

# EMAN Y. ABU-RISH M.Sc., Ph.D.

Associate professor of clinical pharmacy and therapeutics  
School of Pharmacy, University of Jordan  
Amman, Jordan

Effective date: March, 2021

## PERSONAL INFORMATION

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Name: Eman Yousuf Abu-rish  
Nationality: Jordanian  
Languages: Arabic (Native)  
English (Fluent)  
Current Address: Department of Biopharmaceutics and Clinical Pharmacy  
School of Pharmacy, University of Jordan  
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Amman, 11942  
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## EDUCATION

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2009-2013 Ph.D. degree in clinical Pharmacy and therapeutics  
College of Medicine, University of Leicester, Leicester, UK.  
Research topic:  
The role of toll-like receptor 9 on B-cell activating factor expression  
and function in normal human B-cells

2007-2009 Master Degree in Clinical Pharmacy  
School of Pharmacy, University of Jordan, Amman, Jordan.  
GPA 3.94/4.0  
Research topic:  
Comparative Study of the Biological Potency of Recombinant  
Human Erythropoietin in Pharmaceutical Products in Jordan.

2002-2007 B.Sc. Pharmacy  
School of Pharmacy, University of Jordan, Amman, Jordan.  
GPA 4.0/4.0

## TRAINING AND WORKING EXPERIENCE

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2007-2009 Teaching assistant at the school of Pharmacy, University of Jordan.

2013-2017	Assistant professor, Department of Biopharmaceutics and Clinical pharmacy, school of Pharmacy, University of Jordan, Amman, Jordan.
2017-current 21-25/1/2016	Associate Professor in Clinical Pharmacy and Therapeutics Staff development workshops including (18 credit hours) /by Accreditation and Quality Assurance Center/University of Jordan.: <ul style="list-style-type: none"> <li>○ The University of Jordan code of practice for quality assurance (3 credit hours).</li> <li>○ Course design (3 credit hours).</li> <li>○ Intended learning outcomes (3 credit hours).</li> <li>○ Modern trend in University teaching and student centered learning (3 credit hours).</li> <li>○ Exams preparation and learner's assessment (3 credit hours).</li> <li>○ Laws, Bylaws and regulations of the university of Jordan (3 credit hours).</li> </ul>
2017	Training workshop on project-based learning/by Accreditation and Quality Assurance Center/Univeristy of Jordan.
2017	Trainng workshop on flipped learning/school of pharmacy/Accreditation and Quality Assurance Center/University of Jordan.
2017	Matching course ILOs to program ILOs in Course Syllabus/by Accreditation and Quality Assurance Center/University of Jordan.
2017	Training workshop on Advanced Excel 2016 skills/Efficiency and Productivity at your fingertips/by Accreditation and Quality Assurance Center/University of Jordan.
2018	Training workshop on Automated Exam/by Accreditation and Quality Assurance Center/University of Jordan.
2018	Training workshop on How to increase your citation rate/by Accreditation and Quality Assurance Center/University of Jordan.
2019	Training workshop on Creating effective surveys using google forms/by Accreditation and Quality Assurance Center/University of Jordan.
2019	Training workshop on Blended learning/by Accreditation and Quality Assurance Center/University of Jordan.
2019	Training workshop on Conducting a quiz in Moodle/by Accreditation and Quality Assurance Center/University of Jordan.
2020	Attendance of a Microsoft team Meeting about “Introduction to Lecturio distance medical learning/ Techknowledge”, arranged by the school of pharmacy, University of Jordan (April 7 <sup>th</sup> 2020).
2020	Exam Preperation Using Learning Management system (LMS)/ by Accreditation and Quality Assurance Center/University of Jordan

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#### **AWARDS & SCHOLARSHIPS**

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2002-2007	Scientific Achievement Scholarship to pursue B.Sc. degree kindly provided Ministry of Higher Education Amman, Jordan
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2007-2009	Scientific Achievement Scholarship to pursue master degree kindly provided University of Jordan, Amman, Jordan.
2009-2013	Scientific Achievement Scholarship to pursue Ph.D. degree kindly provided by University of Jordan, Amman, Jordan.
2009-2013	Parital international student scholarship to pursue Ph.D degree kindly provided by University of Leicester, Leicester, UK.

