Registration Form

"Research Avenues in Genomics" National Workshop on

17 - 21, Dec - 2018

2. Designation: 1. Name:

3. Department:

4. Email-ID:

5. Mobile No:

The information provided by me is true to the best of my knowledge. I agree to abide by the rules and regulations governing the National Workshop. If selected, I shall attend the program for the entire duration.

Place : Date :

Signature of the Applicant

an employee of our Institute and is hereby permitted for the above National Workshop Mr./Ms./Dr.

Place : Date :

Chief Patrons

Sri. T R Ashwathnarayana Setty, Vice President, NES Sri. Amarendra Kireeti, Joint Secretary, NES Sri. A S Vishwanatha, President, NES Sri. S N Nagaraja, Secretary ,NES Sri. C R Nagaraj, Treasurer, NES

Patrons

Vice Principal, JNNCE, Shivamogga Dr. H R Mahadevaswamy Principal, JNNCE, Shivamogga Dr. L K Sreepathi

Organizing Chair

Dr.Nirmala Shivanand, HOD, Dept. of CS&E, JNNCE

Coordinators

Dr. Manjula G.R, Assoc. Professor, Dept. of CS&E, JNNCE Ms. Sankhya N Nayak, Asst. Professor, Dept. of CS&E, JNNCE Dr. K.M Poornima, Professor, Dept. of CS&E, JNNCE

Organizing Committee

Department of Computer Science & Engineering All Teaching and non Teaching staff

Resource Persons

 D.F., M.a.I.a.II. G.O.W.d.a., Pret., & Head, Centre for Functional Genomics & Bioinformatics. $\overline{\mathbb{Q}} \in \mathbb{D}^{1} \oplus \mathbb{C}$ Chairperson, Dept. of Sicinformatics, Akkamahadevi Women's University of Trans Disciplinary & Health Sciences, Bangalore RANG BIR SAR, Release 2001s CS, Mypore university 6. Dr. Padmalatha Rai, Protessor, School of Life Sciences, MAHE, $4, Dr. (K, N, \mathcal{M}nntesh)$, Patered , 205 o South, eyeso Gorenty 5. Dr. Bobby Paul, Protessor, School of Life Sciences, aRREUniversity, Vijayapura

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7. Dr. Satish K.M., Professor, Dept of Solechnology, Apticultural University, Shranoga 9. Dr. Narayanamurthy, Protessor, NES Phamacy College, Shiramoga 10. Dr. Rudresh B. H, bept. of AGB, veterinary College, Shivemooga 8. Dr. Kuppast, Principal, NES Pharmacy College, Shivamogga

National Education Society (R.)

Jawaharlal Nehru National College of Engineering Shivamogga - 577 204

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and Certified by UGC 2f & 12B]

Internal Quality Assurance Cell







Research Avenues in Genomics

National Workshop

17 - 21, Dec - 2018

Computer Science & Engineering Department of Chanized by

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Head of the Institution/HOD

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About the College

of the promier technical institutions of Karnataka imparting quality teelmiest and management education and training toetuderits from all regene methols of the National Education Boolety, JNNOE is one traditution has put its best afforts in achieving perfection in every parts of India. Started in the year 1980, over the last 38 years the meet sought after destinationsfor technical education in aspect of technical,menagement education and training. It is one of Karnataka Spread uver 30 4 acres, the campus has the amenities to dependment is equipped with good intrastructure with highly qualified cates to the needs over 3500students and 400 employees. Each sivi experienced faculty and well equipped laboratories. The institution has 44 doctorates and 144 research scholars to its credit Jawahartal Netvu National College of Engineering (JNNCE) is a JNNCE is reinted by the following agensies in 2010 ET.

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Department Vision

provide science & education, utilizing the potential of computer changing needs of industry and Society. be one of the pre-eminent departmer to technical engineering to meet the ever and knowledge based

Department Mission

challenges interaction for the development of state of the emphasizing on research and effective industry art technological infrastructure and faculty component Mould the students to meet the emerging đ industry and society,

About the Workshop

view the course would provide expert talks on solving complex genomic problems. With this in days to provide a platform for faculties and 20 Genomics and its research challenges to aid in researchers, to understand the concepts of Demo-Sessions, This Workshop is being organized for Five topics olled Delow along ž

l opics

- 1. Introduction to Genomics and NCBI and other databases
- N DNA Sequencing
- Gene expression Data Processing
- Gene sequencing Analysis
- Bioinformatics tools
- 3 Biotechnological opportunities / Research Human Population Genomics
- challenges in the area of genomics
- B. Case studies related to Genomics

