

CURRICULUM VITAE

Personal

Name	ORIANA AWWAD , BSc, PhD Pharmacy
Place and Date of Birth	Pisa (Italy); December 27th, 1984
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Education

University Degree	BSc DEGREE IN PHARMACY , The University of Jordan, Amman - Jordan (2002-2007). GPA: 3.04 (Very Good), Passed the University Qualification Exam
Postgraduate education	PhD IN CLINICAL PHARMACY , Dept. of Clinical and Experimental Pharmacology, University of Pisa, Pisa - Italy (2008 – 2010) (<i>World top 300 universities – ARWU rank</i>) <u>PhD Thesis</u> : Pharmacological modulation of the adenosine system as a novel strategy for the treatment of inflammatory bowel diseases.

Work Experiences

2010 – 2011	FELLOWSHIP IN GASTROINTESTINAL PHARMACOLOGY , University of Pisa, Pisa – Italy
2011 – 2015	LECTURER , The University of Jordan, Amman – Jordan
Jan 2016 – July 2016	POST-DOC FELLOW , Erasmus Mundus Scholarship – Fondazione Salvatore Maugeri, Pavia – Italy
2015 – present	ASSISTANT PROFESSOR , Dept. of Biopharmaceutics and Clinical Pharmacy, School of Pharmacy, The University of Jordan, Amman – Jordan (<i>Accreditation Council for Pharmacy Education (ACPE)</i>)

Taught Courses and Clinical Training

- Pharmacology
- Pharmacotherapy
- Toxicology
- Clinical toxicology

- **Research Project in Pharmacy Practice**
- **Seminar in Biopharmaceutics and Clinical Pharmacy**
- **Clinical Pharmacy Practice Instructor** for PharmD and MSc student (clerkships training)

Organizational memberships/committees

2007 – Recent	MEMBER OF THE JORDAN PHARMACEUTICAL ASSOCIATION , Amman, Jordan
2013 – 2014	MEMBER OF THE SCIENTIFIC RESEARCH COMMITTEE – The University of Jordan, Amman – Jordan
2013 – 2015	MEMBER OF THE BIOEQUIVALENCE COMMITTEE – Jordan Food and Drug Administration (JFDA), Amman - Jordan
2014 – 2016	MEMBER OF THE SEMINARS AND CONFERENCES COMMITTEE – The University of Jordan, Amman - Jordan
2016 – Recent	MEMBER OF THE SOCIAL SERVICES COMMITTEE – The University of Jordan, Amman – Jordan

Main Fields of Scientific Research

A. Pharmacy Practice

- Development of pharmaceutical care education
- Investigating patients' rational drug use
- Promoting patients' rational drug use
- Misuse and abuse in clinical practice
- Risk factors for colorectal cancer (drug-induced)

B. Experimental pharmacology

- Role of adenosine system in the treatment of inflammatory bowel diseases
- Role of adenosine system in the treatment of colorectal cancer
- Role of AMP-activated protein kinase (AMPK) in the treatment of colorectal cancer
- Effect of native medicinal plants from Jordan in the treatment of colorectal cancer

Funded Research

- Role of AMPK in the treatment of colorectal cancer: molecular, cellular and *in vivo* approaches, 2012, Deanship of Academic Research at UJ
- Misuse and Abuse of PPI in Clinical Practice in Jordanian Population, 2013, Deanship of Academic Research at UJ
- Assessment Patients' medication knowledge and adherence in Jordan, 2014, Deanship of Academic research at UJ
- Identifying the major risks factor of colorectal cancer in patients with colitis in Jordan, 2015, Deanship of Academic research at UJ

Skills

- Computer skills. Extensive experiences in Word; Power Point; Excel; Graph Pad Prism
- Statistics with SPSS
- Time management
- Highly organized and methodical member of a productive team
- Research experiences and technical skills in different laboratory tools as well as experimental animals
- Data and information collection
- Writing and presenting reports

Languages

- **Italian:** mother tongue
- **Arabic:** mother tongue
- **English:** fluent (TOEFL certification)
- **French:** fair

Consulting and Other Experiences

- External examiner for MSc students in clinical pharmacy and pharmacy practice, Jordan University for Science and Technology, Irbid -Jordan
- Attended the workshop for academic staff development (*teaching and assessment methods, management of MCQs, grading system rules, curriculum development*), 2012, The University of Jordan, Amman – Jordan
- Visiting professor, invited at Umdurman University to teach selected topics in pharmacotherapy to post-graduate (MSc) students, Sudan, 2014
- Attended Horizon 2020 training. Proposal Writing for H2020 EU funding opportunities, 2016, Support to Research Technological Development and Innovation in Jordan – Phase II (SRTD II), Amman - Jordan

