

## CURRICULUM VITAE

### PERSONAL INFORMATION

**Name:** Moh'd (Mohammed) Zohair Moh'd Allouh

**Place of Birth:** Irbid / Jordan

**Contact Information:** Tel: +962 790120812  
E-mail: m\_allouh@just.edu.jo  
Skype: mohammedallouh

### EDUCATION

- High School Certificate, Science Division (1995)  
Jordanian Ministry of Education
- Degree of Dental Surgery, D.D.S. (2000)  
Jordan University of Science & Technology (JUST)
- Ph.D. Anatomy and Cell Biology (2007)  
University of Saskatchewan / Canada  
Thesis Title: "Satellite cell and myonuclear distribution within normal and hypertrophic models of skeletal muscle growth, and the expression of myogenic regulatory factors during growth"

### CERTIFICATION AND LICENSURE

- Jordanian Ministry of Health license for Practicing Dental Profession, 2000
- Certificate in Educational Testing and Evaluation, 2007
- Certificate in Modern University Instructional Methods, 2010

### TRAINING COURSES & WORKSHOPS

- 7<sup>th</sup> Myograd Summer School for Myology, Basic Muscle Sciences, Max Delbrück Center for Molecular Medicine, Berlin, Germany, 2016
- Development of Curriculum and Study Plans, Academic Development and Quality Assurance Center, JUST, Jordan, 2014
- E-learning, Academic Development and Quality Assurance Center, JUST, Jordan, 2014
- Training Course in Problem Based Learning Method, WHO and University of Jordan, 2011
- Leadership in Administration Training Course, Consultative center for Science & Technology, 2011
- Standardized Methods of Teaching & Assessment in Clinical Settings, University of Illinois at Chicago, 2010

## **ACADEMIC APPOINTMENTS**

- Full Professor (October, 2017), JUST
- Associate Professor (October, 2012), JUST
- Assistant Professor (October, 2007), JUST
- Lecturer (August, 2007), JUST

## **ADMINISTRATIVE EXPERIENCES**

- Vice Dean for Basic Medical Sciences, Faculty of Medicine, JUST (2013/14, 2015/16)
- Assistant Dean for Basic Medical Sciences, Faculty of Medicine, JUST (2010/11, 2011/12, 2012/13)
- Member in the Animal Care Unit Committee (ACUC) at JUST (2011/12, 2014/15)
- Member in the college of medicine council at JUST (2008 – 2016)
- Member in the accreditation committee for the college of medicine at JUST (2009/2010)
- Member in the curricular and instructional design committee of the college of medicine at JUST (2015/2016, 2016/2017)
- Member in the Registration committee at JUST (2016/2017)
- Member in the courses accreditation committee in the college of medicine at JUST (2013/14, 2015/16)
- Member in the graduate studies committee in the college of medicine at JUST (2015/16)

## **SCIENTIFIC ORGANIZATION MEMBERSHIPS**

- The Science Advisory Board (2017 – until now, vetted community)
- American Association of Anatomists (2011 – until now)
- Society for Experimental Biology and Medicine (2011 – until now)

## **HONORS AND AWARDS**

- Erasmus+ KA107 Teaching Mobility Award, University of Minho, Braga, Portugal, February-2018.
- Erasmus+ KA107 Teaching Mobility Award, the Universidade de Santiago de Compostela, Santiago Campus, Spain, April-2017.
- C. P. Leblond Award, Canadian Association for Anatomy, Neurobiology and Cell Biology (CAANCB), Canadian Federation of Biological Societies (CFBS), Saskatoon, SK. June/2006.
- American Association of Anatomists best poster presentation award, Federation of American Societies for Experimental Biology 2006, San Francisco, April/2006.

- Second place award in developmental biology theme for The 13<sup>th</sup> Annual Life Sciences Research Conference, University of Saskatchewan March/2006.
- First place award in developmental biology theme for The Eleventh Annual Life Sciences Research Conference, University of Saskatchewan May/2004.

## **RESEARCH INTERESTS**

- Influence of different chemical compounds and novel herbal extracts on postnatal skeletal muscle growth, repair and regeneration through myogenic satellite cell activation.
- Assessment of different neurosurgical techniques to improve operative outcomes and evaluation of challenging neurological/neurosurgical conditions with their associated risk factors.
- Anatomical and morphological characteristics of certain body structures and their variations among different ethnicities and populations.