Who can attend

Agriculture and Pharmacy. Information Science & Engineering, Departments of Computer Science & Faculty members and research Scholars from Biotechnology, Engineering,

Resource Persons

Research Institutes and colleges will deliver experi lectures and demo sessions. Resource persons from distinguished

Registration details

below: paid through online, the details of which are given each participant. The registration fee should be A registration fee of Rs. 1000 will be charged for

SB A/G, No.: 6322201000004 IFSC code : CNRB0006322 Branch Bank : JNNCE Campus, Shivamogga CANARA BANK

participants is limited to 45 on first come first serve basis the HOD or Principal, must be sent along with online transaction to the coordinator email id. The number of Scanned copy of the application with dully forwarded by

provided for the participants. with a nominal fee in the college hostel. No TA/DA will be However accommodation may be provided to the participant Note: Registration fee does not include accommodation

Important Dates

Workshop Dates: 17-12-2018 to 21-12-2018 Timings: 9,00 am to 5,30 pm Venue: Ad-Blook Seminar hall & Computer Lab, Dept. of CS&E Submission of application forms by: 10-12-2018.

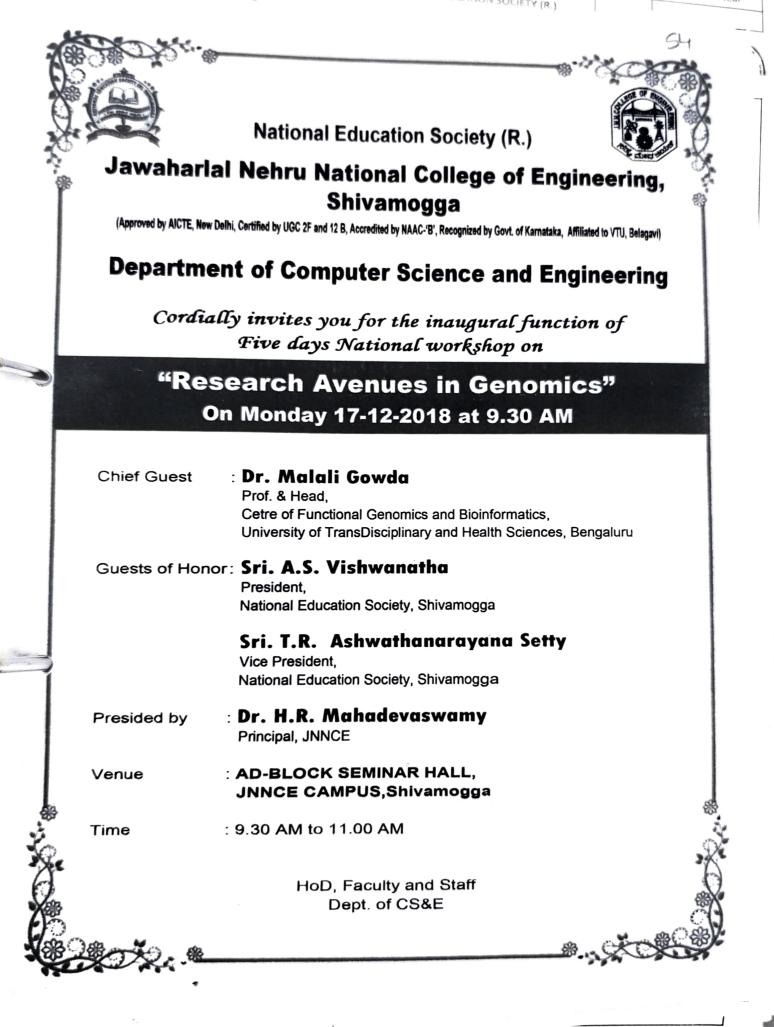
t mail genomicstdp@jnnce.ac.in Sankhya N Nayak: 9742914647 Dr. Manjula G.R 9164300521 Dr. K.M Poornima : 9844528218 Address for Communication

