



Dr. Santosh Kumar

Lecturer of Pathology
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Education:

MBBS	2004	Aga Khan University, Karachi, Pakistan
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Certification / License for medical practice:

MD (ECFMG Certification)	2008	USA
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Registration with Pakistan Medical and Dental Council	2006-2015	Pakistan
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Professional Training/ Positions:

Lecturer - Pathology	2011-Present	Alfaisal University, Riyadh, KSA
Post-Doc	2009-2010	University of Cincinnati, Ohio, USA
Clinical Observer & Research Associate	2009-2010	The Jewish Hospital of Cincinnati, Ohio, USA
Research Medical Officer	2006-2008	Aga Khan University, Karachi, Pakistan.
Intern 2004-2005	2004-2005	Aga Khan University Hospital, Karachi, Pakistan.

Research Interests:

- Cardiovascular Biology:
 - o Non-invasive determination of electrophysiological functions of the heart
 - o Non-invasive automated measurement of blood pressure
 - o Molecular biology of adipose tissue dysregulation in obesity leading to metabolic derangements, including increased cardiovascular risk and insulin resistance.
- Broad aspects of human development, including early child development.
- Medical Education

Publications:

Refereed journal papers/abstracts:

- Chatterjee TK, Idelman G, Blanco V, Blomkalns AL, Piegore MG Jr, Weintraub DS, Kumar S, Rajsheker S, Manka D, Rudich SM, Tang Y, Hui DY, Bassel-Duby R, Olson EN, Lingrel JB, Ho SM, Weintraub NL. Histone deacetylase 9 is a negative regulator of adipogenic differentiation. *J Biol Chem*. 2011 Aug 5;286(31):27836-47. Epub 2011 Jun 16.
- Chatterjee TK, Idelman G, Blomkalns AL, Blanco V, Weintraub DS, Piegore MG, Rajsheker S, Kumar S, Manka D, Tang Y, Neltner BS, Rudich SM, Hui DY, Bassel-Duby R, Olson EN, Weintraub NL. Histone Deacetylase 9 (HDAC9) is an Endogenous Inhibitor of Adipocyte Differentiation: Role in Diet-Induced Obesity. *Circulation*. 2010 Nov; 122(21 Supplement): A15527.
- Naqvi KR, Parigi L, Vellani CW, Kumar S. Noninvasive method for determining blood pressure and contours of arterial and volume pulses. *Journal of Biomedical Science and Engineering (JBISE)*. 2008 Aug; 1(2): 79-84.
- Arif H, Aijaz B, Islam M, Aftab U, Kumar S, Shafqat S. Drug compliance after stroke and myocardial infarction: A comparative study. *Neurology India*. 2007 Jun; 55(2): 130-135.
- Saeed SA, Rasheed H, Kumar S, Ali TM, Butt MU, Dhangana R, Jafri A, Zehra S, Gilani AH. Involvement of cyclooxygenase, phospholipase C and MAP kinase pathways in human platelet aggregation mediated by the synergistic interaction of platelet activating factor and arachidonic acid. *Pakistan Journal of Biological Sciences*. 2003 May; 6(10): 918-924.
- Saeed SA, Rasheed H, Kumar S, Ali TM, Butt MU, Saud MF, Dhangana R, Jafri A, Zehra S, Gilani AH. New aspects of cyclooxygenase and signaling inhibitors in arachidonic acid (AA) and platelet activating factor (PAF) mediated platelet aggregation. *Biochemical Society Transactions*. 2002 Nov; 30(6): A130-Abstract.

Poster Presentation

- Vellani C, Kumar S, Yusuf M, Mahmud S. (2008, December). Exercise induced changes in ventricular depolarization vectors. Poster presented at: Health Sciences Research Assembly, Aga Khan University; Karachi, Pakistan.
- Vellani C, Kumar S, Naqvi K. (2007, May). Comparison of systolic and diastolic pressures identified by Korotkoff sounds and pressure pulses. Poster presented at: Sixth Annual Research Retreat, Department of Medicine, Aga Khan University; Karachi, Pakistan.
- Vellani C, Kumar S, Naqvi K. (2007, April). Identification of systolic and diastolic points in sphygmomanometer cuff pressures by Korotkoff sounds and pressure pulses. Poster presented at: Health Sciences Research Assembly, Aga Khan University; Karachi, Pakistan.
- Vellani C, Yusuf M, Mahmud S, Ajaz-ul-Haq, Kumar S. (2006, May). Depolarization Vectors in Reversible Myocardial Ischemia. Poster presented at: Fifth Annual Research Retreat, Department of Medicine, Aga Khan University; Karachi, Pakistan.
- Arif H, Islam M, Aijaz B, Aftab U, Kumar S, Shafqat S. (2005, March). Drug compliance in stroke and myocardial infarction patients: a comparative study. Poster presented at: Health Sciences Research Assembly, Aga Khan University; Karachi, Pakistan.

- Saeed S, Rasheed H, Kumar S, Ali T, Butt M, Saud M, Dhangana R, Jafri A, Zehra S, Gilani A. (2002, July). New aspects of cyclooxygenase and signaling inhibitors in arachidonic acid (AA) and platelet activating factor (PAF) mediated platelet aggregation. Poster presented at: The Biochemical Society, 677th Meeting, Cardiff University, Wales; Cardiff, Wales, United Kingdom.

Oral Presentation

- Vellani C, Yusuf M, Kumar S, Mahmud S. (2009, May). Exercise induced changes in ventricular depolarization vectors. Oral Presentation presented at: Department of Medicine Research Day 2009, Aga Khan University; Karachi, Pakistan.
- Vellani C, Yusuf M, Mahmud S, Ajaz-ul-Haq, Kumar S. (2006, February). Depolarization vectors in reversible myocardial ischemia. Oral Presentation presented at: 3rd International Conference on Cardiac Electrophysiology, Armed Forces Institute of Cardiology and National Institute of Heart Diseases; Rawalpindi, Pakistan.

Workshops Attended:

During my stay at Aga Khan University, I participated in following workshops:

- Developing Postgraduate Assessment Programs: Building a Framework (May 2008)
- Medical Paper Writing (May 2007)
- Assessing the impact of Early Child Development programs (August 2006)
- Establishing sustainable services for Early Child Development (August 2006)
- Surgical Skills for Interns (August 2005)
- Scientific Manuscript Writing (June 2004)
- Irritable bowel syndrome (April 2004)
- Integrated Management of Childhood Illness (February 2002)

Computer skills:

Experienced in the use of the following software:

Microsoft Windows 7, Microsoft Office 2010 (particularly Excel, PowerPoint, and Word), Statistical Package for the Social Sciences (SPSS) version 16.0, and limited applications of Matlab 6.5, SAS 9.1.3, Origin 5.0, Epi Info, and EndNote.