## **FUNDING RECEIVED**

### **Principal Investigator**

- Effects of Sustanon on the Expression of Myogenic Regulatory Factors within Avian Skeletal Muscle Fibers. 8/2016-10/2017
- Morphology of Corpus Callosum in Jordanians with Relation to Age, Sex and Handedness. 10/2015-10/2016
- Effects of Anabolic steroids on fiber morphology, satellite cell distribution, and pax7 expression in adult avian skeletal muscle. A dose related study. 10/2015-10/2016
- Evaluation of the Incidence of Glioblastoma with Relation to ABO Blood Groups in Jordanians. 07/2015-01/2016
- Evaluation of the Effects of High Fat Diet on Fiber Morphology and Satellite Cell Distribution within Murine Skeletal Muscle. 07/2015-12/2016
- Effects of Mesterolone in inducing skeletal muscle hyperplasia and hypertrophy. A dose related study, 11/2014-11/2015.
- Effects of Sustanon on the formation of new fibers and the expression of Myostatin within the skeletal muscle, 10/2014-04/2017.

- Does swimming exercise affect the sexual function? An investigative study on the effects of different swimming regimens on male rat sexual behavior, 09/2012-06/2013.
- Evaluation of the effects of *Allium cepa* on the sexual behavior of adult male rats, 02/2012-02/2013.
- Influence of Sustanon and Mesterolone on the frequency of adult stem cells, myonuclear density and fiber size within the skeletal muscle, 02/2010-12/2012.
- Study of the carrying angle of the human elbow joint with correlation to various body parameters, 08/2009-08/2011.
- The effects of *Orchis anatolica* and *Ferula hermonis* on the distribution of skeletal muscle stem cells and the morphology of skeletal muscle fibers in adult rodent animals, 02/2009-02/2011.

#### **JOURNAL EDITORIAL MEMBERSHIPS**

- **Canadian Journal of Biomedical Sciences**, ISSN: 2520-5951, Consortium Publisher, 6508 Winston Churchil Blvd, Mississauga, Ontario, L5N 3W4, **Canada**, e-mail: [office@consortiumpublisher.ca](mailto:office@consortiumpublisher.ca)
- **Austin Journal of Anatomy**, ISSN: 2381-8921, Austin Publications LLC, Harborside Financial Center, Jersey City, New Jersey, 07311, **USA**, website: <http://austinpublishinggroup.com/anatomy/index.php>
- **Histology and Histopathology Research**, Pulsus Group, 40 Bloomsbury Way, London, WC1A 2SE, **United Kingdom**, e-mail: [histology@clinicalmedicaljournals.com](mailto:histology@clinicalmedicaljournals.com), qwebsite: <https://www.pulsus.com/histology-histopathology-research.html>
- **Austin Cell Biology**, Austin Publishing Group, New Jersey 08831, **USA**, e-mail: [cellbiology@austinpublishinggroup.com](mailto:cellbiology@austinpublishinggroup.com)
- **International Journal of Anatomy & Applied Physiology (IJAAP)**, SciDoc Publishers, 16192 Coastal Highway, Lewes, Delaware 19958, **USA**, Email: [contact.scidoc@scidoc.org](mailto:contact.scidoc@scidoc.org), website: <http://scidoc.org/anatomy-applied-physiology.php>
- **Journal of Case Reports and Imaging**, Henry Publishing Group, Glanmire, Cork, **Republic of Ireland**, website: <http://www.henrypublishinggroups.com/henry-journal-of-case-reports-imaging/>

## **PUBLICATIONS**

### **Published Abstracts**

- Abushamma F, Alazab R, **Allouh M**, Abu Shamleh R (2017). Testicular histopathology as a predictor of sperm retrieval, quality of sperm and ICSI outcome in patients with nonobstructive azoospermia: In addition to correlation to FSH as a strong non- invasive and independent predictor. *European Urology Supplements* 16(13): e3001-e3004.
- **Allouh MZ** and Aldirawi MH (2013). Sustanon administration induces satellite cell proliferation and giant fiber formation in growing skeletal muscle without exercise. *The FASEB Journal* 27:524.2
- **Allouh MZ** and Aldirawi MH (2012). Effects of mesterolone on satellite cell distribution and myonuclear number in maturing skeletal muscle fibers. *The FASEB Journal* 26: 914.5
- **Allouh MZ** (2011). *Ferula hermonis* root extract increases fiber size and myonuclear number within tibialis anterior muscle of exercised rats. Federation of American Societies for Experimental Biology (FASEB). *The FASEB Journal* 25: 874.4
- **Allouh MZ** and Rosser BWC (2007). The effects of Nandrolone Decanoate on the frequency and concentration of satellite cells in skeletal muscle. Federation of American Societies for Experimental Biology (FASEB). *The FASEB Journal* 21: A203, 439.7
- **Allouh MZ** and Rosser BWC (2006). Greater frequency and concentration of satellite cells at the ends of developing skeletal muscle fibers. *The FASEB Journal* 20 (4): A29, 61.2