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(Approved by AICTE, New Delhi	Shivamogya i, Certified by UGC 2F and 12 B, Accredited by NAAC-'B', Recognized by Govt. of Karnataka, Affiliated to VTU, Belagavi
Departmen	t of Computer Science and Engineering
Cordially	y invites you for the valedictory function of Five days National workshop on
"Res 0	earch Avenues in Genomics" on Friday 21-12-2018 at 2.30 PM
Chief Guest	Dr. B.T. Prabhakar Assistant Professor, Molecular Biomedicine Laboratory Post Graduate Dept of Studies and Research in Biotechnology, Sahyadri Science College, Shivamogga,
Guests of Hono	or: Sri. S.N. Nagaraja Secretary, National Education Society, Shivamogga
	Sri. C.R. Nagaraj Treasurer, National Education Society, Shivamogga
Presided by	Principal, JNNCE
Venue	AD-BLOCK SEMINAR HALL, JNNCE CAMPUS, Shivamogga
Time	:2.30 PM to 3.30 PM
	HoD, Faculty and Staff
ξ. 	Dept. of CS&E



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Jawaharlal Nehru National College of Engineering, Shivamogga

Department of Computer Science & Engineering

National Workshop On "Research Avenues in Genomics"

AGENDA

- 1. INVOCATION
- 2. WELCOME ADDRESS
- 3. INAUGURATION BY LIGHTING LAMP
- 4. WORKSHOP OVERVIEW
- 5. CHIEF GUEST INTRODUCTION
- 6. FELICITATION OF CHIEF GUEST
- 7. CHIEF GUEST ADDRESS
- 8. RELEASE OF JNNCE NEWS LETTER
- 9. ADDRESS AND WISHES BY GUEST OF HONOR
- **10. PRESIDENTIAL ADDRESS**
- **11. VOTE OF THANKS**

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National Education Society [®]

Jawaharlal Nehru National College of Engineering, Shivamogga-577204 (Internal Quality Assurance Cell) Department of Computer Science & Engineering National Workshop on "Rescarch Avenues in Genomics"



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Workshop on "Rescarch Avenues III Jon Vorgense	(018)	
Avenues	Schedule (17-12-2018 to 21 -12-2018)	
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Worksho	Sched	

Genomics introduction, NCBI	and other database Dr.Joy Hoskeri, Dept. of Bioinformatics, Akkamahadevi Women's University, Vijayapura	Gene sequence analysis Dr. Lalitha Rangarajan, Mysore University e	a Transposons study and effect Dr. Narayana Murthy b pharmacy College, Shivamogga e e	k Metagenomics k Apoorva Inana School of Life Sciences Manipal	
	Human Genome Project Dr. Joy Hoskeri, Dept. of Bioinformatics, Akkamahadevi Women's University, Vijayapura	Gene Expression Data Processing Dr. Lalitha Rangarajan, Mysore University	Bioinformatics tools Dr. Rudresh B.H Veterinary College, Shivamogga	Cell sequencing and alignment Dr.Bobby Paul School of Life Sciences Manipal	Valedictory Function
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INI J 00'T - INIMOC'TT	Key Note Address Dr. Malali Gowda TransDisciplinary University (TDU), Bangalore	Making Sequencing from sequencing Dr. Vidya Niranjan, R.V college of engineering, Benaduru	Bioinformatics tools Dr. Rudresh B.H Veterinary College, Shivamogga	Human population genomics Manik Vohra School of Life Sciences Manipal	Cancer Cell Sequencing Dr. Prabhakar B T Sahyadri College, Shivamogga
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WINUULI O TH.UUAINI	Registration and Inauguration Registration at 9.00 a.m	DNA Sequencing Dr. Satish K.M Agriculture University,	MALDI-TOF-MS in biological Reasearch immunochemical Principals in Vaccinology	Dr. S Shishupar Application of genomics in drug design Sandeep Mallya	School of Life School of School
Trav and Date	nday 2-2018	Tuesday 18-12-2018	Wednesday 19-12-2018	Thursday 20-12-2018	Friday 21-12-2018

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Jawaharlal Nehru National College of Engineering, Shivamogga Department of Computer Science & Engineering



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National Workshop on "Research Avenues in Genomics" Attendance(17-12-2018)

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Department of Computer Science & Jawaharlal Nehru National College of Engineering, Shivamogga Engineering



National Workshop on "Research Avenues in Genomics"

Attendance(18-12-2018)

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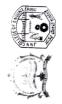
Jawaharlal Nehru National College of Engineering, Shivamogga Department of Computer Science & Engineering



National Workshop on "Research Avenues in Genomics" Attendance(19-12-2018)

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National Workshop on "Research Avenues in Genomics"

Attendance(20-12-2018)

