


<b>NAME</b>	Jitender Kumar		
<b>DESIGNATION</b>	Assistant Professor		
<b>EMAIL ID</b>	jkumar4@amity.edu		
<b>CONTACT NUMBER</b>	09729812858		
<b>RESEARCH INTERESTS</b>	Human Genetics, Metabolomics		
<b>EDUCATIONAL QUALIFICATIONS:</b>			
Name of College / University	Degree	Year	
Maharshi Dayanand University, Rohtak, Haryana	M.Sc. (Genetics)	2002	
Institute of Genomics and Integrative Biology, Delhi	Ph. D. (Biotechnology)	2009	
<b>Title of Ph.D. thesis : Role of homocysteine in complex disorders.</b>			
<b>EXPERIENCE (in chronological order)</b>			
Designation	Type of post held (teaching/ research)	Name of the Institute	Year (From – To)
Post-doctoral Fellow	Research	Lund University, Malmo, Sweden	Mar 2009 – Apr 2011
Post-doctoral Fellow	Research	Karolinska Institutet, Stockholm, Sweden	May 2011 – Dec 2012
Post-doctoral Fellow	Research	Uppsala University, Uppsala, Sweden	Jan 2013 – Apr 2015
<b>No. of Ph.D. students supervised</b>		Awarded: (no. only) NIL	
		Ongoing: (no. only) NIL	
<b>PUBLICATIONS 27</b> (mention total no. here)		<ol style="list-style-type: none"> <li>1) <b>Jitender Kumar</b>, Swapan K. Das, Priyanka Sharma, Ganesan Karthikeyan, Lakshmy Ramakrishnan, Shantanu Sengupta. Homocysteine levels are associated with MTHFR A1298C polymorphism in Indian population. <i>J Hum Genet</i>, 2005;50(12):655-63.</li> <li>2) <b>Jitender Kumar</b>, Arun Kumar, Swapan Kumar Das, Garima Shukla, Shantanu Sengupta. Detection of differential gene copy number using denaturing high performance liquid chromatography. <i>J Biochem Biophys Methods</i>, 2005;64(3):226-34.</li> <li>3) <b>Indian Genome Variation Consortium</b>. The Indian Genome Variation database (IGVdb): a project overview. <i>Hum Genet</i>, 2005;118(1):1-11.</li> <li>4) <b>Jitender Kumar</b>, Raja Rao Sunkishala, Ganesan Karthikeyan, Shantanu Sengupta. The common genetic variant upstream of INSIG2 gene is not associated with obesity in Indian population. <i>Clin Genet</i>. 2007;71(5):415-8.</li> </ol>	

- 5) **The Indian Genome Variation Consortium**, Genetic Landscape of the People of India: a Canvas for Disease Gene Exploration. *J Genet*, 2008;87:3-20.
- 6) Priyanka Sharma, **Jitender Kumar**, Gaurav Garg, Arun Kumar, Ganesan Karthikeyan, Lakshmy Ramakrishnan, Vani Brahmachari, Shantanu Sengupta. Detection of altered global DNA methylation in coronary artery disease patients. *DNA Cell Biol*, 2008;27(7):357-65.
- 7) **Jitender Kumar**, Gaurav Garg, Elayanambi Sundaramurthy, P. Veerendra Prasad, Ganesan Karthikeyan, Lakshmy Ramakrishnan, Saurabh Ghosh and Shantanu Sengupta. Vitamin B12 deficiency is associated with Coronary artery disease in Indian population. *Clin Chem Lab Med*, 2009;47(3):334-8.
- 8) **Jitender Kumar**, Gaurav Garg, Arun Kumar, Elayanambi Sundaramoorthy, Krishna Rao Sanapala Saurabh Ghosh, Ganesan Karthikeyan, Lakshmy Ramakrishnan, Indian Genome Variation Consortium, Shantanu Sengupta. Single nucleotide polymorphisms in homocysteine metabolism pathway genes: Association of *CHDH* A119C and *MTHFR* C677T with hyperhomocysteinemia. *Circ Cardiovasc Genet*, 2009;2(6):599-606.
- 9) Iris Heid et al., **Jitender Kumar**. Meta-analysis of the *INSIG2* Association with Obesity Including 74,345 Individuals: Does Heterogeneity of Estimates Relate to Study Design? *PLoS Genetics*, 2009;5(10):e1000694.
- 10) Indu Kohaar, **Jitender Kumar**, Nisha Thakur, Showket Hussain, Md. Kausar Niyaz, Bhudev C. Das, Shantanu Sengupta, Mausumi Bharadwaj. Homocysteine levels are associated with cervical cancer independent of methylene tetrahydrofolate reductase gene (*MTHFR*) polymorphisms in Indian population. *Biomarkers*, 2010;15(1):61-8.
- 11) Fiona McGuigan, **Jitender Kumar**, Kaisa K Ivaska, Karl J Obrant, Paul Gerdhem, Holger Luthman, Kristina Åkesson. Osteocalcin gene polymorphisms influence concentration of serum osteocalcin and enhance fracture identification. *J Bone Miner Res*, 2010;25(6):1392-1399.
- 12) **Jitender Kumar**, Gaurav Garg, Ganesan Karthikeyan, Shantanu Sengupta. Cystathionine beta-synthase 844Ins68 polymorphism is not associated with the levels of homocysteine and cysteine in Indian population. *Biomarkers*, 2010;15(3),283-7.
- 13) **Jitender Kumar**, Silla Yumnam, Titiksha Basu, Anwasha Ghosh, Gaurav Garg, Ganesan Karthikeyan, Shantanu Sengupta. Association of polymorphisms in 9p21 region with CAD in North-Indian population: Replication of SNPs identified through GWAS. *Clin Genet*, 2011;79(6):588-93.
- 14) **Jitender Kumar**,\* Maria Swanberg,\* Fiona McGuigan, Mattias Callreus, Paul Gerdhem, Kristina Åkesson. LRP4 Association to