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## TEACHING EXPERIENCE

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### **B.sc. in pharmacy and pharmD courses:**

- Pharmacology I (1203363).
- Pharmacology II (1203364).
- Pharmacotherapy I (1203426)
- Pharmacotherapy II (1203429).
- Immunology & Genetics (1213302)
- Gastroenterology clerkship (1203601)
- Gynecology clerkship (1203605)
- Surgery clerkship (1203606)
- Nephrology clerkship (1203601)
- Research project (1203610)
- Seminars in Biopharmaceutics and clinical pharmacy (1203573).
- Case studies in therapeutics 1 (1203427).
- Case studies in therapeutics 2 (1203430).
- Pharmacology practical (1203365)

### **Master in clinical pharmacy courses:**

- General Hospital Training 2 (1203713)
- Pharmaceutical Care (1203711)
- Master student supervision and examination committee membership

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## PUBLICATIONS

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**Abu-rish EY** & Barakat NA. The impact of pharmacist-led educational intervention on pneumococcal vaccine awareness and acceptance among elderly in Jordan. *Human Vaccines & Immunotherapeutics* 2020; 1-9 (Online ahead of print).

Elayeh E, **Abu-rish EY**, Yousef A. Effect of Dividing Low Dose Aspirin on Platelet Reactivity and the Correlation with Patient-related Factors Jordan. *Journal of Pharmaceutical Sciences* 2020; 13 (2): 185-195.

**Abu-rish EY**, Mansour AT, Mansour HT, Dahabiyeh LA, Aleidi SM, Bustanji Y. Pregabalin inhibits in vivo and in vitro cytokine secretion and attenuates spleen inflammation in Lipopolysaccharide/Concanavalin A -induced murine models of inflammation. *Scientific Reports* 2020; 10(1):4007. doi: 10.1038/s41598-020-61006-1.

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Dahabiyeh LA, **Abu-rish EY** and Taha MO. Inhibition of monoglyceride lipase by proton pump inhibitors: investigation using docking and in vitro experiments. *Pharmacological Reports* 2019;72(2), 435-442, doi: 10.1007/s43440-019-00013-0.

Qasem A, Kasabri V, **Abu-rish EY**, Bustanji Y, Al-Hiari Y, AlAbbasi R, AbuRmilha B, Alalawi S. Evaluation OF Potential Cytotoxic Effect of Different Proton Pump Inhibitors on Different Human Cancer Cell Lines. *Anti-Cancer Agents in Medicinal Chemistry* 2020; 20(2):245-253. doi: 10.2174/1871520619666191029151545.

Aleidi SM, Shayeb E, Bzour J, **Abu-rish EY**, Hudaib M, Al Alawi S, Bustanji Y. Serum level of insulin-like growth factor-I in type 2 diabetic patients: impact of obesity. *Hormone molecular biology and clinical investigation* 2019; 39(1). pii: /j/hmbci.2019.39.issue-1/hmbci-2019-0015/hmbci-2019-0015.xml. doi: 10.1515/hmbci-2019-0015.

**Abu-rish EY**, Elayeh ER, Browning MJ. Travelers to U.S.: Zika Virus Knowledge, Attitudes, and Determinants of Practices in the Middle East-Insights for Future Awareness Campaigns. *International Journal of Environmental Research and Public Health* 2019 Jul 14;16(14):2517. doi: 10.3390/ijerph16142517.

**Abu-rish EY**, Elayeh ER and Browning MJ. Physicians' knowledge, attitudes and practices towards Zika virus infection in Jordan. *Journal of infection in developing countries* 2019 ;13 (7):584-590.

**Abu-rish EY**, Eman R. Elayeh, and Abla M. Albsoul-Younes. The Role of the Middle East in ZIKA Virus Circulation: Implications of a Cross-Sectional Study in Jordan. *American Journal of Tropical Medicine and Hygiene* 2019;100(4):974-980. doi: 10.4269/ajtmh.18-0715.

**Abu-rish EY**, Lina A. Dahabiyeh, Yasser Bustanji, Yehia S. Mohamed, Michael J. Browning. Effect of lamotrigine on in vivo and in vitro cytokine secretion in murine model of inflammation. *Journal of Neuroimmunology* 2018; 322: 36–45.

Elhayek S., Fararjeh M., Assaf A., **Abu-rish EY** and Bustanji Y. Immunomodulatory effects of tigecycline in Balb/c mice. *Acta Pharmaceutica* 2018; 68: 457–469.

