

# Hilly Rambblings

Vol.5 Iss. 2 (April – June 2015)

## From the Desk of Director

**Prof Samir Dev Gupta**  
Director and Academic Head



On behalf of the entire fraternity of JUIT, I extend hearty welcome to all students who have joined us for the academic session 2015-2016. On behalf of Jaypee Education System and JUIT Family we welcome fresh students who are stepping into a new world, a new life and a new profession.

Each year JUIT is reaching new heights, be it in teaching, research or student placements. Efforts of our faculty members in both teaching and research have direct bearing in student's placement, research publications, and admissions.

Our faculties are pursuing quality research; their publications exceed 2000 research papers in high quality journals and premier conferences. I congratulate all the faculty, staff & students of JUIT for their achievements.

Many of our students and some of our alumni have won many distinctions and we congratulate them for their success. The placement scenario at JUIT is excellent, students have got placement in reputed organizations such as Amazon, Aricent, Cognizant, Era Construction, HCL, IBM, Indiamart, Infosys, Wipro are few to mention. I congratulate all the placed students and faculty members for the successes in their endeavors. At the end I would like to once again Welcome All New Students to this beautiful campus of JUIT and let us all rejuvenate ourselves together to create a teaching and learning environment.

# Publications

## Book Chapters

Gunjan Goel, Sumit Singh Dagar, Mamta Raghav, Saurabh Bansal (2015). Rumen: an underutilized niche for industrially important enzymes.. In Anil Kumar Puniya, Rameshwar Singh, Devki Nandan Kamra, Rumen Microbiology: From Evolution to Revolution (pp. 247-264). Germany: Springer . [ISBN : 9788132224006] .

Rajinder S. Chauhan, Archit Sood (2015). Comparative Genomics in Euphorbiaceae. In v2., Jatropha, Challenges for a New Energy Crop (pp. 351-374). New York: Springer. [ISBN : 978-1-4614-4915-7] .

Sarita Kango, Rajesh Kumar (2015). Efficient removal of arsenic (III) from drinking water by Fe<sub>3</sub>O<sub>4</sub> nanoparticles coated sand: Time dependent removal study. In , Nanotechnology: Novel Perspectives and Prospects (pp. ). New Delhi: Tata-McGraw Hill.

Saurabh Bansal, Gunjan Goel (2015). Commercial applications of rumen microbial enzymes. In Anil Kumar Puniya, Rameshwar Singh, Devki Nandan Kamra, Rumen Microbiology: From Evolution to Revolution (pp. 281-292), Springer. [ISBN : 9788132224006] .

Tiratha Raj Singh (2015). Mitogenomics: Mitochondrial Gene Rearrangements, its Implications and Applications. In R. Keshavchandran, S. Raji Radhakrishnan, Agriculture Bioinformatics (pp. 259-69). Newdelhi: New India Publishing Agency. [ISBN : 978-93-83305-42-1] .

Vivek Kumar Sehgal, Anubhav Patrick, Ashutosh Soni, Lucky Rajput (2015). Smart human security framework using internet of things, Cloud and fog computing. In Rajkumar Buyya, Sabu M. Thampi, Intelligent Distributed Computing (pp. 251). Switzerland: Springer International Publishing . [ISBN : 978-3-319-11226-8] .

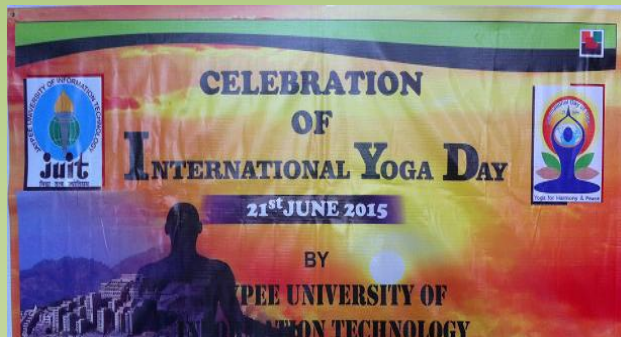
# Appointments



**Mr. Santu Kar** joined the Department of Civil Engineering. He has done M. Tech. in **Construction Technology & Management** from IIT Delhi in 2013. He has worked in Larsen & Toubro-Construction division (L&T) for more than four years.

## International Yaga Day Observed

JUIT observed international yoga day on 21st June 2015. The Hon'ble Director Brig. Balbir Singh (Retd) highlighted the benefits of Yoga in healthy life and more than 100 student and staff participated in the event.



