

Prof. Khalid 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 and 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, and finally vice president of JUST (during which he also served as the acting president of JUST and chairman of board of directors of King Abdullah University Hospital for a 4-month transitional period and received a letter of appreciation from the board of trustees for distinguished leadership performance). As the Vice President of JUST, his responsibilities span through the faculties of medicine, dentistry, pharmacy, nursing, applied medical sciences, graduate studies, agriculture, veterinary medicine, as well as the health centers, the pharmaceutical research center, the regional institute for infectious diseases and antimicrobial resistance, and Princess Haya biotechnology center. As a part of his duties, he attended numerous workshops related to higher education and quality assurance, on top of a long list of professional conferences worldwide.

Part of many achievement of El-Salem, he established the first neurology residency program in Jordan along with his peers, which is still the only program in country till 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 (*detailed later*) and chaired the medical and pharmaceutical sector committee for Scientific Research Fund. He also chaired the scientific committee of the Jordanian Board of Neurology and served as a member of the higher education 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, and served on the advisory boards of multiple pharmaceutical companies in the area of his specialty.

Prof. El-Salem presented his scientific research in the highest impact conferences in the field, in the United States and Western Europe, and won the prize of best abstract presented in the 11th Congress of the European Federation of Neurological Societies (EFNS), 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 on-going institutional, national, and international projects.

Qualifications and Certification

- **American Board of Neurology**
University of Arkansas, USA. 2002
- **American Board of Clinical Neurophysiology**
Duke University, USA. 2003
- **American Board of Electrodiagnostic Medicine**
Duke University, USA. 2005
- **American Board of Neuromuscular Medicine**
Duke University, 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, 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**
JUST. 2012- Present
- **Associate Professor of Neurology**
JUST. 2007-2012
- **Assistant Professor of Neurology**
JUST. 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

- **Acting President**
Jordan University of Science and Technology (JUST). 12/2017-3/2018
- **Chairman of the Board of Directors**
King Abdullah University Hospital. 12/2017-3/2018
- **Vice President**
JUST. 2016- Present
- **Dean, Faculty of Graduate Studies**
JUST. 2009-2011 & 2012-2014
- **Vice Dean, Faculty of Graduate Studies**
JUST. 2011-2011
- **Vice Dean of Scientific Research**
JUST. 2007-2008
- **Assistant Dean, College of Medicine**
JUST. 2006-2007
- **Head of Academic Division, Neurosciences**
JUST. 2012-2015
- **Academic Division Supervisor, Neurosciences**
JUST. 2015-2016
- **Head of Academic Division, Neurosciences**
JUST. 2005-2006
- **Clinical Faculty Member, Consultant Neurologist**
JUST. 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**
JUST. 2016-Present
- **Chairman, Board of Directors of Regional Infectious Disease and Antimicrobial Resistance Center**
JUST. 2017-Present
- **Chairman of Institutional Review Board**
JUST. 2012-2016
- **Chairman, Human Subject Research Committee, King Abdullah University Hospital (KAUH)**
2015 (lead 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, 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

Administrative Councils & Executive Committees

Institutional *Jordan University of Science and Technology*

- **University Council**
2009-2011, 2012-2014, 2016-to date
- **Deans Council**
2009-2011, 2012-2014, 2016-to date
- **Hiring and Promotion Committee**
2016- to date
- **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-to date
- **Department of Internal Medicine Council**
2002-2004
- **Chairman, Strategic Planning Committee**
2016-to date
- **Chairman, Student Aid Regulation committee**
2016-to date
- **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- to date
- **Chairman, Employee Disciplinary Committee**
2016-2017
- **Chairman, Health and Safety University Committee**
2018-2019
- **Chairman, University Achievements Preparatory Committee**
2018- to date
- **Member, College of Medicine Strategic Planning, Accreditation, and Quality Assurance 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**
 - **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

- **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, Central 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, which is a subcommittee from the National Committee for Developing Human Resources.
- **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).

International and Regional

- **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- to date).
- **Pan-Arab Neurological Societies Scientific Board** (2018- to date).
- **Neuromuscular Section of the American Academy of Neurology** USA (2011-to date).

- **Consortium of Neurology Residency Program Directors**
American Academy of Neurology, (2017-to date).
- **Member, International American Academy of Neurology Online Community**
American Academy of Neurology, (2018-to date).