Fraihat,A., Alatrash A., Abbasi R., Abu-Irmaileh B., Hamed S., Mohammad M. and **Abu-rish EY**, Bustanji Y. Inhibitory effects of methanol extracts of selected plants on the proliferation of two human melanoma cell lines. *Tropical Journal of Pharmaceutical Research* 2018; 17 (6): 1081-1086.

**Abu-Rish EY**, Elhayek S., Mohamed Y., Hamad I., Bustanji Y. Evaluation of immunomodulatory effects of lamotrigine in BALB/c mice. *Acta pharamceutica* 2017; 67(4):543-555.

Elayeh E., Mohammad M., Fararjeh M., **Abu-rish EY**, Hamad I., Kasabri V., Akour A, Bustanji Y. Prevalence of Aspirin Resistance among Jordanian Patients with

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Cardiovascular Disease. *International Journal of Toxicological and Pharmacological Research* **2017**; 9 (2); 99-104.

**Abu-rish EY.**, Elayeha ER, Mousa LA, Butanji YK, Albsoul-Younes AM. Knowledge, awareness and practices towards seasonal influenza and its vaccine: implications for future vaccination campaigns in Jordan. *Family Practice* **2016**; 33(6):690-697.

Mohamed Y., Bashawri L., Vatte C, **Abu-rish EY.**, Cyrus C., Khalaf W., Browning M. The in vitro generation of multi-tumor antigen-specific cytotoxic T cell clones: Candidates for leukemia adoptive immunotherapy following allogeneic stem cell transplantation. *Molecular Immunology* **2016**; 77: 79-88.

**Abu-rish EY.**, Kasabri V., Hudaib M.M., Mashalla S., AlAlawi L.H., Tawaha K, Mohammad M.K., Mohamed Y.S. and Bustanji B. Evaluation of Antiproliferative Activity of Some Traditional Anticancer Herbal Remedies from Jordan. *Tropical Journal of Pharmaceutical research* **2016**; 15 (3): 469-474.

Mohammad M., Kasabri V., Zalloum H., Tayyem R., **Abu-rish EY.**, Al-hiari Y., and Bustanji Y. Antilipolytic property of curcumin: molecular docking and kinetic assessment. *Revue roumaine de chimie* **2015**; 60 (10): 931-1014.

Mohamed Y., Ghareeb K., Gomaa F., and **Abu-rish EY.** In Vitro Generated Tumor/APC Hybrids Induce Allogeneic Tumor-Killer T Cells. *EC Microbiology* **2015**; 2 (3): 296-306.

**Abu-rish EY.**, Amrani Y., Browning M.J. Toll-like receptor 9 activation induces expression of membrane-bound B-cell activating factor (BAFF) on human B cells and leads to increased proliferation in response to both soluble and membrane-bound BAFF. *Rheumatology* 2013; 52: 1190-201.

## GRANTS AND FUNDED RESEARCH PROJECTS

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- |      |   |
|------|---|
| 2014 | The role of TLR9, BAFF and APRIL genes involved in SLE patients on their treatment response and end-stage organ damage (funded by the Deanship of Scientific Research, University of Jordan) (2014-2017).       |
| 2015 | Knowledge, awareness and attitude of the Jordanian adults population toward influenza and influenza vaccine (funded by the Deanship of Scientific Research, University of Jordan) (2015-2016).                  |
| 2017 | Characterization of the Immunomodulatory effects of new generation antiepileptic drugs (funded by the Deanship of Scientific Research, University of Jordan) (2017-2020).                                       |
| 2019 | Investigation of the new role of the multitasking medication (Metformin) as anti-aging drug in patients with type 2 diabetes (funded by the Deanship of Scientific Research, University of Jordan) (2017-2020). |

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2019	Pneumococcal vaccine coverage in Jordan (funded by the Deanship of Scientific Research, University of Jordan) (2019-2021).
2020	Evaluation of the Levels of inflammatory mediators in pediatric patients with epilepsy (funded by the Deanship of Scientific Research, University of Jordan) (2020-2023).

