaceuticals also teach a qualitative course, "Phar558 Pharmaceutical Regulatory Affairs," as an elective course to college students (free of charge).
- An MOU was signed with Inafia Pharmaceutical/UK to develop a product that will potentially reach the global market.
- All colleges formulated councils with members from industry and the private sector to establish meaningful cooperation and have their advice and feedback as important stakeholders.

UNIVERSITY SOCIAL RESPONSIBILITY CONTRIBUTIONS

I chaired the Higher Committee for activating the social responsibility dimension of the university, which worked with members from within the university and social activists from outside the university, and developed an implementation plan for this purpose based on the following axes:

- The axis of educational impact, by lectures in schools and clubs aimed at anti-corruption, drug control, public health, support for women, and support for people with special needs. In addition, it will hold free courses for students and communicate with the directorates of education to support these activities.
- The axis of participating in community activities by launching studies aimed at identifying the needs of the local community and the priorities and areas that the university can serve, such as the sectors of industry and agriculture, in addition to intensifying community participation in its social activities, activating and following up the application of the Social Responsibility Course at JUST.
- The axis of the cognitive impact is intensifying the work of the consultative center through the implementation of courses and offering professional diplomas, consultations, and technical assistance programs.
- The axis of environmental impact, led by a campaign to green the area inside and outside the university, activating the role of the urban planning department in the community and the adoption and design of gardens outside the University, and coordinating with the surrounding municipalities to organize workshops related to environmental pollution.

Examples of activities carried out include, but are not limited to, the following:

- Numerous (more than 15) free medical days were arranged in almost all neighboring towns and villages. Those included general health issues, specialty clinics, and dental care. The colleges of medicine, pharmacy, applied medical sciences, dentistry, and health centers contributed to this.
- Multiple awareness days and reachouts were conducted in schools, malls, and primary healthcare centers.
- Multiple fundraising activities for underprivileged students.
- Multiple activities related to Syrian refugee support.
- Promoting general health activities and smoking sensation-related campaigns.
- Planting trees in multiple areas in neighboring towns.

» » » Graduate Students and Teaching Experience

GRADUATE STUDENT SUPERVISION

I founded the first Neurology Residency program in Jordan along with my peers, which is still the only neurology residency program in the country. It is also the first higher specialty program in the field at Jordan University of Science and Technology. Since then, I have supervised, trained, and graduated numerous specialists and consultants in neurology, including a higher Specialty in Neurology (Equivalent to a master's degree, 28 students) and a Fellowship in Neurology (equivalent to a Ph.D., 6 students) with a total of 34 graduate trainees.

- M. Saydam (2006). Higher specialty Neurology
- R. Saadeh (2007). Higher specialty Neurology
- A. Attas (2008). Higher specialty Neurology
- S. Bashayreh (2009). Higher specialty Neurology
- D. Shorofat (2010). Higher specialty Neurology
- H. Hattab (2010). Higher specialty Neurology
- M. Shawawreh (2011). Higher specialty Neurology
- L. Shakhathreh (2011). Higher specialty Neurology
- B. Baik (2011). Higher specialty Neurology
- N. Fadlallah (2011). Higher specialty Neurology
- M. Khraim (2013). Higher specialty Neurology
- Q. Saady (2013) Higher Specialty Neurology
- K. Tarazy (2014) Higher specialty Neurology
- E. Lahlouh (2014) Higher specialty Neurology
- S. Abumurad (2014) Higher specialty Neurology
- A. Balousheh (2014) Higher specialty Neurology
- S. Hubaishy (2015) Higher specialty Neurology
- S. Mhaidat (2015) Higher specialty Neurology
- I. Olaimat (2015) Higher specialty Neurology
- M. Gassaymeh (2015) Higher specialty Neurology
- D. Obeidat (2016) Higher specialty Neurology
- S. Agayleh (2016) Higher specialty Neurology
- B. Dabbour (2016) Higher specialty Neurology
- M. Ze'by (2016). Higher Specialty in Neurology
- M. Alhassan (2017). Higher specialty Neurology
- M. Khwaileh (2017). Higher specialty Neurology
- M. Anbar (2017). Higher specialty Neurology
- D. Titi (2017). Higher specialty Neurology
- S. Bashayreh (2016). Fellow, Epilepsy
- D. Shorofat (2017). Fellow, Movement Disorders
- M. Shawawreh (2018). Fellow, Multiple Sclerosis
- L. Shakhathreh (2018), Fellow, Epilepsy
- M. Saydam (2011), Fellow, Neuroradiology
- R. Saadeh (2012), Fellow, General Neurology

I founded an advanced Neurophysiology Laboratory with my peers at Jordan University of Science and Technology and King Abdullah University Hospital. The lab is capable of performing all advanced electrophysiological procedures, including but not limited to electromyography, electroencephalography, and evoked potentials. It is the only lab in the country capable of performing the highly sophisticated, technically demanding single fiber EMG, motor unit analysis, and motor unit density procedures. It is considered the most advanced neurophysiology laboratory in the country.