### **Book Chapter**

- Al Barbarawi MA, **Allouh MZ**, Qudsieh SM (2012). Neuronal and Mixed Neuronal-Glial Tumors of the Central Nervous System. In: Histopathology-Reviews and Recent Advances, Enrique Poblet Martinez (Ed.), ISBN: 978-953-51-0866-5, InTechOpen Book Publisher, Available from:  
<http://www.intechopen.com/books/histopathology-reviews-and-recent-advances/neuronal-and-mixed-neuronal-glial-tumors-of-the-central-nervous-system>

## **Peer Reviewed Articles (\*corresponding author)**

### Histology and Experimental Biology

- Asfour Ha, **Allouh MZ\***, Said RS (2018). Myogenic regulatory factors: the orchestrators of myogenesis after thirty years of discovery. *Experimental Biology and Medicine*, doi: 10.1177/1535370217749494
- **Allouh MZ\***, Jarrar AA, Asfour HA, Said RS, Shaqoura EI (2017). Sustanon induces dose-independent hypertrophy and satellite cell proliferation in slow oxidative fibers of avian skeletal muscle. *Histology and Histopathology* 11871, doi: 10.14670/HH-11-871
- **Allouh MZ\***, Said RS (2015). Influence of *Ferula hermonis* acetonetic extract on exercise adapted rat gastrocnemius. *Austin Cell Biology* 1(1): 1003
- Mustafa AG, Bani-Ahmad MA, Jaradat AQ, **Allouh MZ\*** (2015). Tempol protects blood proteins and lipids against peroxynitrite-mediated oxidative damage. *Experimental Biology and Medicine* 240(1):109-112, doi: 10.1177/1535370214546291
- **Allouh MZ\***, Aldirawi MH (2012). Effects of sustanon on the distribution of satellite cells and the morphology of skeletal muscle fibers during maturation. *Pakistan Journal of Biological Sciences* 15(5): 215-223
- **Allouh MZ\***, Aldirawi MH (2012). Influence of mesterolone on satellite cell distribution and fiber morphology within maturing chicken pectoralis muscle. *The Anatomical Record* 295(5): 792-799
- **Allouh MZ\*** (2011). Effect of *Ferula hermonis* root extract on rat skeletal muscle adaptation to exercise. *Experimental Biology and Medicine* 236(12): 1373-1378
- Kaddumi EG, Qnais EY, **Allouh MZ** (2011). Effect of esophagus distention on urinary bladder function in rats. *Neurourology and Urodynamics* 31(1): 174-177
- **Allouh MZ\***, Allouh ZM (2010). Intralobular distribution of CYP1A2 within rat liver during postnatal growth. *Jordan Medical Journal* 44(3): 353-360
- **Allouh MZ**, Rosser B (2010). Nandrolone decanoate increases satellite cell numbers in skeletal muscle. *Histology and Histopathology* 25(2): 133-140
- Kirkpatrick LJ, **Allouh MZ**, Nightingale CN, Devon HG, Yablonka-Reuveni Z, and Rosser B (2008). Pax7 Shows Higher Satellite Cell Frequencies and Concentrations within Intrafusal Fibers of Muscle Spindles. *Journal of Histochemistry & Cytochemistry* 56(9): 831-840