## CONFERENCES

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- **Abu-rish E.Y.**, Amrani Y., Browning M.J. The role of toll-like receptor 9 in B-cell activating factor (BAFF) expression and function in normal human B-cells. The 3<sup>rd</sup> European Congress of Immunology, Glasgow, Scotland, September, 2012. (*poster presentation*)
- **Abu-rish E.Y.**, Amrani Y., Browning M.J. Toll-like receptor 9 induction of BAFF in human B-cells: new insights to SLE pathogenesis. The 5<sup>th</sup> International Jordanian Congress of Allergy and Immunology, Amman, Jordan, May 2014. (*Talk*)
- Participation in the Public Sector Pharmacists Conference, Amman Jordan, June 11-13<sup>th</sup>, 2015. (*Participant*)
- Participation in the Third Pharmacy students research Training program, pharmacy student research club, University of Jordan, September 6<sup>th</sup>-9<sup>th</sup>, 2015. (*participant*)
- **Abu-rish E.Y.**, Kasabri V., Hudaib M.M., Mashalla S., AlAlawi L.H., Tawaha K, Mohammad M.K., Mohamed Y.S. and Bustanji Y. In Vitro evaluation of the antiproliferative activity of some medicinal plants traditionally used against cancer in Jordan. International Conference on Natural Products and Drug Design, the University of Jordan, Amman, Jordan 8-10 September 2015. (*poster presentation*)
- **Abu-rish E.Y.**, Kasabri V., Hudaib M.M., Mashalla S., AlAlawi L.H., Tawaha K, Mohammad M.K., Mohamed Y.S. and Bustanji Y. In Vitro evaluation of the antiproliferative activity of some medicinal plants traditionally used against cancer in Jordan. The 1st International Conference of the Jordanian Faculties of Pharmacy "JFP", Isra university in Amman- Jordan on October 28<sup>th</sup> -29<sup>th</sup>, 2015. (*Poster presentation*)
- **Abu-rish E.Y.**, Kasabri V., Hudaib M.M., Mashalla S., AlAlawi L.H., Tawaha K, Mohammad M.K., Mohamed Y.S. and Bustanji Y. In Vitro evaluation of the antiproliferative activity of some medicinal plants traditionally used against cancer in Jordan, the Al-Zaytoonah university and Toledo University International pharmaceutical Conference (ZTIPC Conference), at Al-Zaytoonah University of Jordan, Amman. 21-23 October 2015 (*Poster presentation*)

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- Participation in the On-site Pre-application consultation conference –faculty of pharmacy/university of Jordan (ACPE 14-15/2/2015). (*Participant*)
  - The 4<sup>th</sup> international conference of the school of pharmacy-The University of Jordan. The 2<sup>nd</sup> conference of the association of faculties of Pharmacy at Jordan Universities, entitled: "Excellence in Pharmacy Education and Research: A Quality Approach". School of Pharmacy, the University of Jordan, Amman, Jordan. 25-27 October 2016. (*Participant*)
  - **Abu-rish E.Y.**, Kasabri V., Hudaib M.M., Mashalla S., AlAlawi L.H., Tawaha K, Mohammad M.K., Mohamed Y.S. and Bustanji Y. In Vitro evaluation of the antiproliferative activity of some medicinal plants traditionally used against cancer in Jordan. The 6th International Jordanian Congress of Allergy & Immunology. The 2nd Pediatric Rheumatology Arab Group Meeting. Amman-Jordan on July 26<sup>th</sup>- 28<sup>th</sup>, 2017. (*Talk*)
  - Atoum Dana, **Abu-rish E.Y**, Bustanji Y. Characterization of the immunomodulatory effects of Gemifloxacin in vivo and in vitro in Balb-C mice. The 6th International Jordanian Congress of Allergy & Immunology. The 2nd Pediatric Rheumatology Arab Group Meeting. Amman-Jordan on July 26<sup>th</sup>- 28<sup>th</sup>, 2017. (*Talk of a master student*).
  - **Abu-Rish E.**, Elhayek S., Mohamed Y., Hamad I., Bustanji Y. Evaluation of immunomodulatory effects of lamotrigine in BALB/c mice. The 5th Middle East Molecular Biology Congress and Exhibition 2018 –Jordan. Dead Sea-Jordan on 3<sup>rd</sup> - 6<sup>th</sup> October 2018. (*Talk*)
  - **Abu-rish E.Y.**, Elayeh ER, Mousa LA, Butanji Y and Albsoul-Younes A. Knowledge, awareness and practices towards seasonal influenza and its vaccine: implications for future vaccination campaigns in Jordan. The 5th Middle East Molecular Biology Congress and Exhibition 2018 –Jordan. Dead Sea-Jordan on 3<sup>rd</sup> - 6<sup>th</sup> October 2018. (*Poster*).
  - **Abu-rish E.Y.**, Elayeh ER, Mousa LA, Butanji Y and Albsoul-Younes A. Knowledge, awareness and practices towards seasonal influenza and its vaccine: implications for future vaccination campaigns in Jordan. 1st FIP Regional Conference for the Eastern Mediterranean-Envisioning the future together: Transforming pharmacy for better primary healthcare. Amman-Jordan on 25<sup>th</sup>-26<sup>th</sup> April 2019. (*Poster*)
  - **Abu-rish E.Y.**, Lina A. Dahabiyeh, Yasser Bustanji, Yehia S. Mohamed, Michael J. Browning. Effect of lamotrigine on in vivo and in vitro cytokine secretion in murine model of inflammation. The 7th International Jordanian Congress of Allergy & Immunology. Amman-Jordan on 21<sup>st</sup> -23<sup>rd</sup> August 2019. (*Talk*).
  - Qasem A, **Abu-rish EY**, Kasabri V, Bustanji Y, Al-Hiari Y, AlAbbasi R, AbuRmilha B, Alalawi S. Evaluation OF Potential Cytotoxic Effect of