Honors and Awards

- 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. (http://www.ju.edu.jo/lists/UJRankingList/Disp_Form_New.aspx?ID=121) and the top cited in the field of adult neurology.
- Nominated among the top three candidates for the presidency of the University of Jordan in 9/2018.
- Received Jordan University of Science and Technology Board of Trustees appreciation for outstanding leadership of the university as acting president (12/2017-3/2018).
- 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). 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.
- 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 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, (1998-2000). Little Rock, Arkansas, USA.
- 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. (2000).
- 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 as Vice President of JUST

As vice president of Jordan University of Science and Technology I am responsible for the colleges of medicine, dentistry, pharmacy, nursing, applied medical sciences, and graduate studies. In addition, I am 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, as well as 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 in groups:

Accreditations

- 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 finished the process of ACEN (Accreditation Commission for Education in Nursing) accreditation for the college of nursing (based in the United States of America), and received initial recommendation for accreditation. We expect to get the final official accreditation within a few weeks.
- 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 human subject research file for JCI accreditation of KAUH.

Graduate Studies

- Launching new master programs, including:
 - MSc. Program in Nursing/Adult Acute Care Nursing. Faculty of Nursing.
 - MSc. Program in Nursing/ Pediatric Acute Care Nursing. Faculty of Nursing.
 - 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 PhD program in Pharmacy, and the first batch of students joined on the first semester 2017.
- Activating a PhD program in Civil Engineering, and the first batch of students joined on the first semester 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 the academic year 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:
 - An MSc Program in Health Information Systems at the Faculty of Computer and Information Technology which is supported by the Erasmus + Project and has been 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

- 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.
- Restructuring and reformation of the first year of studying in all and each of the bachelor programs so that it would serve as a preparatory year for that specific program.
- Expanding the application of blended learning methods and initiating problem-based and project-based learning in several courses at different faculties, and the expansion of 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 methods of teaching and learning.

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 and improve services, as well as introducing 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 and well developed inter and intranet access, as well as 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. The hospital is funded by an external grant as part of the Gulf grants to Jordan.
- Converting numerous processes at the university and colleges levels into totally electronic processes, and applying modern, efficient and effective administrative procedures, to improve horizontal communication between different units.
- Improving the web sites 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 Times Higher Education (THE) global ranking, in the 2001-300 according to 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 (Listed below)

- 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 Industry committee, which planned and supervised an action plan to activate and foster strong relations with 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 card 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 are 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 regulations for “Summer Research” for academic staff.
- Committee for preparing university matrix for scholar 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 in the 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 concentration on new methods of teaching in blended learning and design and implementation of on line course.
- About 200 academic staff from the health related colleges participated in international and national conferences.

International cooperation

- Numerous memorandums of understanding were signed with reputable universities and international institutions. Those MOU's were activated and used for faculty and student mobilization, aiming at building capacity and 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 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 and 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, which attracted a significant number of 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 graduate studies level, scientific research level, and consulting services level.

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 to holding free courses for students, and communicating 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 by 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, and activating the role of 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 as well as the health centers contributed to this.
- Multiple awareness days and reach outs were conducted in schools, malls, and primary health care centers.
- Multiple fund raising activities for underprivileged students.
- Multiple activities related to Syrian refugees support.
- Promoting general health activities and smoking sensation related campaigns.
- Planting trees in multiple areas in neighboring towns.

Graduate Students and Teaching Experience

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 supervised, trained and graduated numerous specialists and consultants in neurology including higher Specialty in Neurology (Equivalent to Masters Degree, 28 students), and Fellowship in Neurology (equivalent to PhD, 6 students) with a total of 34 graduate trainees.

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

I founded an advanced Neurophysiology Laboratory at Jordan University of Science and Technology and King Abdullah University Hospital along with my peers. 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 as the most advanced neurophysiology laboratory in the country.

I was also responsible for teaching the following courses:

- Director of Clinical Skills and Introductory Course for fourth year medical students, 2006.
- Neurosciences course for fifth year medical students, 2002-present.
- Neurosciences course for physical medicine and rehabilitation students, 2003-2005.
- Neurosciences II course for third year medical students, 2004-present.
- Neurology residency didactic course, 2005-present.
- Neurology for second year, higher specialty neurology students, 2006-present.
- Neurology for third year, higher specialty neurology students. 2006-present.
- Neurology for fourth, year higher specialty neurology students. 2006-present.
- Neurology for fifth, year higher specialty neurology students. 2006-present.
- Neurology course for neurology residents at the University of Arkansas for Medical Sciences, 1997-2001.
- Clinical Neurophysiology course for neurology residents at the Duke University Medical Center, 2001-2002.