Peer-reviewed original research publications:

- 1) Antonioli L, Fornai M, Colucci R, Ghisu N, Tuccori M, **Awwad O**, Bin A, Zoppellaro C, Castagliuolo I, Gaion RM, Giron MC, Blandizzi C. Control of enteric neuromuscular functions by A₃ purinergic receptors in the normal rat distal colon and experimental bowel inflammation. *Br J Pharmacol* 2010; 161:856-871
- 2) Antonioli L, Fornai M, Colucci R, **Awwad O**, Ghisu N, Tuccori M, Da Settimo F, La Motta C, Natale G, Duranti E, Viridis A, Blandizzi C. The blockade of adenosine deaminase ameliorates chronic experimental colitis through the recruitment of adenosine A_{2A} and A₃ receptors. *J Pharmacol Exp Ther* 2010, 335: 434-442

- 3) Antonioli L, Fornai M, Colucci R, **Awwad O**, Ghisu N, Tuccori M, Del Tacca M, Blandizzi C.
Differential recruitment of high affinity A1 and A2A adenosine receptors in the control of colonic neuromuscular function in experimental colitis. *Eur J Pharmacol.* 2011, 650: 639-649
- 4) Fornai M, Colucci R, Antonioli L, **Awwad O**, Ugolini C, Tuccori M, Fulceri F, Natale G, Basolo F, Blandizzi C. Effects of esomeprazole on healing of nonsteroidal anti-inflammatory drug (NSAID)-induced gastric ulcers in the presence of a continued NSAID treatment: characterization of molecular mechanisms. *Pharmacol Res.* 2011, 63:59-67
- 5) Antonioli L, Colucci R, La Motta C, Tuccori M, **Awwad O**, Da Settimo F, Blandizzi C, Fornai M. Adenosine deaminase in the modulation of immune system and its potential as a novel target for treatment of inflammatory disorders. *Curr Drug Targets.* 2012, 13(6):842-62. Review.
- 6) Colucci R, Antonioli L, Bernardini N, Ippolito C, Segnani C, **Awwad O**, Tuccori M, Blandizzi C, Scarpignato C, Fornai M. NSAID Activated Gene (NAG-1) plays a role in the impairing effects of cyclooxygenase inhibitors on gastric ulcer healing. *J Pharmacol Exp Ther.* 2012, 342(1):140-9.
- 7) Antonioli L, Fornai M, **Awwad O**, Giustarini G, Pellegrini C, Tuccori M, Caputi V, Qesari M, Castagliuolo I, Brun P, Giron MC, Scarpignato C, Blandizzi C, Colucci R. Role of the A2B receptor-adenosine deaminase complex in colonic dysmotility associated with bowel inflammation in rat. *Br J Pharmacol.* 2014, 171(5):1314-29.
- 8) **Awwad O**, Akour A, Al-Muhaisen S, Morisky D. The influence of patients' knowledge on adherence to their chronic medications: a cross-sectional study in Jordan. *Int J Clin Pharm.* 2015, 37(3):504-10
- 9) Rotondi M, Coperchini F, **Awwad O**, Pignatti P, DiBuduo CA, Abbonante V, Magri F, Balduini A, Chiovato L. Effect of interferon- γ on the basal and the TNF α -stimulated secretion of CXCL8 in thyroid cancer cell lines bearing either the RET/PTC rearrangement or the BRAF V600e mutation. *Mediators Inflamm.* 2016, 2016(2):1-7
- 10) Coperchini F, **Awwad O**, Rotondi M, Santini F, Imbriani M, Chiovato L. Thyroid disruption by perfluorooctane sulfonate (PFOS) and perfluorooctanoate (PFOA). *J Endocrinol Invest.* 2016. [Epub ahead of print]
- 11) Zalloum N, Abu Farha R, **Awwad O**, Samara N. Inappropriate prescribing of proton pump inhibitors among patients in two Jordanian tertiary health facilities. *Trop J Pharm Res.* 2016, 15(11):2489

Posters and Presentations

- 1) **Awwad O**, Taliani S, Simorini F, La Motta C, Salerno S, Marini AM, Da Settimo Passetti F, Cosimelli B, Greco G, Novellino E, Da Pozzo E, Martini C. Substituted 2-Arylindolglyoxylamides as potent translocator protein (18 kDa) TSPO ligands: synthesis and biological evaluation. *Nuove prospettive in*

chimica farmaceutica, Castelvechio Pascoli (LU), February, 12-14, 2009 – III Meeting-workshop, pp 166-166