- **Allouh MZ**, Yablonka-Reuveni Z, Rosser B (2008). Pax7 reveals a greater frequency and concentration of satellite cells at the ends of growing skeletal muscle fibers. *Journal of Histochemistry & Cytochemistry* 56(1): 77-87
- Alcorn J, ElBarbry F, **Allouh MZ**, McNamara P (2007). Evaluation of the Assumptions of an Ontogeny Model of Rat Hepatic Cytochrome P450 Activity. *Drug Metabolism and Disposition* 35(12): 2225-2231
- Halevy O, Piestun Y, **Allouh MZ**, Rosser B, Rinkevich Y, Reshef R, Rozenboim I, Wleklinski M and Yablonka-Reuveni Z\* (2004). The pattern of Pax7 expression during myogenesis in the post-hatch chicken establishes a model for satellite cell differentiation and renewal. *Developmental Dynamics* 231(3): 489-502

#### Clinical Neurosciences

- **Allouh MZ\***, Al Barbarawi MM, Hiasat MH, Abuzayed BA (2017). Migration of the distal catheter of the ventriculoperitoneal shunt in hydrocephalus patients: case report and literature review. *Neurosciences* 22:298-302, doi: 10.17712/nsj.2017.4.20170137.
- Khraise WN, **Allouh MZ**, El-Radaideh KM, Said RS, Al-Rusan AM (2017). Assessment of postdural puncture headache risk factors in women undergoing cesarean delivery in Jordan: a retrospective analytical study. *Local and Regional Anesthesia* 10:9-13, doi: 10.2147/LRA.S129811
- Khraise WN, **Allouh MZ**, Hiasat MY, Said RS (2016). Successful Management of Intraoperative Acute Bilateral Pulmonary Embolism in a High Grade Astrocytoma Patient. *American Journal of Case Reports* 17:632-636
- **Allouh MZ\***, Al Barbarawi MM, Hiasat MY, Garalih M, Ababneh E (2016). Glioblastoma and ABO blood groups: further evidence of an association between the distribution of blood group antigens and brain tumors. *Blood Transfusion* 30: 1-5, doi: 10.2450/2016.0041-16
- Al Barbarawi MM, Audat ZM, **Allouh MZ** (2015). Analytical comparison study of the clinical and radiological outcome of spine fixation using posterolateral, posterior lumbar interbody and transforaminal lumbar interbody spinal fixation techniques to treat lumbar spine degenerative disc disease. *Scoliosis* 10:17, doi: 10.1186/s13013-015-0040-0
- Al Barbarawi MM, **Allouh MZ** (2015). Cervical lateral mass screw-rod fixation: surgical experience with 2500 consecutive screws, an analytical review, and long-term outcomes. *British Journal of Neurosurgery* 29(5):699-704. doi: 10.3109/02688697.2015.1026798

- Al Barbarawi MM, **Allouh MZ** (2015). Successful management of a unique condition of isolated intracranial mucormycosis in an immunocompetent child. *Pediatric Neurosurgery* 50(3):165-167, doi: 10.1159/000381750
- Al Barbarawi MM, Hayajneh WA, Hiasat MY, **Allouh MZ\*** (2014). Utilization of multidisciplinary surgical techniques to successfully manage 20 brain abscesses in a child. *Child's Nervous System* 30(7): 1255-1260, doi: 10.1007/s00381-014-2393-8

#### Gross Anatomy and Morphology

- **Allouh MZ\***, Ali HA, Mustafa AG, Al Barbarawi MM (Submitted). Morphometric analysis of corpus callosum in a Middle Eastern population with respect to age and sex: a magnetic resonance imaging study. *Surgical and Radiologic Anatomy*, Manuscript ID: SARA-D-17-00663
- Mustafa AG, Abu Ghaida JH, Mistareehi AJ, **Allouh MZ**, Mistarihi SM (Accepted May, 2017). A cephalometric morphometric study of age- and gender-dependent shape patterns of the sella turcica. *Italian Journal of Anatomy and Embryology*
- **Allouh MZ\***, Al Barbarawi MM, Asfour HA, Said RS (2017). Migration of the distal catheter of the ventriculoperitoneal shunt in hydrocephalus: a comprehensive analytical review from an anatomical perspective. *Clinical Anatomy* 30:821-830, doi: 10.1002/ca.22928
- Saqan RS, Alazab RS, **Allouh MZ** (2017). A case of compartment syndrome in the scrotum and inguinal area complicating idiopathic nephrotic syndrome of childhood. *Urology Case Reports* 15:5-7, doi: 10.1016/j.eucr.2017.07.005
- Mustafa AG, **Allouh MZ**, Ghaida JH, Al-Omari MH, Mahmoud WA (2017). Branching patterns of the aortic arch: a computed tomography angiography-based study. *Surgical and Radiologic Anatomy* 39:235-242, doi:10.1007/s00276-016-1720-z
- **Allouh MZ\***, Abu Ghaida JH, Jarrar AA, Khasawneh RR, Mustafa AG, Bashaireh KM (2016). The carrying angle: racial differences and relevance to inter-epicondylar distance of the humerus. *Folia Morphologica (Warsz)* 75(3):388-392, doi: 10.5603/FM.a2016.0007
- Mustafa AG, **Allouh MZ**, Alshehab RM (2015). Morphological changes in palatal rugae patterns following orthodontic treatment. *Journal of Forensic and Legal Medicine* 31:19-22, doi: 10.1016/j.jflm.2015.01.002
- **Allouh MZ\***, Khasawneh RR (2014). Measurement of the carrying angle in Jordanians with respect to different body parameters. *Jordan Medical Journal* 48(2): 93-101