Publications: International Indexed Refereed Journals

1. **El-Salem K**, Yassin A, Al-Hayk K. et. al. Treatment of MuSK associated myasthenia gravis. *Curr Treat Options Neurol*. 2014 Apr; 16(4): 283.
2. **El-Salem K**, Khassawneh B, Alrefai A, Dwairy A, Rawashdeh S. Interval neurophysiological changes in non-septic critically ill mechanically ventilated patients. *J Clin Neurophysiol* 2012; 29: 349–352.
3. **El-Salem K**, Ababneh B, Rudnicki S. et. al. Prevalence and risk factors of muscle complications secondary to statins. *Muscle Nerve* 2011; 44(6): 877-81.
4. **El-Salem K**, Aburahma S, Rawashdeh M. Peripheral nerve dysfunction in patients with cystic fibrosis. *J Clin Neurophysiol* 2010; 27:216-18.
5. **El-Salem K**, Ammari F, Khader Y, Dhaimat O. Elevated glycosylated hemoglobin is associated with subclinical neuropathy in neurologically asymptomatic diabetic patients: A prospective study. *J Clin Neurophysiol*. 2009; 26(1): 50-53
6. **El-Salem K** and Shakhathreh M. Prospective double-blind cross over trial of EMG pain, *Muscle and Nerve* 2008; 38: 1016–1020.
7. **El-Salem K**, Ammari F. Neurophysiological changes in neurologically asymptomatic hypothyroid patients: a prospective cohort study. *J Clin Neurophysiol*. 2006; 23:568-572
8. **El-Salem K**, Al-Shimmery E, Horany K. et. al. Multiple sclerosis in Jordan: a clinical and epidemiological study. *J Neurol*. 2006; 253(9): 1210-6.
9. **El-Salem K**, Khader Y. Comparison of the natural history and prognostic features of early onset and adult onset multiple sclerosis in Jordanian population. *Clin Neurol Neurosurg*. 2007; 109:32-37.
10. **El-Salem K**, Al-Shimmery E, Horany K, Al-Refai A, Khader Y. Early onset multiple sclerosis in Jordan: a retrospective analysis. *Journal of Pediatric Neurology*. 2006 (4): 155-60.
11. Alzoubi K, Al Hilo A, Al-Balas Q, **El-Salem K**, El-Elmat T, Alali F. Withania somnifera root powder protects against post-traumatic stress disorder-induced memory impairment. *Molecular Biology Reports* (2019). In Press.
12. Al-Sharman A, Khalil H, **El-Salem K**, Alghwiri A, Khazaaleh S, Khraim M. Motor performance improvement through virtual reality task is related to fatigue and cognition in people with multiple sclerosis. *Physiotherapy Research International* (2019). In press.
13. Alsalem M, Haddad M, Aldossary S, Kalbouneh H, Azab B, Dweik A, Imraish A, **El-Salem K**. Effect of dual peroxisome proliferator-activated receptors alpha and gamma activation in two rat models of neuropathic pain. *PPAR Research* (2019). In press.