TEACHING ACTIVITIES

My expertise in Neurology has enabled me to provide students with a well-rounded education that goes beyond the classroom, preparing them for success in their academic and professional endeavors.

Throughout my teaching career, I have had the privilege of instructing the following courses:

- Neuromuscular Module for Neurology Residents.
- Neurophysiology Module for Neurology Residents.
- Director of Clinical Skills and Introductory Course for fourth-year medical students.
- Neurosciences course for fifth-year medical students.
- Neurosciences course for physical medicine and rehabilitation students.
- Neurosciences II course for third-year medical students.
- Neurology residency didactic course.
- Neurology for second year, higher specialty neurology students.
- Neurology for third year, higher specialty neurology students.
- Neurology for fourth year higher specialty neurology students.
- Neurology for fifth year higher specialty neurology students.

- Neurology course for neurology residents at the University of Arkansas for Medical Sciences.
- Clinical Neurophysiology course for neurology residents at the Duke University Medical Center.

» » » Scholarly Accomplishments

RESEARCH JOURNAL PUBLICATIONS

- [1] Wlla Abedalaziz, Alham Al-Sharman, Aseel Aburub, Mariem Syrine Latrous, Patrick Esser, Helen Dawes, **Khalid El-Salem**, Hanan Khalil. "The relationship between sleep quality and gait in people with multiple sclerosis: A pilot study". In: *Hong Kong Physiotherapy Journal* (2023), pp. 1–9.
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- [4] Mansour Haddad, Mohammad Alsalem, Sara A Aldossary, Heba Kalbouneh, Sahar M Jaffal, Qusai Alshawabkeh, Sa'ed Al Hayek, Omar Abdelhai, Noor A Barakat, **Khalid El-Salem**. "The role of adenosine receptor ligands on inflammatory pain: possible modulation of TRPV1 receptor function". In: *Inflammopharmacology* 31.1 (2023), pp. 337–347.
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- [10] Yaman Ahmed, Ayah Al-Bzour, Saja Alzghoul, Ghayda'a Al-Majali, Ruaa Ibrahim, Anas Al-Khalili, Ammar Hamza, Ramaz Almannai, Ahmed Yassin, Alexandra Leffler, Kefah al-hayk, **Khalid El-Salem**, Majdi Al Qawasmeh. "Functional Abnormalities in Pain Processing in Migraineurs: A Coordinate-Based Meta-Analysis of Neuroimaging Studies". In: *Annals of Neurology* 92 (Oct. 2022), S1–S243.
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- [29] Hanan Khalil, Aseel Aburub, Saddam F Kanaan, Alham AlSharman, Shada Khazaaleh, Majdi Al Qawasmeh, **Khalid El-Salem**. "Convergent and criterion-related validity of the short form of the International Physical Activity and the Incidental and Planned Physical Activity Questionnaires in people with multiple sclerosis". In: *NeuroRehabilitation* 49.4 (2021), pp. 597–606.
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- [120] **Khalid El-Salem**, Alham Alsharman, Hanan Khalil, Duha Al-Shorafat, Patrick Esser, Helen Dawes. *The Extent of the Relationship between Sleep Disturbances and walking ability in People with Multiple Sclerosis (P5. 2-096)*. 2019.

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- [2] N Alissa, H Khalil, A Al-Sharman, I E'leimat, M Al-Qawasmeh, K El-Salem. "The impact of fatigue and pain on functional mobility, fear of falling, and falls in individuals with Parkinson's Disease". In: *MOVEMENT DISORDERS*. Vol. 36. WILEY 111 RIVER ST, HOBOKEN 07030-5774, NJ USA. 2021, S407–S407.
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» » » Invited Talks

I have been honored to deliver invited talks and lectures at esteemed events and institutions, where I share my expertise and perspectives with diverse audiences.

1. Higher Education Facing the Challenge of Refugee Students. 2nd JOSY Conference on Higher Education and Forced Migration "From Challenges to Opportunities". Amman, Jordan.
2. NETFORMS: Reconnecting the dots in the management of multiple sclerosis. Invited speaker, International Webinar on the Management of MS. Amman, Jordan. May 15th, 2020.
3. Revisiting clinical and management concepts in multiple sclerosis. MS Master Webinar. Amman, Jordan. May 10th, 2020.
4. World Congress of Neurology Invited guest speaker, Lambert Eaton Myasthenic Syndrome. Dubai, October 2019.
5. A new era in the management of RMS and PPMS. Lebanese Neurological Society MS Meeting, Byblos, Lebanon. June 22nd, 2019.
6. Update on Myasthenia Gravis. Annual meeting of Neurology Department at Cairo University. Keynote speaker, Cairo, Egypt. 12/2018.
7. Insights into the current treatment of multiple sclerosis and continuous immunosuppression. Scientific Updates in Neurology, Beirut, Lebanon. April 5th, 2019.
8. Anti-MuSK Antibodies and Seronegative Myasthenia Gravis. Duke University Medical Center, Durham, North Carolina, USA. 5/2002.
9. Post-Polio Syndrome. Duke University Medical Center, Durham, North Carolina. USA. 5/2002.
10. Seronegative Myasthenia Gravis. University of Arkansas for Medical Sciences, Little Rock, Arkansas, USA. 4/2001.
11. Multiple Sclerosis in Pregnancy. 16th Pan Arab Union of Neurological Societies meeting, Amman, Jordan. 9/2018.