Bone Properties and Fracture and Interaction with Genes in the Wnt- and BMP Signaling Pathways. *Bone*, 2011;49(3):343-8. (\*Equal Contribution)

- 15) Gaurav Garg, **Jitender Kumar**, Vinay Singh Tanwar, Trayambak Basak, Sandeep Seth, Ganesan Karthikeyan, Shantanu Sengupta. Polymorphisms in transcobalamin II gene is associated with coronary artery disease in Indian population. *Biomarkers*, 2012;17(2):119-24.
- 16) Vinay Singh Tanwar, Mandeep P. Chand, **Jitender Kumar**, Gaurav Garg, Sandeep Seth, Ganesan Karthikeyan, Shantanu Sengupta. Common variant in FUT2 gene is associated with levels of vitamin B(12) in Indian population. *Gene*, 2013;515(1):224-8.
- 17) Lars Lind, Erik Ingelsson, **Jitender Kumar**, Ann-Christine Syvänen, Tomas Axelsson, Tom Teerlink. Genetic variation in the dimethylarginine dimethylaminohydrolase 1 gene (DDAH1) is related to asymmetric dimethylarginine (adma) levels, but not to endothelium-dependent vasodilation. *Vasc Med*, 2013;18(4):192-9.
- 18) **Jitender Kumar**, Corey D. Broeckling, Fredrik Wiklund, Erik Ingelsson, Jessica E. Prenni. Influence of biological and technical covariates on non-targeted metabolite profiling in a large-scale epidemiological study. *Current Metabolomics*, 2013;1(3):220-226.
- 19) Gaurav Garg,\* **Jitender Kumar**,\* Fiona McGuigan,\* Martin Ridderstråle, Paul Gerdhem, Holger Luthman, Kristina Åkesson. Variation in the MC4R Gene is Associated with Bone Phenotypes in Elderly Swedish Women. *PLoS ONE*, 2014;9(2):e88565. (\*Equal Contribution).
- 20) **Jitender Kumar**,\* Robert Karlsson, Corey D. Broeckling, Mun-Gwan Hong, Jonathan A. Prince, Jessica E. Prenni, Erik Ingelsson,† Fredrik Wiklund.† Associations of Body Mass Index and Obesity-Related Genetic Variants with Serum Metabolites. *Current Metabolomics*, 2014;2(4):27-26. (\*Corresponding Author, †Equal contribution).
- 21) **Jitender Kumar**, P. Monica Lind, Samira Salihovic, Bert van Bavel, Erik Ingelsson, Lars Lind. Persistent Organic Pollutants and Inflammatory Markers in a Cross-Sectional Study of Elderly Swedish People: The PIVUS Cohort. Article *in press (Environ Health Perspec)*.
- 22) **Jitender Kumar**,\* P. Monica Lind, Samira Salihovic, Bert van Bavel, Lars Lind, Erik Ingelsson. Influence of Persistent Organic Pollutants on Oxidative Stress in Population-Based Samples. *Chemosphere*, 2014;114:303–309. (\*Corresponding author)
- 23) **Jitender Kumar**,\* Monica Lind, Samira Salihovic, Bert van Bavel, Kristina N. Ekdahl, Bo Nilsson, Lars Lind, Erik Ingelsson. Influence of Persistent Organic Pollutants on the Complement System in a Population-based Human Sample. *Environ Int*,