## Journals

- A. Sood, Rajinder S. Chauhan (2015). Regulation of FA and TAG Biosynthesis Pathway Genes in Endosperms and Embryos of High and Low Oil Content Genotypes of *Jatropha curcas* L. *Plant Physiology & Biochemistry*, 94 (September 2015), 253-267. [IF2013: 2.75].
- A. Usmani, G. Kannan, A. Nanda, Subodh Kumar Jain (2015). Seepage behavior and grouting effects for large rock caverns. *International Journal of Geomechanics*, 15 (3), -.
- Ahmed Nawaz Khan, R.K. Khar (2015). Current scenario of spurious and substandard medicines in india: A systematic review. *Indian Journal of Pharmaceutical Science*, 77 (1), 2-7.
- Amit Kumar Singh, Mayank Dave, Anand Mohan (2015). Hybrid technique for robust and imperceptible multiple watermarking using medical images. *Multimedia Tools and Applications*, (Forthcoming), -. [IF2013: 1.346].
- Garima Bharti, Kumud Ranjan Jha, Ghanshyam Singh, Rajeev Jyoti (2015). Design of Azimuthally Periodic Wedge-Shaped Circular Ring Bandpass Frequency Selective Surface Using Transmission-Line Method. *Wireless Personal Communications*, (Forthcoming), -. [IF2013: 0.653].
- Garima Bharti, Kumud Ranjan Jha, Ghanshyam Singh, Rajeev Jyoti (2015). Angular stable, dual-polarized and multiband modified circular ring frequency selective surface. *Frequenz: Journal of RF-Engineering and Telecommunications*, 69 (5-6), 199-206. [IF2013: 0.340].
- Girish Chandra Pandey, H. M. Mamrutha, Ratan Tiwari, Sindhu Sareen, Shrutkirti Bhatia, Priyanka Siwach, Vinod Tiwari, Indu Sharma (2015). Physiological traits associated with heat tolerance in bread wheat (*Triticum aestivum* L.). *Physiology and Molecular Biology of Plants*, 21 (1), 93-99.
- Gunjan Goel, M. Raghav, A.K. Puniya and K. Singh (2015). Anaerobic degradation of tannins in *Acacia nilotica* pods by *Enterococcus faecalis* in co-culture with ruminal microbiota. *Journal of General and Applied Microbiology*, 61: 31-38
- Jibesh Kumar Padhan, Varun Kumar, Hemant Sood,

## International Visits

**Dr. Gunjan Goel** along with **Dr. Rishi Mahajan** (Research Associate) under DST-RFBR project visited **Winogradsky Institute of Microbiology, Russian Academy of Sciences, Russia** during 17-22 May, 2014. The visit included presentation and discussion on the progress of joint project between JUIT and INMI, RAS and prospects for future collaboration.

Tiratha Raj Singh, Rajinder S. Chauhan (2015). Contents of therapeutic metabolites in *Swertia chirayita* correlate with the expression profiles of multiple genes in corresponding biosynthesis pathways. *Phytochemistry*, 116 (August 2015), 38-47. [IF2013: 2.547].

Kumar Jitendra, Bajaj Prasad, Mishra Gyan P, Singh Shashi Bala, Harvinder Singh, Naik Pradeep K (2015). Utilization of EST-derived SSRs in the genetic characterization of *Artemisia annua* L. genotypes from Ladakh, India. *Indian Journal of Biotechnology*, 13 (4), 464-472. [IF2013: 0.477].

Kusum Mehla, Jayashree Ramana (2015). DBDiaSNP: An Open-Source Knowledgebase of Genetic Polymorphisms and Resistance Genes in Diarrheal Pathogens. *OMICS: A Journal of Integrative Biology*, 19 (6), 354-360. [IF2013: 2.730].

Kusum Mehla, Jayashree Ramana (2015). Unravelling novel therapeutic targets in foodborne pathogen *Campylobacter jejuni*: subtractive genomics integrated with comparative metabolic pathway analysis approach. *OMICS: A Journal of Integrative Biology*, (Forthcoming), -. [IF2013:

2.730].