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Different Proton Pump Inhibitors on Different Human Cancer Cell Lines. The First International Conference on Pharmaceutical Sciences (ICPS). Gaza-Palestine on 23<sup>rd</sup> -24<sup>th</sup> August , 2019. (*Poster of a master student*).

- Wellness JO conference-Towards healthy life style. Al Hussein cultural center, Amman-Jordan on 22<sup>nd</sup> -23<sup>rd</sup> February 2020. (*Participant*)
- **Abu-Rish EY**, Mansour AT, Mansour HT, Dahabiyeh LA, Aleidi SM, Bustanji Y. Pregabalin inhibits in vivo and in vitro cytokine secretion and attenuates spleen inflammation in Lipopolysaccharide/Concanavalin A -induced murine models of inflammation. The first international health conference for the Jordan Healing and Health Bank. Amman-Jordan 8<sup>th</sup> -10<sup>th</sup> Dec, 2020. (*Talk*)
- The first international health conference for the Jordan Healing and Health Bank. Amman-Jordan 8<sup>th</sup> -10<sup>th</sup> Dec, 2020. (Member in the Conference scientific committee and moderator for the session of pharmacy)
- **Abu-rish E.Y.**, Lina A. Dahabiyeh, Yasser Bustanji, Yehia S. Mohamed, Michael J. Browning. Effect of lamotrigine on in vivo and in vitro cytokine secretion in murine model of inflammation. 2020 Symposium of The School of Pharmacy-Recent updates in Pharmacy and Pharmaceutical Sciences on 2021. (*Talk*) (*Accepted*)
- **Abu-rish EY**, Elayeh ER and Browning MJ. Physicians' knowledge, attitudes and practices towards Zika virus infection in Jordan. 2020 Symposium of The School of Pharmacy-Recent updates in Pharmacy and Pharmaceutical Sciences on 2021. (*poster*) (*accepted*)

## SCIENTIFIC MEETINGS

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|------|---|
| 2014 | Optimizing medicine reconciliation at the health interface: a PhD story, by Dr Eman A. Hammad, Feb. 27 <sup>th</sup> , 2014. Faculty of pharmacy, University of Jordan.                               |
| 2014 | Modern family planning methods, by Mais Halaiqah, WHO. Faculty of pharmacy, University of Jordan.   |
| 2014 | Novel insight into the molecular mechanism mediating steroid resistance in patients with severe asthma, by Dr Yassine Amrani, May 26 <sup>th</sup> , 2014. Faculty of pharmacy, University of Jordan. |
| 2014 | USP Quality Standards for Medicines, presented by: Benoît Rime, Nov 16 <sup>th</sup> 2014.  |
| 2015 | Accreditation Council for Pharmacy Education (ACPE) lecture by Prof. Mike Rouse B.Pharm, Feb. 14 <sup>th</sup> 2015.  |