12. Treatment of Multiple Sclerosis. Jordanian Physicians Association Annual meeting, Irbid, Jordan. 4/2017.
13. Botulinum Toxin Injections for Focal Dystonia. IPSEN neurology meeting, Amman, Jordan. 8/2017.
14. Status Epilepticus, an Update. Royal College of Physicians of Edinburgh and the Jordanian Internal Medicine Society. The 10th International Jordanian Conference of Internal Medicine, Amman, Jordan. 6/2010.
15. World Federation of Chiropractic, 5th Eastern Mediterranean Meeting. Chairman of the local organizing committee, JUST, Jordan. 4/2010
16. Multiple Sclerosis in Jordan. American University of Beirut MS symposium, Beirut, Lebanon. 5/2012.
17. Update on Stroke. Eastern Saudi Province Neurological Meeting. 4/2009: Khobar, KSA. 18. Neurophysiological Changes in Medical Diseases (Grand Rounds). University of Arkansas for Medical Sciences, 5/2007, Little Rock, Arkansas.
18. New Interventions in Multiple Sclerosis. Syrian Neurological Association. 5/2008, Damascus, Syria.
19. Ain Shams University (Adel Sadeq Psychiatry Hospital, Cairo, Egypt), board review of neurophysiology for psychiatry residents. 3/2004, Cairo, Egypt.
20. Acute Inflammatory Demyelinating polyneuropathy. Joint meeting of the Jordanian and Lebanese Neurological Societies meeting. 5/2012, Amman, Jordan.
21. Anticholinergic Medications and Neurophysiology of Dementia. Jordanian Neurological Association. 2/2004, Amman, Jordan.
22. Multiple Sclerosis in the Region. Bayer Schering Stand-Alone meeting. 4/2007, Bangkok, Thailand.
23. Immune mediated neuropathies. 7th International Congress of the Jordanian Neurological Society. 9/2016, Amman, Jordan.
24. Electromyography Signal Analysis. Jordanian Neurological Society meeting. 9/2015, Dead Sea, Jordan.
25. Controversies in Neurology. President, the Fifth International Congress of the Jordanian Neurological Society. 11/2012: Amman, Jordan.
26. Clinical Approach to Peripheral Neuropathy. Jordanian Neurological Society 11/2011, Amman, Jordan.
27. Neuromuscular Diseases Update. 4th International Jordanian Neurology Congress. 10/2010, Amman, Jordan.
28. Electromyography Signals. Jordanian Neurological Society. 8/2008, Amman, Jordan.
29. Electromyography Signals workshop. Jordanian Neurological Society. 5/2012, Dead Sea, Jordan.
30. International Brain Research Organization Course- Visiting Lecture Team Program (affiliated with UNESCO). Clinical aspects of MuSK antibody myasthenic patients, 7/2006, Irbid, Jordan.
31. Neurophysiology of Myasthenia Gravis. Jordanian Neurological Association. 2/2005: Amman, Jordan.
32. Antiepileptic Medications-Molecular Mechanisms of Action. Epilepsy Symposium. 4/2004, Sana, Yemen.
33. Spectrum of Paraneoplastic Neurological Diseases. King Abdullah University Hospital (Grand Rounds). 3/2004: Irbid, Jordan.
34. Neurophysiological Characteristics of Paraneoplastic Peripheral Neurological Diseases. King Hussein Cancer Center. 3/2003: Amman, Jordan.