	<p>2014;71C:94-100. (*Corresponding Author)</p> <p>24) <b>Jitender Kumar</b>, Lars Lind, Samira Salihovic, Bert van Bavel, Erik Ingelsson, P. Monica Lind. Persistent Organic Pollutants and Liver Dysfunction Biomarkers in a Population-based Human Sample of Men and Women. <i>Env Res</i>, 2014;134:251-6.</p> <p>25) Andrea Ganna,* Tove Fall,* Woojoo Lee, Corey D. Broeckling, <b>Jitender Kumar</b>, Sara Hägg, Patrik K.E. Magnusson, Jessica Prenni, Lars Lind, Yudi Pawitan, Erik Ingelsson. A workflow for UPLC-MS non-targeted metabolomic profiling in large human population-based studies. <i>bioRxiv</i>, 2014 doi: 10.1101/002782 (*Equal Contribution)</p> <p>26) Ilais M. Velásquez, <b>Jitender Kumar</b>, Harry Björkbacka, Jan Nilsson, Angela Silveira, Karin Leander, Anita Berglund, Rona J. Strawbridge, Johan Ärnlöv, Olle Melander, Peter Almgren, Lars Lind, Anders Hamsten, Ulf de Faire, Bruna Gigante. Duffy antigen receptor genetic variants and the association with Interleukin 8 levels. <i>Cytokine</i>, 2015;72(2):178-184.</p> <p>27) <b>Jitender Kumar*</b>, Erik Ingelsson, Lars Lind, Tove Fall. No evidence of a causal relationship between plasma homocysteine and type 2 diabetes: A Mendelian randomization study. <i>Front Cardiovasc Med</i>. 2015;2(11):1-6 (*Corresponding Author)</p>
<b>PATENTS</b> ( <i>total no.</i> ) <i>NIL</i>	<i>Details:</i>
<b>RESEARCH PROJECTS</b> Completed: ( <i>total no.</i> ) Ongoing: ( <i>total no.</i> )	<i>Details:</i>
<b>AWARDS &amp; HONOURS/ DISTINCTIONS</b>	<ul style="list-style-type: none"> <li>❖ Awarded the <b>Åkerhams stiftelse för KLINISK FORSKNING</b> grant of <b>250,000 Swedish Kronor</b> by the Uppsala University, Uppsala, Sweden in Oct, 2013.</li> <li>❖ Received a travel award of <b>18,000 Swedish Kronor</b> from the <b>Swedish Heart-Lung Foundation</b>, Sweden to attend the <b>63rd Annual ASHG Meeting</b> held in Boston, USA during October, 2013.</li> <li>❖ Received a travel award of <b>18,000 Swedish Kronor</b> from the <b>Swedish Heart-Lung Foundation</b>, Sweden to attend the <b>62nd Annual ASHG Meeting</b> held in San Francisco, USA and <i>Scientific Sessions 2012</i> meeting by American Heart Association held in Los Angeles, USA during November, 2012.</li> <li>❖ Received a travel award of <b>12,000 Swedish Kronor</b> from the <b>Karolinska Institutet Fonder</b>, Stockholm, Sweden to attend the <b>62nd Annual ASHG Meeting</b> held in San Francisco, USA and <i>Scientific Sessions 2012</i> meeting by American Heart Association held in Los Angeles, USA during November, 2012.</li> </ul> <p>Received a travel award of <b>16,850 Swedish Kronor</b> from the <b>Swedish Heart-Lung Foundation</b>, Sweden to attend the <b>“EPI /</b></p>

	<p><i>NPAM 2012 Scientific Sessions</i>” meeting held in San Diego, USA during March, 2012</p> <p>Awarded the fellowship grant of <b>18,000 Euro</b> by <i>Erasmus Mundus External Cooperation Window Lot 15 (EMECW15)</i> financed by the European Union in Apr, 2009 to work in Lund University, Sweden.</p> <ul style="list-style-type: none"> <li>❖ Won the “<b>Best Poster</b>” award in the “<i>XXXIII Annual Conference of the ISHG and International symposium on: Genetics Revisited: the Genomics and Proteomics Advantage</i>” conference held in Visakhapatnam, India during Feb, 2008.</li> <li>❖ Received a travel award of <b>Rs 30,000</b> from the <b>Department of Biotechnology</b>, India to attend the <i>HUGO’s 12<sup>th</sup> Human Genome Meeting</i>” held in Montreal, Canada during May, 2007.</li> <li>❖ Awarded the <b>Senior Research Fellowship</b> by the <b>University Grants Commission</b>, India from May 2005 to April 2008.</li> <li>❖ Awarded the <b>Junior Research Fellowship</b> by the <b>University Grants Commission</b>, India from May 2003 to April 2005.</li> </ul>
<p><b>MEMBERSHIP</b> with Professional/ Academic bodies</p>	