2017	The 7 <sup>th</sup> Scientific day by Hamdi Mango center for scientific research "Local trends in pharmaceutical technology" on April 13 <sup>th</sup> 2017. Participated and as a member in the evaluation committee for the best students' applied scientific projects
2017	Cultural Book Exhibition by Hamdi Mango center for scientific research on Oct. 26 <sup>th</sup> 2017.
2018	MEMBS Molecular Biology Day 3, Hamdi Mango center for scientific research, The University of Jordan, on April 11 <sup>th</sup> 2018.
2018	The 8 <sup>th</sup> Scientific day by Hamdi Mango center for scientific research "Like Engraving on a Stone" on April 26 <sup>th</sup> 2018. Participated as a member in the evaluation committee for the best students' applied scientific projects.
2020	Celebration for the recipients of L'Oreal-UNESCO "For Women in Science" Levant Young Talents Program

## MEMBERSHIPS

2007-current	Jordan Pharmacists Association. Amman, Jordan.
2013-2014	The course equivalency committee, School of Pharmacy, The University of Jordan.
2014-2016	Curricula and courses committee", School of Pharmacy, The University of Jordan.
2014-2015	Courses' curricula self-evaluation report preparation committee for ACPE Accreditation, School of Pharmacy, The University of Jordan.
2014-2016	Jordan pharmaceutical association: member at the scientific committee (2014-2016).
2015-2016	Coordination of teaching Pharmacology, pharmacotherapy and clinical training committee, School of Pharmacy, The University of Jordan.
2016-2017	Editorial board member at the "International Journal of clinical pharmacology and pharmacotherapy" <a href="https://www.graphyonline.com/journal/editorial_board.php?journalid=IJCPP">https://www.graphyonline.com/journal/editorial_board.php?journalid=IJCPP</a>
2017-2019	School of pharmacy' electronic website Committee, School of pharmacy, The University of Jordan
2017-2018	Course Syllabus, Course reports and course files evaluation committee, Department of Biopharmaceutics and Clinical Pharmacy, School of Pharmacy, The University of Jordan.
2017-2018	

2017-current	Graduates Committee, School of pharmacy, The University of Jordan
2017-current	Middle East Molecular Biology Sources (MEMBS)
2017-2018	Jordan Society for Scientific research
2018-current	The Committee of the Evaluation of PhD Scholarship applications in pharmacology, School of pharmacy, The University of Jordan.
2018-2019	Graduation Committee, School of pharmacy, The University of Jordan
2020	Graduates Committee, School of pharmacy, The University of Jordan
2020	The Scientific committee for the First Symposium of the School of Pharmacy, The University of Jordan: “Recent Updates in Pharmacy and Pharmaceutical Sciences”, to be held in 2021.
2020-current	Member in the scientific committee in The first international health conference for the Jordan Healing and Health Bank. Amman-Jordan 8 <sup>th</sup> -10 <sup>th</sup> Dec, 2020.
2020-current	Member in the Chemicals, equipment and Laboratory committee, school of pharmacy, University of Jordan.
2020-current	Member in the Editorial Board of Al-Azhar Journal of Pharmaceutical Sciences, AJPS. The official peer-reviewed journal of the Faculty of Pharmacy, Al-Azhar University, Cairo, Egypt.

## **TECHNICAL SKILLS**

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- Flow cytometry.
- Mice Handling.
- Splenocytes and peritoneal macrophages isolation.
- In vivo studies in mice
- Western blotting.
- Real time PCR.
- ELISA.
- Tissue culture techniques.
- Cytotoxicity assays
- Radioactive assays
- Immunological assays
- Building up questionnaires
- Statistical analysis using SPSS and Graphpad Prism.

## REFERENCES

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- Dr. Micheal J Browning, MD, PhD  
Department of Infection, Immunity and Inflammation, University of Leicester ([mjb22@leicester.ac.uk](mailto:mjb22@leicester.ac.uk)), and Department of Immunology, Leicester Royal Infirmary, Leicester, UK ([michael.browning@uhl-tr.nhs.uk](mailto:michael.browning@uhl-tr.nhs.uk))
  
- Dr. Yassine Amrani, PhD  
Department of Infection, Immunity and Inflammation, University of Leicester, and Institute of Lung Health, University of Leicester ([ya26@le.ac.uk](mailto:ya26@le.ac.uk))
  
- Prof. Yasser K Bustanji  
Department of Biopharmaceutics and Clinical Pharmacy Faculty of Pharmacy  
The University of Jordan.  
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