14. Aldossary SA, Alsalem M, Kalbouneh H, Haddad M, Azab B, Al-Shboul O, Mustafa AG, Obiedat S, **El-Salem K**. The role of transient receptor potential vanilloid receptor 1 and peroxisome proliferator-activated receptors- α in mediating the antinociceptive effects of palmitoylethanolamine in rats. *Neuroreport*. 2019;30(1):32-37.
15. Alsalem M, Haddad M, Aldossary SA, Kalbouneh H, Altarifi A, Jaffal SM, Abbas MA, Aldaoud N, **El-Salem K**. Role of cannabinoid receptor 1 and the peroxisome proliferator-activated receptor alpha in mediating anti-nociceptive effects of synthetic cannabinoids and a cannabinoid-like compound. *Inflammopharmacology*. In Press.
16. Yamout B, **El-Salem K**, Gebeily S, et. al. Multiple Sclerosis in the Levant: a regional consensus statement. *Int J Neurosci*. 2014 May; 124(5): 377-82.
17. Sanders DB, **El-Salem K**, Massey JM, McConville J, Vincent A. Clinical aspects of MuSK antibody positive seronegative MG. *Neurology* 2003 June 24; 60(12): 1978-80.
18. Alrefai A, **El-Salem K**, Saadeh R, Balas H. A case report of cranial polyneuropathy in Behcet's disease. *Neurol Sci*. 2010 Feb; 31(1): 83-5.
19. Khalil H, AlSharman A, **El-Salem K**, Alghwiri A, Al-Shorafat D, Khazaaleh S, Abu foul L. The Development and Pilot Evaluation of Virtual Reality Balance Scenarios in People with Multiple Sclerosis (MS); a Feasibility Study. *NeuroRehabilitation*. 2018 (In Press).
20. Al-Sharman A, Khalil H, Nazzal M, Al-Sheyab N, Alghwiri A, **El-Salem K**, AlDughmi M. Living with multiple sclerosis, a Jordanian perspective. *Physiotherapy Research International* 2018;23(2). e1709.
21. Alghwiri A, Khalil H, Al-Sharman A, **El-Salem K**. Depression is a predictor of balance in people with multiple sclerosis. *Multiple Sclerosis and Related Disorders* 2018;(24):28-31.
22. Khalil H, Al-Shorman A, **El-Salem K**, Abdo N, Alghwiri A, Aburub A, Shalabi S, Al-Mustafa F. Fear of falling in people with multiple sclerosis: Which clinical characteristics are important? *Physical Therapy*. 2017(97);7: 698-706.
23. Alroughani R, Deleu D, **El Salem K**, Al-Hashel J, Alexander K, Abdelrazek M, Aljishi A, Alkhaboori J, Al Azri F, Al Zadjali N, Hbahbih M, Sokrab T, Said M, Rovira N. A regional consensus recommendation on brain atrophy as an outcome measure in multiple sclerosis. *BMC Neurology* 2016(16); 1.
24. Alsalem M, Altarifi A, Kalbouneh H, Al-Zer, Azab B, **El-Salem K**. The role of PPAR α and PPAR γ in mediating the analgesic properties of ibuprofen in vivo and the effects of dual PPAR α/γ activation in inflammatory pain model in the rat. *International Journal of Pharmacology*. 2016 (12);8:812-820.
25. Alsalem M, Millns P, Altarifi A, **El-Salem K**, Chapman V, Kendall DA. Anti-nociceptive and desensitizing effects of olvanil on capsaicin-induced thermal hyperalgesia in the rat. *BMC Pharmacol Toxicol*. 2016 Jul 21;17(1):31.
26. Khader Y, Al-Zoubi D, Amarin Z, Alkafagei A, Khasawneh M, Burgan S, **El-Salem K**, Omari M. Factors affecting medical students in formulating their specialty preferences in Jordan. *BMC Medical Education* 2008, 8:32.
27. Daoud AS, Ajlouni S, **El-Salem K**, Horani K, Otoom S, Daradkeh T. Risk of seizure recurrence after a first unprovoked seizure: a prospective study among Jordanian children. *Seizure*. 2004 Mar; 13(2): 99-103.
28. Alrefai A, Habahbih M, Alkhawajah M, Darwish M, Batayha W, Khader Y, **El-Salem K**. Prevalence of Parkinson's disease in Northern Jordan. *Clin Neurol Neurosurg*. 2009; 111(10): 812-5.
29. Khader Y, Khatatbeh M, **El-Salem K**, Amarin Z, Bateiha A. The metabolic syndrome among patients undergoing cardiac catheterization in Jordan. *J Cardiometab Syndr*. 2008 Fall; 3(4): 224-8.
30. Khader Y, Khassawneh B, Obeidat B, Hammad M, **El-Salem K**, Bawadi H, Al-akour N. Periodontal status in patients with metabolic syndrome compared to those without metabolic syndrome. *J Periodontol*. 2008 Nov; 79(11): 2048-53.

Publications: Conference Papers

1. **El-Salem K**, Alsharman A, Khalil H, Alghwiri A. Understanding motor performance in people with multiple sclerosis using virtual reality. *Neurology* 92(15 supplement) 2019, P3. 2-030.
2. **El-salem K**, Alsharman A, Khalil H, Al-Shorafat D, Esser P, Dawes H. The extent of relationship between sleep disturbances and walking ability in people with multiple sclerosis. *Neurology* 92 (15 supplement) 2019, P5. 2-096.
3. Alsharman A, Khalil H, Alghwiri A, **El-Salem K**, Aburub A, Al-Shorafat D. Arabic modified fatigue impact scale: validity and reliability in people with multiple sclerosis. *Neurology* 92(15 supplement) 2019, P5. 2-103.
4. **El-Salem K**, Ababneh B. Prevalence and risk factors of muscle complications secondary to statins. 62nd Annual meeting of the American Academy of Neurology. 4/2010, Toronto, Canada.