- Meenakshi Sood, Sunil Vidya Bhooshan (2015). Parameter-selective based CAD system for epileptic seizure classification. *International Journal of Applied Engineering Research*, 10 (10), 25389-25407.
- Nichole Baldwin, Owais Gilani, Suresh Raja, Stuart Batterman, Rajiv Ganguly, Philip Hopke, Veronica Berrocal, Thomas Robins, Sarah Hoogterp (2015). Factors affecting pollutant concentrations in the near-road environment. *Atmospheric Environment*, 115 (), 223-235. [IF2013: 3.281].
- Nikita Gupta, Aditya Tiwary, Poonam, Ashok Kumar Gupta (2015). Advanced Retrofitting Techniques for Reinforced concrete Buildings. *Journal of Civil Engineering and Environmental Technology*, 2 (7), 587-592.
- Nikita Gupta, Poonam, Ashok Kumar Gupta (2015). Retrofitting of an Existing Residential Building by Using Shear Wall. *Journal of Civil Engineering and Environmental Technology*, 2 (7), 582-586.
- Niraj Singh Parihar, Rajesh Prasad Shukla, Ashok Kumar Gupta (2015). Effect of Reinforcement on Soil. *International Journal of Applied Engineering Research*, 10 (55), 4147-4151.
- N. Singh, G. Goel, M. Raghav (2015). Prevalence and characterization of *Cronobacter* spp. from various foods, medicinal plants and environmental samples. *Current Microbiology* 71:31-38
- P.K. Gupta, Gunjan Gugnani, Satya Prakash Ghrera (2015). XML DNA Encryption: Improved Security of Cloud Applications. *CSI Communications*, 39 (4), 16-18.
- Pavan Kumar Agrawal, Shruti Agrawal, Rahul Shrivastava (2015). Modern molecular approaches for analyzing microbial diversity from mushroom compost ecosystem. *3 Biotech*, (Forthcoming), -.
- Prashanth Suravajhala, Tiratha Raj Singh (2015). Is HNF4A a candidate to study zinc finger protein slug?. *International Journal of Bioinformatics Research and Applications*, 11 (4), 366-.
- Puneet Bhushan, Mohd. Abbas Murtaza (2015). Bancassurance in India: A Managerial Perspective. *Asian Journal of Research in Banking and Finance*, 5 (6), 151-159.
- Ravindara Bhatt, Raja Datta (2015). A two-tier strategy for priority based critical event surveillance with wireless multimedia sensors. *Wireless Networks: The Journal of Mobile Communication, Computation and Information*, (Forthcoming)
- Rishi Rana, Rajiv Ganguly, Ashok Kumar Gupta (2015), "An Assessment of Solid Waste Management System in Chandigarh City, India" *Electronic Journal of Geotechnical Engineering*, 20 (6), 1547-1572.
- Ritendra Mishra, Shruti Jain, C. Durga Prasad (2015). A Review On Piezoelectric Material As A Source Of Generating Electricity And Its Possibility To Fabricate Devices For Daily Uses Of Army Personnel. *International Journal of Systems, Control and Communications*, 6 (3), 212-221.
- S. S. Fouad, M. S. El-Bana, Pankaj Sharma, Vineet Sharma (2015). Analysis of chemical ordering and fragility for Ge-Se-In glasses. *Applied Physics A-Materials Science & Processing*, 120 (1), 137-143. [IF2013: 1.694].
- Shri Ram (2015). A bibliometric assessment of liquorice (*Glycyrrhiza glabra*) research trends. *Annals of Library and Information Studies*, 62 (1), 27-32.
- Shri Ram (2015). A Bibliometric Profile of Lymphatic Filariasis Research in India. *Journal of Vector Borne Diseases*, 52 (1), 73-78. [IF(2013) : 1.177].
- Shri Ram (2015). A quantitative assessment of chikungunya research publications, 2004-2013. *Tropical Journal of Medical Research*, 19 (1), -.
- Shruti Jain, D. S. Chauhan (2015). Implementation of fuzzy system using different voltages of OTA for JNK pathway leading to cell survival/ death. *Network Biology*, 5 (2), 62-70.
- Shruti Jain, D. S. Chauhan (2015). Mathematical Analysis of Receptors For Survival Proteins. *International Journal of Pharma and Bio Sciences*, 6 (3), 164-176.



Shweta Pandit, Ghanshyam Singh (2015). Backoff Algorithm in Cognitive Radio MAC Protocol for Throughput Enhancement. IEEE Transactions on Vehicular Technology, 64 (5), 1991-2000.

Tarun Pal, Nikhil Malhotra, Sree Krishna Chanumolu, Rajinder S. Chauhan (2015). Next-generation sequencing (NGS) transcriptomes reveal association of multiple genes and pathways contributing to secondary metabolites accumulation in tuberous roots of Aconitum heterophyllum Wall. Planta, (Forthcoming), -. [IF2013: 3.376].

Tejashree Mahaddalkar, Charu Suri, Pradeep Kumar Naik, Manu Lopus (2015). Biochemical characterization and molecular dynamic simulation of  $\beta$ -sitosterol as a tubulin-binding anticancer agent. European Journal of Pharmacology, (Forthcoming), -. [IF2013: 2.684].

