

## JIBRAN SUALEH MUHAMMAD

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### PROFESSIONAL EXPERIENCE

- Assistant Professor (Anatomy)** (08/2017 to present)\*  
Department of Basic Medical Sciences, College of Medicine,  
University of Sharjah, United Arab Emirates
- Assistant Professor (Anatomy)** (10/2016 to 08/2017)  
Department of Biological and Biomedical Sciences, Medical College,  
The Aga Khan University, Karachi, Pakistan
- Research Fellow,** (08/2012 to 09/2016)  
Department of Gastroenterology,  
Faculty of Medicine, University of Toyama, Toyama, Japan
- Instructor (Anatomy)** (08/2011 to 08/2012)  
Department of Biological and Biomedical Sciences, Medical College  
Faculty of Health Sciences, The Aga Khan University, Karachi, Pakistan
- Teaching Assistant (Anatomy)** (10/2010 to 07/2011)  
Department of Biological and Biomedical Sciences, Medical College  
Faculty of Health Sciences, The Aga Khan University, Karachi, Pakistan
- Research Associate,** (03/2010 to 09/2010)  
Department of Internal Medicine, Jinnah Medical College Hospital, Karachi, Pakistan

### EDUCATION

- Doctor of Philosophy (Ph.D.) (Medical Life Sciences)** (06/2016)  
Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, Japan
- M.B.B.S, (Bachelor of Medicine, Bachelor of Surgery)** (09/2010)  
Jinnah Medical and Dental College, University of Karachi, Pakistan

### AWARDS AND SCHOLARSHIPS

- National Scholar Award** (10/2017)  
United European Gastroenterology (UEG) Scientific Committee, Austria
- Sasaki Award for Excellence in Research** (11/2016)  
Faculty of Medicine, University of Toyama, Toyama, Japan
- Young Investigator's Award (YIA),** (28/06/2014)  
The Annual Meeting of the Japanese Society for Helicobacter Research, Tokyo, Japan
- Rotary Yoneyama Memorial Doctoral Course Scholarship (YD),** (04/2015 to 09/2016)  
Sponsored by Rotary Yoneyama Memorial Foundation, Rotary International, Japan
- Toyama Prefectural International Exchange Scholarship (TIES),** (06/2014 to 05/2015)  
Sponsored by Toyama International Center, Toyama Prefectural Government, Toyama, Japan