5. **El-Salem K**, Ammari I, Khader Y, Dhaimat O. Elevated Glycosylated Hemoglobin is associated with subclinical neuropathy in neurologically asymptomatic type two diabetic patients, a prospective study. 11th Congress of the European Federation of Neurological Societies, August 27th, 2007, Brussels, Belgium.
6. **El-Salem K**, Aburahma S, Rawashdeh M. Peripheral Neurophysiological changes in Cystic Fibrosis Patients. 11th Congress of the European Federation of Neurological Societies, August 27th, 2007, Brussels, Belgium.
7. **El-Salem K**, Shakhathreh M. Ibuprofen reduces pain during needle electromyography: a prospective, randomized, double blind, placebo-controlled trial. 59th Annual Meeting of the American Academy of Neurology April 28th, 2007, Boston, USA.
8. **El-Salem K**, Ammari F. Neurophysiological changes in neurologically asymptomatic hypothyroid patients: A prospective cohort study. European Neurological Society (2005).
9. D.B. Sanders, **El-Salem K**, J.M. Massey, J. McConville, and A. Vincent, Muscle Specific Receptor Tyrosine Kinase (MuSK) Positive Seronegative Myasthenia Gravis, Clinical Characteristics and Response to Treatment. 55th Annual Meeting of the American Academy of Neurology (2003).
10. **K. El-Salem**, D.B. Sanders, J.M. Massey, J. McConville, and A. Vincent, Muscle Specific Receptor Tyrosine Kinase (MuSK) Positive Seronegative Myasthenia Gravis, Clinical Characteristics and Response to Treatment. Myasthenia Gravis Foundation of America (2002).
11. **K. El-Salem**, J.M. Massey. Three patients with Features of Myasthenia Gravis and Motor Neuron Disease. Myasthenia Gravis Foundation of America (2001).
12. Khalil H, Al-Sharman A, Alissa N, **El-Salem K**, Al-Shorofat D. The association between pain and physical activity in people with Parkinson's Disease (PD). [abstract]. Mov Disord. 2018; 33 (suppl 2).
13. Khalil H, Al-Sharman A, Alissa N, **El-Salem K**, Al-Shorofat D. The validity of the Arabic King's PD Pain Scale in people with Parkinson's disease [abstract]. Mov Disord. 2018; 33 (suppl 2).
14. Khalil H, Al-Sharman A, Kazaaleh S, **El-Salem K**. The Development of Virtual Reality (VR) Balance Scenarios to Improve Balance in People with Multiple Sclerosis (MS). ECTRIMS online library; 145683. 2016.
15. Alhusban A, Alqawasmeh M, Alfawares F, **El-Salem K**. Oral hypoglycemic agents reduce the neurologic deficit in patients with acute ischemic stroke. European Stroke Conference. 27th conference, Athens, Greece, April 11-13, 2018.
16. Yassin A, Aqaileh S, Al Qawasmeh M, **El-Salem K**, et al. Isolated subtle asymmetric slowing on EEG leading to the diagnosis of encephalitis. 16th Pan-Arab Union of Neurological Societies meeting. Amman, Jordan, 9/2018.
17. Al Qawasmeh M, AlHusban A, **El-Salem K**, et al. Assessing the utility of thrombospondin-1 as a biomarker for stroke severity. European Stroke Conference. 27th conference, Athens, Greece, April 11-13, 2018.
18. Al Qawasmeh M, AlHusban A, **El-Salem K**, et al. Assessing the utility of thrombospondin-1 as a biomarker for stroke severity. 16th Pan-Arab Union of Neurological Societies meeting. Amman, Jordan, 9/2018.
19. Al Qawasmeh M, AlHusban A, **El-Salem K**, et al. The management of hypertension in stroke patients. 16th Pan-Arab Union of Neurological Societies meeting. Amman, Jordan, 9/2018. Al-Sharman A, Khalil H, Nazzal M, Alshalabi S, Alghwiri A, **El-Salem K**. Prospective experience of Jordanian people with MS. Multiple Sclerosis J. 2016;22 (6), NP4-NP5.
20. Khalil H, Al-Sharman A, Kazaaleh S, **El-Salem K**. The development of Virtual Reality Balance Scenarios to improve balance in people with Multiple Sclerosis. Multiple Sclerosis Journal. 2016;(22):826
21. **El-Salem K**, Ammari F, Khader Y, and Dhaimat O. Elevated glycosylated hemoglobin is associated with subclinical neuropathy in neurologically asymptomatic diabetic patients: A prospective study. European Journal of Neurology. 2007; 14; 251-251.
22. **El-Salem K**, Ammari F. Neurophysiological changes in neurologically asymptomatic hypothyroid patients: a prospective cohort study. Journal of Neurology. 2005;252; 142-142.
23. **El-Salem K**, Aburahma S, Rawashdeh M. Peripheral Neurophysiological Changes in Cystic Fibrosis Patients: A Prospective Cohort Study. European Journal of Neurology. 2007; 14, 251-251.
24. **El-Salem K**, et. al. Prospective study of Prevalence and risk factors of muscular complications among patients using statins. 2010;74 (9), A 185-A 185.
25. **El-Salem K**, et al. Ibuprofen reduces pain during needle electromyography. Neurology. 2007; 68 (12); A 374- A 374.
26. Sanders DB, **El-Salem K**, Massey JM. Muscle specific tyrosine kinase positive, seronegative myasthenia gravis. Clinical characteristics and response to therapy. Neurology 2003; 60 (Suppl 1): A418.
27. Alhusban A, Alqawasmeh M, Alfawares F, **El-Salem K**. Oral hypoglycemic agents reduce the neurologic deficit in patients with acute ischemic stroke. Cerebrovascular diseases. 2018;45:1-1, 289.