» » » Participating in Research and Development Projects

INTERNATIONAL RESEARCH AND DEVELOPMENT PROJECTS

- Erasmus+ project. Training for Medical Education Via Innovative E-Technology (MediTec). Role: Member of the technical team at JUST. 2017 - 2020.
- MaeStro Exchange Program, Excellence to Excellence. A combined project between Jordan University of Science and Technology/King Abdullah University Hospital and British Hospital, INECO, Argentina. My role was the project leader and organizer from JUST, as well as a member of the faculty. The project aims to exchange experience between international centers of excellence in optimizing multiple sclerosis patient care. The project started on 8/2020 and is still ongoing, sponsored by Roche Pharmaceuticals.
- Principal Investigator for Jordan: Angles International Initiative Project, in cooperation with the European Stroke Organization (ESO) and the World Stroke Organization (WSO) for optimizing stroke management globally. Role: PI representing Jordan. 2020 - present.
- Principal Investigator for Jordan: Multiple Sclerosis (MS Base) International Study Group. (2015-present). The project involves Jordan, Lebanon, Egypt, Iraq, Kuwait, Saudi Arabia, Emirates, Qatar, Bahrain, Oman, and Tunisia.
- International Youth Neuroscience Association (IYNA). NEURON initiative international Judge and mentor. IYNA is a global youth-led nonprofit dedicated to inspiring the next generation of neuroscientists. Our mission is to introduce students to the excitement of scientific inquiry and enable them to explore the wonders of the brain. (2020 - present).
- Arab Balance Society Project founding member, representing Jordan (2019-present). A project aiming at fostering knowledge and care for balance-related disorders in a multidisciplinary fashion, along with joining efforts of research in this area.
- Effectiveness and safety of generic delayed release dimethyl fumarate (Sclera or Marovarex, Hikma) in routine medical practice in the treatment of relapsing remitting multiple sclerosis in MENA region. Protocol number HIK-DMF-2020-01. Project involves Jordan, Lebanon, Egypt, Iraq, and Gulf states. Role: PI, Jordan. 2020.
- Multi-center international project supported by a Novartis Pharmaceuticals grant. A 4-month open label multicenter study to explore the safety and tolerability of fingolimod 0.5 mg orally (FTY720D2325) in patients with relapsing remitting multiple sclerosis, role PI. (2014).
- International Brain Research Organization (IBRO). Visiting Lecture Team Program affiliated with UNESCO. (2006).
- International Brain Research Organization (IBRO). International Conference and Advanced Neuroscience School in Neurodegenerative Disorders: Translation into Clinical Neurology (2017).
- Bayer Schering pharmaceuticals. Cogni-MS International study group. Effect of interferon treatment on the cognitive aspects of multiple sclerosis patients. (2005 - 2006).
- European Union commission fund (Research and Technological Development & Innovation initiatives and Strategies in Jordan scheme). Virtual Reality (VR) Based Motor Control Learning for People with Multiple Sclerosis. (2015 - 2016).
- Collaboration with the University of Purdue. Chairman of the Board of Directors for the Infectious Disease and Antimicrobial Resistance Project. (2016 - present).
- American Academy of Neurology, Program Director Consortium (2017 - present).
- Neuromuscular Section of American Academy of Neurology. (2011 - present).
- Collaborative project between the University of Arkansas for Medical Sciences, University of Texas, and Jordan University of Science and Technology on Electromyography Pain. (2006 - 2008).
- Collaborative project between Duke University Medical Center and Jordan University of Science and Technology on Myasthenia Gravis Anti-MuSK Antibodies. (2002 - 2003).

REGIONAL

- Palestinian Neuroscience Initiative. (Learning and memory in neurological and psychiatric disorders). (2015 - 2018).
- Middle East and North Africa region, Neuroimmunology Initiative Group (2018 - present)
- Middle East and North Africa Commission on the Treatment and Research in Multiple Sclerosis. (2016 - present).
- Pan Arab Neurological Society, Scientific Board, (2017 - 2018).

NATIONAL

- Co-Founder of the first Neurology residency program in Jordan and the first higher specialty neurology program, 2006. These are still the only programs in the country.
- Multiple Sclerosis Central Committee, appointed by the minister of health, developed national protocols for the treatment of multiple sclerosis. (2015 - present).
- Multiple Sclerosis Registry. Jordanian Physicians Association and Jordanian Neurological Society. (2016 - present).
- Multiple Sclerosis National Prevalence team. University of Jordan, Ministry of Health, Jordan University of Science and Technology, and Royal Medical Services. (2016 - 2018).
- Jordanian Chapter Against Epilepsy. (2009 - present).
- National prevalence study of Parkinson's disease in collaboration with the Royal Medical Services and the Ministry of Health. (2008).

» » » Research Funds / Fundraising and Related Issues

I was involved in numerous projects attracting external funds, either as a team leader or a team member or supervisor in my capacity as vice president, with the scopes of conducting scientific research, building capacity, improving infrastructure, or arranging international conferences. Following is a selected list, which involves about 13 million USD:

- Erasmus+ project. Training for Medical Education via Innovative E-Technology (MediTec). 585980-EPP-1-2017-1DE-EPPKA2-CBHE-JP. October 15, 2017 - October 14, 2020. Role: Member of the technical team at JUST. **(1,000,000 Euro, about 1,240,000 USD)**. Local project Coordinator in Jordan, Prof. Fahmi Abu Al-Rub.
- Faculty research grant, Jordan University of Science and Technology. Efficacy of physical therapy and occupational therapy for the treatment of essential tremor. Role: Principal Investigator. Grant # 575-2020. **(USD 14,000)**.
- Novartis pharmaceuticals grant. A 4-month open-label multicenter study to explore the safety and tolerability of fingolimod 0.5 mg orally (FTY720D2325) in patients with relapsing-remitting multiple sclerosis, role PI. (2014). **(USD 23,776)**.
- Faculty research grant, University of Jordan. Prevalence of multiple sclerosis in two major cities in Jordan: an update. (2017-2018). Role Co-PI/ (PI- Aldughmi M). **(USD 7,000)**.
- Faculty research grant, Jordan University of Science and Technology. The effect of aerobic training on sleep and cognitive function in people with multiple sclerosis. (2016 - 2018). Role: Co-PI/ (PI- Al-Sharman A). **(USD 21,200)**.
- Faculty research grant, Jordan University of Science and Technology. The relationship between antioxidant gene (NRF2), sleep disturbances, and physical activity in individuals with multiple sclerosis. (2016 - 2017). Co-PI (PI- Al sharman A). **(USD 8,500)**.
- Faculty research grant, Jordan University of Science and Technology (2016-2017). Understanding motor learning in patients with multiple sclerosis. Co-PI (PI- Al sharman A). **(USD 14,000)**.
- Faculty research grant, Jordan University of Science and Technology. Association between magnesium levels and mental and body wellbeing in neurodegenerative disease. (2017 - 2018). Role: Co-PI/ (PI- Khalil H). **(USD 12,500)**.
- Graduate studies projects of international cooperation and funding, which I supervised in my capacity and duties as a vice president responsible for the Faculty of Graduate Studies at J.U.S.T. These projects include the following:
 - EDU-Syria/EDU-Jordan 2018 - 2021, funded by the EU, Coordinator in Jordan: German Jordan University

(GJU). A scholarship program for Syrian and Jordanian students who are receiving aid from the National Aid Fund. 157 students were enrolled at JUST, and 21 graduated so far. Project fund for JUST: **JD 596,350 (about USD 840,000)**.

- EDU-Syria/EDU-Jordan 2020 - 2023, funded by the EU, Coordinator in Jordan: German Jordan University (GJU). A scholarship program for Syrian and Jordanian students who are receiving aid from the National Aid Fund. 40 students are enrolled at JUST. Project fund for JUST: **(USD 213,343)**. Total project fund (15 Million Euros).
- EDU-Syria/EDU-Jordan 2019-2021, funded by the EU, Coordinator in Jordan: German Jordan University (GJU). A scholarship program for outstanding Jordanian students with limited income and 12 more credit hours to cover their master’s program. 35 students were enrolled at JUST. Project fund for JUST around JD 70,000. **(about USD 100,000)**.
- EDU-Syria/EDU-Jordan 2020-2022, funded by the EU, Coordinator in Jordan: German Jordan University (GJU). A scholarship program for outstanding Jordanian students with limited income and have 12 more credit hours to cover their master’s program. 39 students were enrolled at JUST. Project fund for JUST around JD 78,000. **(about USD 110,000)**.
- GIZ-JOSY: Funded by Germany. Coordinator in Jordan: German Jordan University (GJU). A scholarship program for Syrian and Jordanian students to train and qualify them for the labor market. 6 students are enrolled at JUST. Project fund for JUST about JD 50,000 **(about USD 70,000)**. Total project fund (11.5 Million Euros).
- DAAD, funded by Germany. Scholarships for Arab students from Yemen and Palestine. About 10 students per year. Coordinator in Jordan: German Jordan University (GJU). Project fund for JUST about **(USD 2.5 Million)**.
- Externally attracted funds by colleges under my supervision in my capacity as vice president over the time period 2017 - 2020. Mounts up to a total of **(4,757,900 USD)**

Medicine	Dentistry	Nursing	Applied Medical Sciences	Pharmacy
2,289,400 USD	92,800 USD	1,067,500 USD	1,043,700 USD	264,500 USD

- Income related to the clinical activities (trials and consultations) by the Pharmaceutical Research Center under my supervision in my capacity as vice president and chairman of the board of directors over the time period 2016 - 2020. Mounts up to (1,136,000 USD)

2016	2017	2018	2019	2020
241500 USD	319,400 USD	177,000 USD	61,200 USD	337,100 USD

- Co-funded by L’Oréal UNESCO for Women in Science Levant Fellowship. Association between Mg levels and mental and body wellbeing in community-dwelling adults in Jordan and in people with neurodegenerative diseases. (2018 - 2019) Co-PI (PI: Khalil H). **(12,600 USD)**.
- Faculty research grant. Relationship between Insulin resistance, cognitive function and physical activity in people with multiple sclerosis. (2018 - 2019). Co-PI (PI: Khalil H). **(8000 USD)**.
- Faculty research grant, Jordan University of Science and Technology. The relationship between pain, physical activity and blood biomarkers in people with Parkinson’s disease. (2017 - 2018). Role: Co-PI/ (PI-Khalil H). **(USD 8,500)**.
- EU commission fund (Support to Research and Technological Development & Innovation Initiatives and Strategies in Jordan scheme). Virtual Reality (VR) Based Motor Control Learning for People with Multiple Sclerosis: A Pilot Study. (2015-2016). Role: Co-PI (PI-Khalil H). **(USD 30,000)**.
- Faculty research grant, Jordan University of Science and Technology. Gait variability and risk of falls in people with multiple sclerosis (MS): which clinical characteristics are important? (2014 - 2016). Role: Co-PI (PI-Khalil H). **(USD 13,200)**.