## **PUBLICATIONS** [Total impact factor: 31.692]

### **Original article publications**

1. **Muhammad JS**, Zaidi SF, Saeed SA, Ishaq M. Current status of *Helicobacter pylori* association with hematological and cardiovascular diseases: A mini review. J Pak Med Assoc. 2017 Jun;67(6):907-911. [Impact Factor: 0.488]
2. **Muhammad JS**, Nanjo S, Ando T, Yamashita S, Maekita T, Ichinose M, Ushijima T, Tabuchi Y, Sugiyama T. Autophagy impairment by *Helicobacter pylori*-induced methylation silencing of *MAP1LC3A1* causes gastric carcinogenesis. Int J Cancer. 2017 Feb 18. Doi:10.1002/ijc.30657 [Impact factor: 5.531]
3. Mihara H, Suzuki N, **Muhammad JS**, Nanjo S, Ando T, Fujinami H, Kajiura S, Hosokawa A, Sugiyama T. Transient receptor potential vanilloid 4 (TRPV4) silencing in *Helicobacter pylori*-infected human gastric epithelium. Helicobacter. 2016 Sep 30. doi: 10.1111/hel.12361 [Impact factor: 3.920]
4. Mihara H, Suzuki N, Boudaka A, **Muhammad JS**, Tominaga M, Tabuchi Y, Sugiyama Y. TRPV4-dependent calcium influx and ATP release in mouse and rat gastric epithelia. World J Gastroenterol. 2016 Jun 28; 22(24):5512-9. [PMID: 27350729] [Impact Factor: 2.787]
5. **Muhammad JS**, Zaidi SF, Zhou Y, Sakurai H, Sugiyama T. Novel epidermal growth factor receptor pathway mediates release of human  $\beta$ -defensin 3 from *Helicobacter pylori*-infected gastric epithelial cells. Pathog Dis. 2016; 74(3). pii: ftv128. [PMID: 26733497] [Impact Factor: 2.483] [1 Citation]
6. Zaidi SF, Refaat A, Zhou Y, **Sualeh Muhammad J**, Shin MS, Saiki I, Sakurai H, Sugiyama T. Helicobacter pylori Induces Serine Phosphorylation of EGFR via Novel TAK1-p38 Activation Pathway in an HB-EGF-Independent Manner. Helicobacter. 2015; 20(5):381-9. [PMID: 25704183] [Impact Factor: 3.920] [3 Citations]
7. **Muhammad JS**, Zaidi SF, Shaharyar S, Refaat A, Usmanghani K, Saiki I, Sugiyama T. Anti-inflammatory Effect of Cinnamaldehyde in Helicobacter pylori Induced Gastric Inflammation. Biol Pharm Bull. 2015; 38(1):109-15. [PMID: 25744466] [Impact Factor: 1.574] [4 Citations]
8. Ishaq M, **Muhammad JS**, Hameed K. Risk of restless leg syndrome in low socioeconomic rheumatoid arthritis. Mod Rheumatol. 2013; 23(4):705-8. [PMID: 22797949] [Impact Factor: 1.843] [3 Citations]
9. Zaidi SF, **Muhammad JS**, Shaharyar S, Usmanghani K, Gilani AH, Jafri W, Sugiyama T. Anti-inflammatory and cytoprotective effects of selected Pakistani medicinal plants in Helicobacter pylori-infected gastric epithelial cells. J Ethnopharmacol. 2012; 141(1); 403-10. [PMID: 22433535] [Impact Factor: 3.055] [22 Citations]
10. Ishaq M, **Muhammad JS**, Hameed K, Mirza AI. Leflunomide or methotrexate? Comparison of clinical efficacy and safety in low socio-economic rheumatoid arthritis patients. Mod Rheumatol. 2011; 21(4):375-380. [PMID: 21229373] [Impact Factor: 1.843] [15 Citations]
11. Ishaq M, **Muhammad JS**, Mahmood K. Uveitis, not just an ophthalmologist concern: need multidisciplinary approach. J Pak Med Assoc. 2012; 62(2): 92-97. [PMID: 22755365] [Impact Factor: 0.488] [1 Citations]
12. Naqvi SA, Ishaq M, Haider Q, **Mohammad JS**. Tremors and Its Determinants: A 7 year study at secondary care hospital. J Pak Med Assoc. 2011; 61(9): 896-900. [PMID: 22360032] [Impact Factor: 0.488]
13. Ishaq M, **Mohammad JS**, Naqvi SA, Shaikh MI. Adult Onset Still's Disease with Autoimmune Haemolytic Anaemia: Two rarities in combination. J Pak Med Assoc. 2011; 61(12): 1239-1241. [PMID: 22355977] [Impact Factor: 0.488]
14. Sohani ZN, **Mohammad JS**. Psychological Stress in an Urban Squatter Settlement. J Pak Med Assoc. 2009; 59(2):126. [PMID: 19260586] [Impact Factor: 0.488]

### **Invited review articles, Non-indexed publications, Editorials and Book chapter**

1. **Muhammad JS**, Zaidi SF, Ishaq M. Ins and outs of *Helicobacter pylori* association with autoimmune rheumatic diseases. World J Rheumatol 2015; 5(2): 96-100.
2. Zaidi SF, Aziz M, **Muhammad JS**, Kadowaki M. Diverse pharmacological properties of *Cinnamomum cassia*: A review. Pak J Pharm Sci. 2015; 28(4): 1433-48. [PMID: 26142534] [Impact Factor: 0.581] [2 Citations]
3. Zaidi SF, **Muhammad JS**, Usmanghani K, Sugiyama T. Pharmacological ins and outs of medicinal plants against *Helicobacter pylori*: A review. Pak J Pharm Sci. 2015; 28(3) suppl: 1171-76. [PMID: 26051742] [Impact Factor: 0.581]
4. **Muhammad JS**, Zaidi SF, Usmanghani K. Epidemiological and Pathophysiological Review of *Helicobacter pylori*. J Pharmacy and Pharmaceutical Sci. 2014; 2(2):45-55.