Selected Oral Presentations / Invited Speaker

1. A new era in the management of RMS and PPMS. Lebanese Neurological Society MS Meeting, June 22nd, 2019. Byblos, Lebanon.
2. Insights into the current treatment of multiple sclerosis and continuous immunosuppression. Scientific Updates in Neurology, April 5th, 2019, Beirut, Lebanon.
3. Higher Education Facing the Challenge of Refugee Students. 2nd JOSY Conference on Higher Education and Forced Migration "From Challenges to Opportunities". May 7th, 2018, Amman, Jordan.
4. Update on Myasthenia Gravis. Annual meeting of Neurology Department at Cairo University. Keynote speaker. 12/2018, Cairo, Egypt.
5. Disease modifying therapies in multiple sclerosis. Jordanian Medical Association, Zarqa subcommittee 6th scientific day. April 20th, 2019, Zarqa, Jordan.
6. Multiple Sclerosis in Pregnancy. 16th Pan Arab Union of Neurological Societies meeting, 9/2018, Amman, Jordan.
7. Treatment of Multiple Sclerosis. Jordanian Physicians Association Annual meeting. 4/2017. Irbid, Jordan.
8. Botulinum Toxin Injections for Focal Dystonia. IPSEN neurology meeting. 8/2017. Amman, Jordan.
9. Status Epilepticus, an Update. Royal College of Physicians of Edinburgh and the Jordanian Internal Medicine Society. The 10th International Jordanian Conference of Internal Medicine. 6/2010: Amman, Jordan.
10. World Federation of Chiropractic, 5th Eastern Mediterranean Meeting. Chairman of the local organizing committee, 4/2010, JUST, Jordan.
11. Multiple Sclerosis in Jordan. American University of Beirut MS symposium. 5/2012: Beirut, Lebanon.
12. Update on Stroke. Eastern Saudi Province Neurological Meeting. 4/2009: Khobar, KSA.
13. Neurophysiological Changes in Medical Diseases (Grand Rounds). University of Arkansas for Medical Sciences, 5/2007, Little Rock, Arkansas.
14. New Interventions in Multiple Sclerosis. Syrian Neurological Association. 5/2008, Damascus, Syria.
15. Ain Shams University (Adel Sadeq Psychiatry Hospital, Cairo, Egypt), board review of neurophysiology for psychiatry residents. 3/2004, Cairo, Egypt.
16. Acute Inflammatory Demyelinating polyneuropathy. Joint meeting of the Jordanian and Lebanese Neurological Societies meeting. 5/2012, Amman, Jordan.
17. Anticholinergic Medications and Neurophysiology of Dementia. Jordanian Neurological Association. 2/2004, Amman, Jordan.
18. Multiple Sclerosis in the Region. Bayer Schering Stand-Alone meeting. 4/2007, Bangkok, Thailand.
19. Immune mediated neuropathies. 7th International Congress of the Jordanian Neurological Society. 9/2016, Amman, Jordan.
20. Electromyography Signal Analysis. Jordanian Neurological Society meeting. 9/2015, Dead Sea, Jordan.
21. Controversies in Neurology. President, the Fifth International Congress of the Jordanian Neurological society. 11/2012: Amman, Jordan.
22. Clinical Approach to Peripheral Neuropathy. Jordanian Neurological Society 11/2011, Amman, Jordan.
23. Neuromuscular Diseases Update. 4th International Jordanian Neurology Congress. 10/2010, Amman, Jordan.
24. Electromyography Signals. Jordanian Neurological Society. 8/2008, Amman, Jordan.
25. Electromyography Signals workshop. Jordanian Neurological Society. 5/2012, Dead Sea, Jordan.
26. International Brain Research Organization Course- Visiting Lecture Team Program (affiliated with UNESCO). Clinical aspects of MuSK antibody myasthenic patients, 7/2006, Irbid, Jordan.
27. Neurophysiology of Myasthenia Gravis. Jordanian Neurological Association. 2/2005: Amman, Jordan.
28. Antiepileptic Medications-Molecular Mechanisms of Action. Epilepsy Symposium. 4/2004, Sana, Yemen.
29. Spectrum of Paraneoplastic Neurological Diseases. King Abdullah University Hospital (Grand Rounds). 3/2004: Irbid, Jordan.
30. Neurophysiological Characteristics of Paraneoplastic Peripheral Neurological Diseases. King Hussein Cancer Center. 3/2003: Amman, Jordan.
31. Anti-MuSK Antibodies and Seronegative Myasthenia Gravis. Duke University Medical Center. 5/2002: Durham, North Carolina. USA.
32. Post-Polio Syndrome. Duke University Medical Center, 5/2002, Durham, North Carolina. USA.
33. Seronegative Myasthenia Gravis. University of Arkansas for Medical Sciences, 4/2001, Little Rock, Arkansas, USA.