- Faculty research grant, Jordan University of Science and Technology. Electrophysiological changes in critically ill patients, a prospective study. (2002 - 2004). Role PI: **(USD 3,500)**.
- Faculty research grant, Jordan University of Science and Technology. Neurophysiological changes in patients with cystic fibrosis. (2004 - 2006). Role PI: **(USD 2,800)**.
- Multiple pharmaceutical companies funding. AS president of the 5th Jordanian Neurological Society (JNA) Congress (2012) held in Amman, Jordan, we raised **(USD 148,000)** for JNS, which were used to support the congress as well as supporting scientific and CME activities for the members.
- Multiple pharmaceutical companies funding. As a member of the scientific committee for the 6th JNS congress in Amman (2015), Jordan, we raised **(USD 207,000)** for JNS, which were used to support the congress as well as supporting scientific and CME activities for members.
- Multiple pharmaceutical companies funding. As a member of the scientific committee for the seventh JNS congress held in Amman, Jordan (2017), we raised **(USD 240,000)** for JNS, which were used to support the congress as well as supporting scientific and CME activities for members.
- Multiple pharmaceutical companies funding. As a member of the organizing executive committee and the scientific committee of the 16th Pan Arab Union of Neurological Societies meeting held in Amman, Jordan, on 9/2018, we raised around **(USD 280,000)**, which was used to support the congress and sponsor speaker participation from around the world.
- International Brain Research Organization (IBRO), Visiting Lecture Team Program affiliated with UNESCO). Local workshop on neuroscience research at JUST. **(USD 5,000)**.
- Multiple pharmaceutical companies funding (2008). I raised about **(USD 20,000)** for a 2-day conference and meeting with Noble Prize laureate Ferid Murad, who was invited to JUST and gave a series of lectures and student meetings.
- Collaborative project with the Palestinian Neuroscience Initiative entitled (Learning and memory in neurological and psychiatric disorders). Dr. Mohammad Herzallah /PI from Palestine, Dr. K. El-Salem/PI from Jordan, and Co/PI. Amount of 55,000 USD per year for 3 years, to a total of **(165,000 USD)** sponsored by Hikma Pharmaceuticals.
- Bayer Schering pharmaceuticals grant. Cogni-MS study group. Effect of interferon treatment on the cognitive aspects of multiple sclerosis patients. (2005). **(USD 10,000)**.
- International Brain Research Organization (IBRO). As JUST's vice president, I participated in the International Conference and Advanced Neuroscience School in Neurodegenerative Disorders: Translation into Clinical Neurology (2017). Funded by IBRO (about **USD 43,000**).
- Multiple pharmaceutical companies funding. As a member of the Jordanian chapter against epilepsy, we raised about **(USD 15,000)** for the chapter, which were used to support the 1st epilepsy symposium /meeting in the Dead Sea, Jordan in 2013.
- Multiple pharmaceutical companies funding. As a member of the Jordanian chapter against epilepsy, we raised about **(USD 10,000)** for the chapter, which were used to support the 2nd epilepsy symposium /meeting in Amman, Jordan, 2015.
- European Federation of Neurological Societies grant for the best abstract presented on the conference's second day (2007). Distinguished abstract grant of about **(USD 5000)**.
- Influence Health International (IHI) Company services. Support for the ACGME-I accreditation process for Jordan University of Science and Technology, College of Medicine, and King Abdullah University Hospital, a currently ongoing process. The CEO of IHI, Dr. Mohammad Shanti, visited JUST, invited by the president and myself. IHI is a company that has experience preparing institutions for accreditation. They charge 400,000 USD to help with accreditation. Their activity at JUST included workshops for staff, preparing policies, negotiating on behalf of the institution, traveling more than once to the USA to ACGME-I headquarters at their own expense, and serving as the Designated Institutional Officer. Those services were all provided to JUST for one year for free, and the 400,000 USD were waived by a signed letter from the CEO directed to the president of JUST and myself dated January 3rd, 2017. The rest of the accreditation cost, namely those directed to ACGME-I accreditation authorities of a total of about 300,000, will be shared by JUST and KAUH over 5 years installments.
- Roche -JUST Multiple Sclerosis Fellowship program (6/2018). A grant from Roche Pharmaceuticals to establish a multiple sclerosis training and fellowship and take a share in accrediting the neurology program at J.U.S.T. Role: PI **(USD 50,000)**.

- Roche Pharmaceuticals. A grant of (50,000 USD) to cover the costs of obtaining ACCM accreditation for the College of Medicine graduate program. The Board of Trustees approved this project in 2019, and the College of Medicine embarked on the self-assessment stage as the first stage of application.
- Hakeem Pharmaceutical Company (6/2018). Grant for water purification factory at J.U.S.T. The project already started and is ongoing (USD 34,000).