- Mustafa AG, **Allouh MZ**, Tarawneh I, Alrbata R (2014). Morphometric analysis of palatal rugae among Jordanians: further evidence of worldwide palatal rugae individuality. *Australian Journal of Forensic Sciences* 46(1): 53-63
- Mustafa AG, **Allouh MZ**, Mustafa IG, Hoja IM (2013). Anatomy learning styles and strategies among Jordanian and Malaysian medical students: The impact of culture on learning anatomy. *Surgical and Radiologic Anatomy* 35(5): 435-441
- **Allouh M\***, Mohamed A, Mhanni E (2004). Complete unilateral absence of trapezius muscle. *McGill Journal of Medicine* 8(1): 31-33

#### Copulatory Behavior and Fertility

- **Allouh MZ\***, Daradka HM, Abu Ghaida JH (2015). Influence of *Cyperus esculentus* tubers (tiger nut) on male rat copulatory behavior. *BMC Complementary and Alternative Medicine* 15:331, doi: 10.1186/s12906-015-0851-9
- **Allouh MZ\*** (2015). Effects of swimming activity on the copulatory behavior of sexually active male rats. *International Journal of Impotence Research* 27(3):113-117, doi: 10.1038/ijir.2014.42
- Khouri NA, Daradka HM, **Allouh MZ**, Alkofahi AS (2015). Comparative effects of *Orchis anatolica* vs. the red Korean *Panax ginseng* treatments on testicular structure and function of adult male mice. *Journal of Complementary & Integrative Medicine* 12(1):33-41, doi: 10.1515/jcim-2012-0035
- **Allouh MZ\***, Daradka HM, Al Barbarawi MM, Mustafa AG (2014). Fresh onion juice enhanced copulatory behavior in male rats with and without paroxetine-induced sexual dysfunction. *Experimental Biology and Medicine* 239(2):177-182.
- **Allouh MZ\***, Khouri NA, Daradka HM, Kaddumi EK (2010). *Orchis anatolica* root ingestion improves sexual motivation and performance in male rat. *Journal of Complementary & Integrative Medicine* vol. 7: iss. 1, Article 39. <http://www.bepress.com/jcim/vol7/iss1/39>

#### **SCIENTIFIC CONFERENCE PRESENTATIONS**

- **Mohammed Z. Allouh** (2015) Effects of anabolic steroids on the morphology of muscle fibers and the distribution of stem cells in maturing skeletal muscle tissue. 7<sup>th</sup> International Symposium of Clinical and Applied Anatomy (ISCAA), Bratislava, Slovakia