Participating in Research and Development Projects

National

- Multiple Sclerosis Central Committee, appointed by minister of health, developed national protocols for the treatment of multiple sclerosis. 2015-to date.
- Multiple Sclerosis Registry. Jordanian Physicians Association and Jordanian Neurological Society. 2016- ongoing.
- 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).

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).

International

- Erasmus+ project. Training for Medical Education Via Innovative E-Technology (MediTec). Role: Member of the technical team at JUST. (2017-2020).
- 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 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).
- Multiple Sclerosis (MS Base) International Study Group. Primary Investigator for Jordan. (2015-present).
- Collaborative project between 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).

Selected Workshops

- Economic and Social Council. Country Situation Report/Higher Education Section, 7/5/2018, Amman, Jordan.
- Second JOSY Conference and Workshop on Higher Education and Forced Migration "From Challenges to Opportunities". 3/2018. Amman, Jordan.
- Launching the Jordanian Ranking of Universities (as acting president of JUST), Accreditation and Quality Assurance Commission for Higher Education Institutions, 12/2017, Amman, Jordan.
- Economic and Social Council. Dead Sea Workshop on higher education reform in Jordan. 14-15/9/2017, Dead Sea, Jordan.
- Economic and Social Council, series of workshops on higher education reform in Jordan (7/2017-9/2017), Amman, Jordan.

- National ranking of Jordanian universities, organized by the Accreditation and Quality Assurance Commission for Higher Education Institutions, 9/7/2017, Amman, Jordan.
- National ranking of Jordanian universities, organized by the Accreditation and Quality Assurance Commission for Higher Education Institutions, 23/5/2017, Amman, Jordan.
- National Framework for Qualifications Workshop, Accreditation and Quality Assurance Commission for Higher Education Institutions, 21/5/2017, Amman, Jordan.
- Creating Pathways to U.S. and Jordanian Universities Pathways. Supported by the U.S. embassy in Jordan, arranged by Eurasia Foundation, 2/2017, University of Jordan.
- Workshop on Curriculum Reform at Faculty of Medicine, JUST. 5/2007. MovenPick Hotel, Petra, Jordan.
- 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. 19-20/5/2007. JUST, Jordan.
- Education Technology (Testing and Evaluation- University Examinations) Workshop. 1-2/2/2006. The Consultative Center for Science & Technology. JUST. , Jordan.
- Organized Structured Clinical Examination (OSCE) Workshop. Faculty of Medicine. 13-15/6/2005, JUST, Jordan.
- Workshop on Curriculum Reform at Faculty of Medicine at JUST. 1-3/2/2008, Dead Sea, Jordan.
- Scientific Research Workshop (Organizer), JUST 1-2/3/2008. Nobel laureate Prof. Ferid Murad gave the main lectures.
- Education Technology (Effective Teaching Using Multimedia) Workshop. 27-29/9/2004. The Consultative Center for Science & Technology. JUST. , Jordan.
- Education Technology (Assessment and Evaluation) Workshop. 4-6/2/2003. The Consultative Center for Science & Technology. JUST. Irbid, Jordan.
- Penry-Ward Epilepsy mini fellowship program (2000). Winston-Salem, North Carolina, USA.
- ICH-GCP Pfizer Investigator workshop (instructor), Pharmaceutical Research Center, 2014, JUST, Jordan.
- Novartis Neurology Board Review (2000). Houston, Texas, USA.
- 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). 17/2/2007, JUST, Jordan.

Selected Conferences Attended

- 5/2019: 71st Annual Meeting of the American Academy of Neurology, Philadelphia, USA.
- 4/2019: Scientific Updates in Neurology. Beirut, Lebanon.
- 4/2019: Jordanian Medical Association, Irbid subcommittee scientific day.
- 10/2018: Innovative Avenues, Practice drives Education, Research, and Policy. International Nursing Congress. JUST, Jordan.
- 4/2018: 51st Meeting of the Association of Arab Universities. Beirut, Lebanon.
- 12/2018: Annual meeting of neurology department at Cairo University, Cairo, Egypt. Keynote speaker, Lecture "Update on Myasthenia Gravis".
- 11/2018: Middle East and North Africa Commission on Treatment and Research in Multiple Sclerosis congress, Dubai, UAE.
- 10/2018: 33rd ECTRIMS (European Commission on Treatment and Research in Multiple Sclerosis), Berlin, Germany.
- 11/2018: 9th International Conference of the Royal Medical Services. Neurology session moderator.
- 4/2018: 70th Annual Meeting of the American Academy of Neurology, Los Angeles, USA
- 10/2017: 32nd ECTRIMS/ACTRIMS. Paris, France.
- 4/2017: 69th Annual Meeting of the American Academy of Neurology, Boston, USA