» » » Selected Workshops

- Economic and Social Council. Country Situation Report/Higher Education Section, Amman, Jordan. 13/9/2020.
- Economic and Social Council. Country Situation Report/Higher Education Section, Amman, Jordan. 7/5/2018.
- Second JOSY Conference and Workshop on Higher Education and Forced Migration "From Challenges to Opportunities", Amman, Jordan. 3/2018.
- Launching the Jordanian Ranking of Universities (as acting president of JUST), Accreditation and Quality Assurance Commission for Higher Education Institutions, Amman, Jordan. 12/2017.
- Economic and Social Council. Dead Sea Workshop on higher education reform in Jordan, Dead Sea, Jordan. 14-15/9/2017.
- Economic and Social Council, series of workshops on higher education reform in Jordan, Amman, Jordan. 7/2017 - 9/2017.
- National ranking of Jordanian universities, organized by the Accreditation and Quality Assurance Commission for Higher Education Institutions, Amman, Jordan. 9/7/2017.
- National ranking of Jordanian universities, organized by the Accreditation and Quality Assurance Commission for Higher Education Institutions, Amman, Jordan. 23/5/2017.
- National Framework for Qualifications Workshop, Accreditation and Quality Assurance Commission for Higher Education Institutions, Amman, Jordan. 21/5/2017.
- Creating Pathways to U.S. and Jordanian Universities Pathways. Supported by the U.S. embassy in Jordan, arranged by Eurasia Foundation, University of Jordan. 2/2017.
- Workshop on Curriculum Reform at Faculty of Medicine, JUST, Movenpick Hotel, Petra, Jordan. 5/2007.
- Clinical Assessment Workshop. Foundation for Advancement of International Medical Education and Research (FAIMER), in collaboration with the University of Illinois at Chicago, Faculty of Medicine, JUST, Jordan. 19 - 20/5/2007.
- Education Technology (Testing and Evaluation- University Examinations) Workshop. The Consultative Center for Science and Technology, JUST, Jordan. 1-2/2/2006.
- Organized Structured Clinical Examination (OSCE) Workshop. Faculty of Medicine, JUST, Jordan. 13-15/6/2005.
- Workshop on Curriculum Reform at Faculty of Medicine at JUST, Dead Sea, Jordan. 1-3/2/2008.
- Scientific Research Workshop (Organizer), JUST, Nobel laureate Prof. Ferid Murad gave the main lectures. 1-2/3/2008.
- Education Technology (Effective Teaching Using Multimedia) Workshop, The Consultative Center for Science and Technology, JUST, Jordan. 27-29/9/2004.
- Education Technology (Assessment and Evaluation) Workshop, The Consultative Center for Science and Technology, JUST, Irbid, Jordan. 4-6/2/2003.
- Penry-Ward Epilepsy mini fellowship program, Winston-Salem, North Carolina, USA. 2000.
- ICH-GCP Pfizer Investigator workshop (instructor), Pharmaceutical Research Center, JUST, Jordan. 2014.
- Novartis Neurology Board Review, Houston, Texas, USA. 2000.
- IPSEN Master Class for Botulinum toxin intramuscular injections. Dubai, UAE. 11/2017.
- IPSEN Master Class for Botulinum toxin intramuscular injections. Istanbul, Turkey. 6/2015
- IPSEN Master Class for Botulinum toxin intramuscular injections. Istanbul, Turkey. 10/2014
- Electromyography workshop for neurologists. Dead Sea, Jordan, 2013.

- American University of Beirut Multiple Sclerosis Symposium, Beirut, Lebanon. 2012.
- Jordanian Lebanese Peripheral Neuropathy Workshop (speaker and attendee), Amman, Jordan. 2011.
- Multiple Sclerosis Workshop (Organizer and keynote speaker), JUST, Jordan. 17/2/2007.
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» » » Selected Conferences Attended