Uday Singh Kushwaha, P. K. Gupta, Satya Prakash Ghrera (2015). Performance evaluation of AOMDV routing algorithm with local repair for wireless mesh networks. CSI Transactions on ICT.

### **Publication in conferences**

Singh N, Raghav M., Goel G. 2015. Plasmid encoded virulence traits in Cronobacter sakazakii. The 6th Congress of European Microbiologists (FEMS 2015 Congress), June 7-11, 2015 Maastricht, The Netherlands

Abhilasha Sharma, Mayank Dave, Amit Kumar Singh, and S P Ghrera (2015). Encryption Based Medical Image Watermarking against Signal Processing Attacks, Proceedings of 2015 International Conference on Future Computational Technologies (ICFCT'2015) Singapore, March 29-30, 2015, ISBN 978-93-84468-20-0.

P Syamala Jaya Sree, Prasanth Kumar Pattnaik, S. P. Ghrera (2015), "A Novel Algorithm for Suppression of Salt and Pepper Impulse Noise in Fingerprint Images Using B-Spline Interpolation", Proceedings of the 3rd International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA).

Anil Kumar, Vasant A. Matsagar (2015). "Sensitivity Analysis of Progressive Collapse of Steel Moment Frames Subjected to Blast Loading", Proceedings of the PROTECT-2015: Fifth International Workshop on Performance, Protection &

## PROJECT GRANTED



**Dr Chittranjan Rout**, Associate Professor, Department of Biotechnology and Bioinformatics has been awarded a research project by The Indian Council of Medical Research (ICMR). The research project entitled **“Development of Inhibitors to Target Glyoxylate and Methylecitrate Cycles Essential for Persistence of Mycobacterium tuberculosis”** has been sanctioned worth INR 35 Lac. This project is a joint collaboration between IIIT & JUIT. Dr. Vibha Gupta, Deptt. of Biotechnology, IIIT, Noida is the Co-PI of the Project.

Strengthening of Structures under Extreme Loading, Michigan State University, East Lansing, Michigan, USA, June 28 - 30, 2015, ISBN: 978-1-60595-227-7.

Anil Kumar, Sandip Kumar Saha, Vasant A. Matsagar, "Uncertainty Quantification of Stochastic Linear Systems under Random Impulse Loadings", Proceedings of 41st Annual German Congress on Acoustics (DAGA 2015) Nürnberg, Germany, March 16 - 19, 2015, ISBN: 978-3-939296-09-6.

Ashwani Kumar, S. P. Ghrera, Vipin Tyagi (2015), A Comparison of Buyer-Seller Watermarking Protocol (BSWP) Based on Discrete Cosine Transform (DCT) and Discrete Wavelet Transform (DWT). Emerging ICT for Bridging the Future, Proceedings of the 49th Annual Convention of the Computer Society of India (CSI), pp 401-408.

### Invited Talks

Mr. Anil Kumar, Department of Civil Engineering delivered an invited lecture on **"Abnormal Loadings on Structures and their Mitigation"** during one-week short-term course on *Disaster*

*Mitigation and Management* at National Institute of Technology (NIT), Kurukshetra (June 22-26, 2015).

Ms. Poonam, Department of Civil Engineering delivered an invited talk on **"Advances in Earthquake Mitigation Techniques"** during one-week short-term course on *Disaster Mitigation and Management*, National Institute of Technology (NIT), Kurukshetra, (June 22-26, 2015).

## Summer Training

Department of Biotechnology and Bioinformatics, Jaypee University of Information Technology (JUIT), offered summer training of **4/6 weeks** during **June-July 2015** in different areas of Biotechnology & Bioinformatics to M.Tech./B.Tech/M.Sc./B.Sc. students. More than 100 student from different part of the country attended this summer training program. The training program was co-ordinated by **Dr Rahul Srivastava**.



# Hilly Ramblings

Quarterly Newsletter of JUIT

## Editorial Board

- Dr. Shri Ram, Learning Resource Center
- Dr. D. S. Saini, Department of Electronics and Communication Engineering
- Dr. S.K. Hazra, Dept of Physics and Material Science
- Dr. Sakshi Babbar, Dept of Computer Science
- Dr. Neel Kanth, Department of Mathematics

Comments and Feedback are invited at: [hillyramblings@juit.ac.in](mailto:hillyramblings@juit.ac.in) \*Like us on Facebook: <https://www.facebook.com/hillyramblings>