- 2/2017: Creating Pathways to U.S. and Jordanian Universities Pathways. Supported by the U.S. embassy in Jordan, arranged by Eurasia Foundation.
- 12/2017: Extraordinary Meeting of the Association of Arab Universities. Al-Zaytoonah University of Jordan.
- 9/2016: 31st ECTRIMS. London, UK.
- 6/2016: European Academy of Neurology, Copenhagen, Denmark
- 4/2016: 68th Annual Meeting of the American Academy of Neurology, Vancouver, Canada
- 6/2016: International Neurology and Rehabilitation Meeting. Istanbul, Turkey.
- 4/2015: 67th Annual Meeting of the American Academy of Neurology, Washington DC, USA
- 9/2014: 30th ECTRIMS/ACTRIMS, Boston, USA
- 4/2014: 66th Annual Meeting of the American Academy of Neurology, Philadelphia, USA
- 10/2013: 29th ECTRIMS congress, Copenhagen, Denmark
- 9/2013: 17th World Congress of Neurology, Vienna, Austria
- 4/2013: 65th American Academy of Neurology Annual Meeting, San Diego, USA
- 10/2012: 28th ECTRIMS congress, Lyon, France
- 9/2012: 16th Congress of European Federation of Neurological Societies, Stockholm, Sweden
- 6/2012: 16th Movement Disorders Society Congress, Dublin, Ireland
- 5/2012: 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
- 10/2011: 27th ECTRIMS/ACTRIMS congress, Amsterdam, Netherland
- 5/2011: 21st European Neurological Society Meeting, Lisbon, Portugal
- 4/2011: 63rd American Academy of Neurology Annual Meeting, Honolulu, USA
- 10/2010: The 4th International Congress of the Jordanian Neurological Society in collaboration with the Royal College of Physicians of Edinburgh, Amman, Jordan.
- 5/2010: 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
- 4/2010: 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.
- 4/2009: 61st American Academy of Neurology Annual Meeting, Seattle, USA
- 4/2008: 60th American Academy of Neurology Annual Meeting, Chicago, USA
- 6/2008: 18th European Neurological Society Meeting, Nice, France
- 8/2007: 11th Congress of European Federation of Neurological Societies, Brussels
- 7/2007: Lindau Nobel Laureates Meeting for Medicine, Lindau, Germany
- 6/2007: 11th Movement Disorders Society congress, Istanbul, Turkey
- 6/2007: Schering AG Multiple Sclerosis Meeting, St. Petersburg, Russia
- 5/2007: 10th Congress of the European Federation of Neurological Societies, Glasgow, UK.
- 4/2007: 59th American Academy of Neurology Annual Meeting, Boston, USA
- 4/2007: Schering Stand-Alone meeting, Bangkok, Thailand
- 11/2006: Multiple Sclerosis Preceptorship, University of Ottawa, Canada
- 9/2006: 10th Congress of European Federation of Neurological Societies, Glasgow, UK
- 6/2006: IBRO course of neurosciences. JUST, Jordan.
- 5/2006: 16th European Neurological Society Meeting, Lausanne, Switzerland
- 4/2006: 58th American Academy of Neurology Meeting, San Diego, California
- 7/2005: Schering AG Multiple Sclerosis Symposium, Berlin, Germany
- 6/2005: 15th European Neurological Society Meeting, Vienna, Austria
- 6/2005: Sero Multiple Sclerosis Regional Meeting, Moscow, Russia
- 5/2005: 14th European Stroke Conference, Bologna, Italy
- 2/2005: Pan Arab Neurology Meeting, Jeddah, KSA
- 2/2005: Biogen Idec Multiple Sclerosis Symposium, Beirut, Lebanon

- 9/2004: 8th Congress of European Federation of Neurological Societies, Paris, France
- 6/2004: 14th European Neurological Society Meeting, Barcelona, Spain
- 4/2002: 54th American Academy of Neurology Meeting, Denver, Colorado, USA
- 5/2001: 53rd American Academy of Neurology Meeting, Philadelphia, Pennsylvania, USA
- 4/2000: 52nd American Academy of Neurology Meeting, San Diego, California, USA
- 3/2000: Bowman Grey Epilepsy Mini-Fellowship, Wake Forest, North Carolina, USA

Editorial / Referee Experience

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

Advisory Boards for Pharmaceutical Industry

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

Licenses

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

Community Service

- 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 based. The details of work of this committee and my contribution to it is detailed under the section of 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 worked as a volunteer for multiple non-governmental organization and societies such as the Jordanian Multiple Sclerosis Society for which I offered free of charge monthly clinic 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 multiple 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 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, Johfiyyeh, 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 American Syrian Medical Association.
- Smoking Cessation campaign volunteer in both 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 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.