- Mohammed Albarbarawi, **Mohammed Z. Allouh**, Mounes Obeidat, Amer Jaradat, Tariq Harb, Hosam Abo Khedair (2014) Cervical lateral mass screw-rod fixation: surgical experience with 2500 consecutive screws, an analytical review and long-term outcomes. The 1<sup>st</sup> Jordanian-Australian Neurosurgical Conference, Irbid, Jordan
- **Mohammed Z. Allouh** (2014) Measurement of the carrying angle in a Middle Eastern population with respect to different body parameters. 6<sup>th</sup> International Symposium of Clinical and Applied Anatomy (ISCAA), Rijeka, Croatia
- **Mohammed Z. Allouh** and Mohammed H. Aldirawi (2013) Sustanon administration induces satellite cell proliferation and giant fiber formation in growing skeletal muscle without exercise. Experimental Biology 2013, Boston, USA
- **Mohammed Z. Allouh** and Mohammed H. Aldirawi (2012) Effects of Mesterolone on satellite cell distribution and myonuclear number in maturing skeletal muscle fibers. Experimental Biology 2012, San Diego, USA
- **Mohammed Z. Allouh** (2011) *Ferula hermonis* root extract increases fiber size and myonuclear number within tibialis anterior muscle of exercised rats. Experimental Biology 2011, Washington DC, USA
- **Mohammed Z. Allouh** (2007). The effects of Nandrolone Decanoate on the frequency and concentration of satellite cells in skeletal muscle. Experimental Biology 2007, Washington DC, USA
- **Mohammed Z. Allouh** (2006). Dividing to keep muscle together: satellite cells identification and distribution in developing skeletal muscle fibers. Canadian Federation of Biological Societies (CFBS), Saskatoon, Canada
- **Mohammed Z. Allouh** and Benjamin W.C. Rosser (2006). Expression patterns of MyoD and Myogenin in satellite cells and myonuclei during development of skeletal muscle. Canadian Federation of Biological Societies, Saskatoon, Canada.
- Rachana Bodani, **Mohammed Z. Allouh** and Benjamin Rosser (2006). Satellite cell numbers and myonuclear domains in fast-twitch fiber types of developing pigeon pectoralis muscle. Canadian Federation of Biological Societies, Saskatoon, Canada.
- Benjamin W.C. Rosser, **Mohammed Z. Allouh** and Zipora Yablonka-Reuveni (2006). Satellite cells are more numerous at the ends of developing muscle fibers. Frontiers in Myogenesis, Georgia, USA.

- **Mohammed Z. Allouh** and Benjamin W.C. Rosser (2006). Greater frequency and concentration of satellite cells at the ends of developing skeletal muscle fibers. Experimental Biology 2006, San Francisco, USA.
- **Mohammed Z. Allouh** and Benjamin W.C. Rosser (2006). Satellite cells: a specific population of skeletal muscle stem cells responsible for postnatal growth and regeneration. The 13<sup>th</sup> Annual Life Sciences Research Conference, University of Saskatchewan, Saskatoon.
- **Mohammed Z. Allouh** and Benjamin W.C. Rosser (2004). Satellite cell distribution along the length of developing muscle fibers. The 11<sup>th</sup> Annual Life Sciences Research Conference, University of Saskatchewan, Saskatoon.

### **GRADUATE STUDENTS SUPERVISED**

- Hasan A. Asfour  
 Previous degree: Medical Degree (MD), Al-Quds University  
 Requested degree: MSc in Anatomy (sponsored by DAAD, Germany)  
 Thesis Title: Effects of Sustanon on the expression of myogenic regulatory factors within avian skeletal muscle fibers  
 Start date: September, 2015  
 Defense date: August, 2017
- Heba A. Ali  
 Previous degree: Degree of Dental Surgery (DDS), Jordan University of Science & Technology  
 Acquired degree: MSc in Anatomy  
 Thesis Title: Evaluation of the morphology of corpus callosum in Jordanians with relation to age, sex, and handedness.  
 Defense date: January, 2017
- Mohammed Y. Alnajjar  
 Previous degree: Medical Degree (MD), Islamic University - Gaza  
 Acquired degree: MSc in Physiology  
 Thesis Title: Evaluation of the effects of high fat diet on fiber morphology and myonuclear distribution within murine skeletal muscle.  
 Defense date: November, 2016
- Raed S. Said  
 Previous degree: Degree of Dental Surgery (DDS), University of Jordan  
 Acquired degree: MSc in Anatomy  
 Thesis Title: Effects of anabolic steroids on fiber morphology, satellite cell distribution, and pax7 expression in adult avian skeletal muscle. A dose related study.  
 Defense date: November, 2016

- Emad I. Shaqoura  
Previous degree: Medical Degree (MD), Islamic University - Gaza  
Acquired degree: MSc in Anatomy (sponsored by DAAD, Germany)  
Thesis Title: Effects of Mesterolone on inducing skeletal muscle hyperplasia and hypertrophy. A dose related study.  
Defense date: August, 2015
- Mohammed H. Aldirawi  
Previous degree: Medical Degree (MD), Jordan University of Science & Technology  
Acquired degree: MSc in Anatomy (sponsored by DAAD, Germany)  
Thesis Title: Influence of Sustanon and Mesterolone on the frequency of adult stem cells, myonuclear density and fiber size within the skeletal muscle.  
Defense date: April, 2011
- Ramada R. Khasawneh  
Previous degree: BSc in radiology, Jordan University of Science & Technology  
Acquired degree: MSc in Anatomy  
Thesis Title: Study of the carrying angle of the human elbow joint with correlation to various body parameters.  
Defense date: January, 2010