5. **Muhammad JS**, Sugiyama T, Zaidi SF. Gastric Pathophysiological ins and outs of *Helicobacter pylori*: A review. J Pak Med Assoc. 2013; 63(12): 1528-33. [PMID: 24397100] [Impact Factor: 0.488] [11 Citations]
6. **Muhammad JS**, Zaidi SF, Sugiyama T. Epidemiological ins and outs of *Helicobacter pylori*: A review. J Pak Med Assoc. 2012; 62(9): 955-959. [PMID: 23139983] [Impact Factor: 0.488] [19 Citations]
7. Brohi H, Kumar A, Ishaq M, Ali SS, **Mohammad JS**. Knowledge Attitude and Practice of General Physician in Treatment of Headaches in Karachi. Ann Abbasi Shaheed Hosp Karachi Med Dent Coll. 2010; 15(2):117-120.
8. Khan Z, Kumar A, Ishaq M, **Mohammad JS**. Diabetic Autonomic Neuropathy: Frequent Life Disabling Complication of Diabetes Mellitus in Low Socioeconomic Group. Ann Abbasi Shaheed Hosp Karachi Med Dent Coll. 2010; 15(1):46-53.
9. Naqvi SA, Ishaq M, Ilyas MS, Haider Q, Siddiqui A, Hasnain T, **Mohammad JS**. Tremors; Myths and Misconceptions; A 7-year clinical survey 2002-2009. Ann Abbasi Shaheed Hosp Karachi Med Dent Coll. 2010; 15(1):63-69.
10. **Muhammad JS**. Host versus *Helicobacter pylori*: Insights into Novel Host-Immune Response Mechanism. J Pioneer Med Sci. 2016; 6(2): 46-47. [Editorial]
11. **Muhammad JS**. Developing a new scoring system for diagnosis of acute appendicitis. J Pioneer Med Sci . 2011; 1(2): 63-64. [Editorial]
12. Ishaq M, **Muhammad JS**, Hammed K (2011). "Pulmonary Hypertension in Systemic Sclerosis". In: Pulmonary Hypertension – From Bench Research to Clinical Challenges. Sulica R & Preston I. Intech, Croatia. ISBN 978-953-307-835-9. [Book Chapter]

#### **FEATURED INTERNATIONAL PRESENTATIONS**

1. **Muhammad JS**. "Potent anti-*Helicobacter pylori* activity of medicinal plants from the Kingdom of Saudi Arabia", The 22nd Annual Meeting of the Japanese Society for Helicobacter Research, at Oita, Japan. Jun 24th – 26th, 2016. [POSTER]
2. **Muhammad JS**. "Novel EGFR pathway mediates release of human beta-defensin 3 from *Helicobacter pylori*-infected gastric epithelial cells", The 21st Annual Meeting of the Japanese Society for Helicobacter Research, at Kobe, Japan. Jun 26th – 27th, 2015. [ORAL]
3. **Muhammad JS**. "Release of Human Beta-Defensin 3 From Gastric Epithelial Cells Infected With *Helicobacter pylori* by Novel EGFR Phosphorylation via p38/ERK Activation", The 20th Annual Meeting of the Japanese Society for Helicobacter Research, Tokyo, Japan. Jun 28th – 29th, 2014. [ORAL]
4. **Muhammad JS**. "Release of Human  $\beta$ -Defensin 3 From Gastric Epithelial Cells Infected With *Helicobacter pylori* by Novel EGFR Phosphorylation via p38/ERK Activation", Digestive Disease Week, Chicago, USA. May 4th – 6th, 2014. Gastroenterology, Vol. 146, Issue 5, S-503. [POSTER]
5. **Muhammad JS**. "Inhibition of *H. pylori*-induced inflammation in gastric epithelial cells by herbs and spices", The 19th Annual Meeting of the Japanese Society for Helicobacter Research, at Nagasaki, Japan. Jun 28th – 29th, 2013. [ORAL]

#### **LABORATORY SKILLS**

RT-PCR; Methylation microarray; Methylation specific PCR; gene sequencing/genomics; UCSC genome browser; oligonucleotide (PCR primers) designing; nucleic acid purification; gene expression; bacteria and human cells culture; *H. pylori* culture; RNA interference and gene knockdown; protein purification and western blotting; flow cytometry; confocal microscopy and immunofluorescence; in vitro tumorigenic assay; Patch clamp and electrophysiological studies; ELISA; *in vivo* animal (rat/mouse) experiments; immunohistochemistry, and immunocytochemistry.