- 72nd Annual Meeting of the American Academy of Neurology, Virtual Meeting, USA. 4/2021.
- 71st Annual Meeting of the American Academy of Neurology, Philadelphia, USA. 5/2019.
- Scientific Updates in Neurology. Beirut, Lebanon. 4/2019.
- Jordanian Medical Association, Irbid subcommittee scientific day. 4/2019.
- Innovative Avenues, Practice drives Education, Research, and Policy. International Nursing Congress. JUST, Jordan. . 10/18.
- 51st Meeting of the Association of Arab Universities. Beirut, Lebanon. 4/2018.
- Annual meeting of Cairo University, Cairo, Egypt. Keynote speaker, Lecture "Update on Myasthenia Gravis". 12/2018.
- Middle East and North Africa Commission on Treatment and Research in Multiple Sclerosis congress, Dubai, UAE. 11/2018.
- 33rdECTRIMS (European Commission on Treatment and Research in Multiple Sclerosis), Berlin, Germany. 10/2018.
- 9th International Conference of the Royal Medical Services. Neurology session moderator. 11/18.
- 70th Annual Meeting of the American Academy of Neurology, Los Angeles, USA. 4/2018.
- 32ndECTRIMS/ACTRIMS. Paris, France. 10/2017.
- 69th Annual Meeting of the American Academy of Neurology, Boston, USA. 4/2017.
- Creating Pathways to U.S. and Jordanian Universities Pathways. Supported by the U.S. embassy in Jordan, arranged by Eurasia Foundation. 2/2017.
- Extraordinary Meeting of the Association of Arab Universities. Al-Zaytoonah University of Jordan. 12/2017.
- 31stECTRIMS. London, UK. 9/2016.
- European Academy of Neurology, Copenhagen, Denmark. 6/2016.
- 68th Annual Meeting of the American Academy of Neurology, Vancouver, Canada. 4/2016.
- International Neurology and Rehabilitation Meeting. Istanbul, Turkey. 6/2016.
- 67th Annual Meeting of the American Academy of Neurology, Washington DC, USA. 4/2015.
- 30thECTRIMS/ACTRIMS, Boston, USA. 9/2014.
- 66th Annual Meeting of the American Academy of Neurology, Philadelphia, USA. 4/2014.
- 29thECTRIMS congress, Copenhagen, Denmark. 10/2013.
- 17th World Congress of Neurology, Vienna, Austria. 9/2013.
- 65th American Academy of Neurology Annual Meeting, San Diego, USA. 4/2013.
- 28thECTRIMS congress, Lyon, France. 10/2012.
- 16th Congress of European Federation of Neurological Societies, Stockholm, Sweden. 9/2012.
- 16th Movement Disorders Society Congress, Dublin, Ireland. 6/2012.
- The Joint Continuum Meeting on Peripheral Neuropathy, Lebanese Society of Neurology in collaboration with the Jordanian Neurological Society. Amman, Jordan. 5/2012.
- The 2nd Multiple Sclerosis Symposium. Beirut, Lebanon. 5/2012.
- 27thECTRIMS/ACTRIMS congress, Amsterdam, Netherland. 10/2011.
- 21st European Neurological Society Meeting, Lisbon, Portugal. 5/2011.
- 63rd American Academy of Neurology Annual Meeting, Honolulu, USA. 4/2011.
- The 4th International Congress of the Jordanian Neurological Society in collaboration with the Royal College of Physicians of Edinburgh, Amman, Jordan. 10/2010.
- Royal College of Physicians Edinburgh and the Jordanian Internal Medicine Society. The 10th International Jordanian Conference of Internal Medicine. Amman, Jordan. 5/2010.
- 19th European Stroke Conference, Barcelona, Spain. 5/2010.
- 62nd American Academy of Neurology Annual Meeting, Toronto, Canada. 4/2010.
- First International Congress of the Jordanian Association of Psychiatrists, sponsored by the World Psychiatric Association, Amman, Jordan. 4/2010.
- 61st American Academy of Neurology Annual

- Meeting, Seattle, USA. 4/2009.
- 60th American Academy of Neurology Annual Meeting, Chicago, USA. 4/2008.
- 18th European Neurological Society Meeting, Nice, France. 6/2008.
- 11th Congress of European Federation of Neurological Societies, Brussels. 8/2007.
- Lindau Nobel Laureates Meeting for Medicine, Lindau, Germany. 7/2007.
- 11th Movement Disorders Society congress, Istanbul, Turkey. 6/2007.
- Schering AG Multiple Sclerosis Meeting, St. Petersburg, Russia. 6/2007.
- 10th Congress of the European Federation of Neurological Societies, Glasgow, UK. 5/2007.
- 59th American Academy of Neurology Annual Meeting, Boston, USA. 4/2007.
- Schering Stand-Alone meeting, Bangkok, Thailand. 4/2007.
- Multiple Sclerosis Preceptorship, University of Ottawa, Canada. 11/2006.
- 10th Congress of European Federation of Neurological Societies, Glasgow, UK. 9/2006.
- IBRO course of neurosciences. JUST, Jordan. 6/2006.
- 16th European Neurological Society Meeting, Lausanne, Switzerland. 5/2006.
- 58th American Academy of Neurology Meeting, San Diego, California. 4/2006.
- Schering AG Multiple Sclerosis Symposium, Berlin, Germany. 7/2005.
- 15th European Neurological Society Meeting, Vienna, Austria. 6/2005.
- Serono Multiple Sclerosis Regional Meeting, Moscow, Russia. 6/2005.
- 14th European Stroke Conference, Bologna, Italy. 5/2005.
- Pan Arab Neurology Meeting, Jeddah, KSA. 2/2005.
- Biogen Idec Multiple Sclerosis Symposium, Beirut, Lebanon. 2/2005.
- 8th Congress of European Federation of Neurological Societies, Paris, France. 9/2004.
- 14th European Neurological Society Meeting, Barcelona, Spain. 6/2004.
- 54th American Academy of Neurology Meeting, Denver, Colorado, USA. 4/2002.
- 53rd American Academy of Neurology Meeting, Philadelphia, Pennsylvania, USA. 5/2001.
- 52nd American Academy of Neurology Meeting, San Diego, California, USA. 4/2000.
- Bowman Grey Epilepsy Mini-Fellowship, Wake Forest, North Carolina, USA. 3/2000.