- 2) Fornai M, Antonioli L, Colucci R, Ghisu N, Da Settimo F, La Motta C, **Awwad O**, Natale G, Duranti E, Del Tacca M, Blandizzi C. Mechanisms underlying the anti-inflammatory effects of adenosine deaminase inhibitors in experimental colitis XXXIV Congresso Nazionale della Società Italiana di Farmacologia, Rimini, 14-17 Oct. 2009
- 3) Antonioli L, Fornai M, Colucci R, Ghisu N, **Awwad O**, Tuccori M, Natale G, Fulceri F, Rugani I, Duranti E, Viridis A, Del Tacca M, Blandizzi C. AMP-activated protein kinase as a novel target for the pharmacological treatment of inflammatory bowel diseases. *Digestive Disease Week 2010 – New Orleans (LA., U.S.A.) May, 1-5 Gastroenterology 138 Suppl 1#1077*
- 4) Fornai M, Colucci R, Antonioli L, **Awwad O**, Natale G, Ghisu N, Ugolini C, Tuccori M, Basolo F, Del Tacca M, Blandizzi C. Effects of proton pump inhibitors on healing of NSAID-induced gastric ulcerations in the presence of a continued NSAID treatment: characterization of molecular mechanisms. *Digestive Disease Week 2010 – New Orleans (LA., U.S.A.) May, 1-5 Gastroenterology 138 Suppl 1 W1720*
- 5) **Awwad O**. AMP-activated protein kinase as a novel target for the pharmacological treatment of inflammatory bowel diseases. European School of Medicinal Chemistry. Urbino, 4-9 July 2010
- 6) **Awwad O**. Pharmacological modulation of AMP-activated protein kinase as a novel strategy for the treatment of inflammatory bowel diseases. XIV Seminario Nazionale per Dottorandi in Farmacologia e Scienze Affini. Siena, Certosa di Pontignano, 20-23 September 2010
- 7) Antonioli L, Fornai M, Colucci R, **Awwad O**, Tuccori M, Maramai C, Natale G, Fulceri F, Rugani I, Duranti E, Viridis A, Blandizzi C. Pharmacological modulation of AMP-activated protein kinase as a novel target for the treatment of inflammatory bowel diseases. XXXV Congresso Nazionale della Società Italiana di Farmacologia, Bologna, 14-17 Sept. 2011
- 8) Antonioli L, Fornai M, Colucci R, **Awwad O**, Tuccori M, Bin A, Gaion RM, Castagliuolo I, Giron MC, Blandizzi C. Control of enteric neuromuscular functions by adenosine receptors under normal conditions and in the presence of bowel inflammation. XXXV Congresso Nazionale della Società Italiana di Farmacologia, Bologna, 14-17 September 2011
- 9) Antonioli L, Fornai M, Colucci R, **Awwad O**, Giustarini G, Tuccori M, Castagliuolo I., Gaion RM, Giron MC, Scarpignato C, Blandizzi C. Altered adenosine signalling in the presence of bowel inflammation: role of A_{2B} receptors in the control of colonic motility. *Digestive Disease Week 2012 – San Diego (CA., U.S.A.) May, 19-22 Gastroenterology*, CONTROL ID: 1293314

- 10) **Awwad O**, Antonioli L, Fornai M, Colucci R, Blandizzi C. Pharmacological modulation of AMPK as a novel strategy for the treatment of inflammatory bowel diseases. The 15th scientific congress of the association of colleges in the arab world and the 3rd international conference of the faculty of pharmacy. Recent Trends and Advances in Pharmacy/the University of Jordan, Amman, October 9-11, 2012
- 11) **Awwad O**. Adenosine Deaminase in the Modulation of Immune System and its Potential as a Novel Target for Treatment of Inflammatory Disorders. The 5th International Jordanian Congress of Allergy and Immunology, Amman - Jordan May 28-30, 2014
- 12) **Awwad O**, Akour A, Al-Muhaisen S, Morisky D. The influence of patients' knowledge on adherence to their chronic medications: a cross-sectional study in Jordan, Jordan Pharmaceutical Association Conference – Amman, Jordan - June, 11-13, 2015
- 13) Afifi F, **Awwad O**, Abaza I. The effect of the galling aphid *Baizongia pistaciae* leaves on the composition and biological activities of the essential oil of *Pistacia atlantica* leaves. The 29th International Symposium on the Chemistry of Natural Products and the 9th International Conference on Biodiversity”, Turkey - September 24-27, 2016.

References

- **Prof. Nailya Bulatova**
Professor of Pharmacology & Therapeutics,
Vice Dean, Faculty of Pharmacy, The University of Jordan, Amman - Jordan (e-mail: nyounes@ju.edu.io)
- **Prof. Donald E. Morisky**
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Department of Community Health Sciences, Los Angeles, California (e-mail: dmorisky@ucla.edu)
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