#### **GRADUATE STUDENTS CO-SUPERVISED**

- Heba Abu Samra  
Previous degree: BSc in Allied Medical Sciences, JUST  
Acquired degree: MSc in Toxicology & Forensic Sciences  
Thesis Title: A Study of the Orbital Index in Jordanians Using Computed Tomography Scan  
Start date: January, 2017  
Defense date: August, 2017
- Aysar Tashtoosh  
Previous degree: DDS, Jordan University of Science & Technology  
Acquired degree: MSc in Anatomy  
Thesis Title: Morphometric study of the palate in the Jordanian population  
Defense date: May, 2017
- Rawan Alshehab  
Previous degree: DDS, Jordan University of Science & Technology  
Acquired degree: MSc in Toxicology & Forensic Sciences  
Thesis Title: The morphometric changes inflicted on palatal rugae during orthodontic treatment and their relevance to individual identification  
Defense date: June, 2014

- Islam A. Altarawneh  
Previous degree: BSc in Allied Medical Sciences, JUST  
Acquired degree: MSc in Anatomy  
Thesis Title: Morphometric study of palatal rugae patterns in the Jordanian population  
Defense date: July, 2012
- Areej Alshomaly  
Previous degree: BSc in Information Technology, JUST  
Acquired degree: MSc in Information Technology  
Thesis Title: Virtual reality in surgical education  
Defense date: December, 2012

### **TEACHING EXPERIENCES**

- **September, 2007 – Until now**  
**Department of Anatomy, Jordan University of Science & Technology**

<b>University</b>	<b>Course Title &amp; (Number)</b>	<b>Specialty</b>	<b>Dates</b>
JUST	General Anatomy & Embryology (MED 112)	Medicine	2008 – 2010 2013 – until now
JUST	Cell Biology & Histology (MED 114)	Medicine	2009 - 2010
JUST	Digestive System Module (MED 311)	Medicine	2012 – until now
JUST	Endocrine System Module (321)	Medicine	2014 - 2016
JUST	Musculoskeletal System Module (MED 331)	Medicine	2007 - 2010
JUST	Neuroscience Module (MED 322)	Medicine	2013-2015
JUST	Urinary & Reproductive System Module (MED 352)	Medicine	2015 – until now
JUST	General Anatomy & Embryology (MED 215)	Dentistry	2007 - 2012
JUST	Head & Neck Anatomy (MED 217)	Dentistry	2007 - 2012
JUST	Head & Neck Anatomy (MED 219)	Dental Technology	2007 – 2012 Summer 2017
JUST	Anatomy for Nursing Students (MED 130)	Nursing	2015
JUST	Anatomy & Histology for Applied Medical Sciences (MED 218)	Applied medical sciences	Summer 2015 Summer 2016

JUST	Neuroscience 1 (MED 226)	physiotherapy	2013 - 2014
JUST	Advanced Clinical Anatomy (MED 714)	MSc Anatomy	2014 – until now
JUST	Modern Anatomical and Histological Techniques (MED 718)	MSc Anatomy	2014 – until now
Al al-Bayt	Human Anatomy & Histology (1001110)	Nursing	Summer 2010
Mutah	Musculoskeletal System (1500202)	Medicine	2014
Mutah	Digestive System (1500203)	Medicine	2014
Mutah	Endocrine System (1500204)	Medicine	2014
USC/ Spain	Clinical & Surgical Anatomy of the Abdominal Region	Medicine	April, 2017
UMinho/Portugal	Gross and Clinical Anatomy of the Trunk Musculature	Medicine	February, 2018

- **September, 2003 – May, 2007**  
**Department of Anatomy & Cell Biology, University of Saskatchewan**

**Teaching Assistant**

- Clinical Anatomy for Medical and Dental Students
  - Gross Anatomy for Kinesiology Students
  - Cell Biology & Histology for Medical and Dental students
-