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National Education Society Jawaharlal Nehru National College of Engineering Shivamogga-577204 Department of Computer Science & Engineering National Workshop on "Research Avenues in Genomics"	17 th to 21 th Dec 2018	FEEDBACK FORM	Name : Thaseon Bhashith	Address : Dept. of CSKE,	INNUE, SWIMOPA	+	Cell No. : 94489128子ひ Your opinion about:	SL.No	1 TECFLUCAL SESSIONS	2 FOOI)	3 ACCO MMODATION	4 HOSF I FALITY	6 OVER ALL ARRANGEMENTS	In your opinion w nich are the major strengths of the Workshop	3. Cleod Mschrie penans howing lementedge.	In your opinion w nich are the major weakness of the Workshop	1. Less number 9 participants. 3.	Any other Suggessions: Condu ct live types of	oner in a year

(Please return this form completed in all respects to the conveners during valediction)

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Jawaharlal Nehru National College of Engineering Shivatuogga-577204 Department of Computer Science & Engineering National Workshop on "Research Avenues in Genomics" National Education Society

17% to 21" Dec 2018

FEEDBACK FORM

grashmimothow @gmail, com Rayananda Segar Universi Rashmi MethKur 9916091626 Bungalore Cell No. Address E-mail Name

Your opinion about:

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In your opinion wich are the major strengths of the Workshop 1. Morkshop was excellent, as an introduction into the genemics field 2. It was well structured, insightful, 3. Educative about the data management, analysis of genemics. 4. Dractices tools involved. 4. por a chie es, teels involved. U In your opinion w ich are the major weakness of the Workshop



Any other Sugges ions

(Please return this form completed in all respects to the conveners during valediction)



National Education Society Jawaharlal Nehru National College of Engineering Shivamogga-577204 Department of Computer Science & Engineering National Workshop on "Research Avenues in Genomics"

17n to 21" Dec 2018

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Name	Address	

sunilhr@pestrust.edu...

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E-mail

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Any other Sugges ions:

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707 National Education Society Jawaharlal Nehru National College of Engineering Shivatmonga-Department of Computer Science & Engineering National Workshop on "Research Avenues in Genomies"

17º to 21° Dec 2018

FEEDBACK FORM

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pinion \boldsymbol{w} nich are the major weakness of the Workshop 9

Any other Sugges ions:

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National Education Society * Jawaharlal Nehru National College of Engineering, Shivamogga-577204 (Internal Quality Assurance Cell) Department of Computer Science & Engineering National Workshop on "Research Avenues in Genomics"



(17-12-2018 to 21 -12-2018)

& Engineering Department of JNNCE from 17.12.2018 to 21.12.2018 was inaugurated by Dr.Malali Gowda, Prof. & Head. Centre for functional Genomics & Bioinformatics, University of TransDisciplinary & Health Sciences One week workshop on " Research Avenues in Genomics " organized by Computer Science Bengaluru on 17.08.2018 at JNNCE Campus.

The President of National Education Society, Sri. A S Vishwanatha and Dr. L K Sreepathi, Vice Prinicipal were present on the occasion. programme was presided over by Dr. H R. Mahadevaswamy, Principal of JNNCE, к К of JNNCE. Dr. Nirmala Shivanand, HoD, and Dept. of CS

Ec emphasized that there is huge scope in research in the area of genomies and computational genomics would belp to get work done faster. He also emphasized on the need to get different departments to get together to Malali Gowda in his inaugural address highlighted the applications of genomics ranging from improving designing gene specific medicines, cloning, improving quality crops, animals. chieve these goals faster. agricultural crops. Dr.

Afternoon sessions on first day were handles by Dr. Sandeep Telkar. He gave introduction to basics of familiarizing the audience with terms DNA and components, proteins, difference between peneties and genomics. He also highlighted the increasing research in the area of genomics in drug design genomics by

the first session on 15th was handled by Dr. Satish K.M. he discussed how DNA sequencing is used to genomes of areas of sciencesequence of individual genes, larger genetic regions, chromosomes or entire in many organisms. He highlighted DNA sequencing has become a key technology medicines, forensies, and anthropology to name a few, determine

Dr. Vidya Niranjan mentioned genome produces huge amount of dat. Sequencing is used to identify person and a trove of predictors of genetic medical discases, deliver biomedically significant information about persons.

Organized by Department of Computer Science and Engineering.

68	On 18° afternoon Dr. Lalitha Rangarajan handled 2 sessions. She briefed the audience about the use of	**** K-INCARS clustering, decision trees in gene expression data processing and role of R-Programmin, fonguage. She gave a glimpse of how to use existing data and analyse them.	On 10 ⁴ Dr. Shishupala briefed us about MALDFTOF. He gave an interesting lecture on immunochemical principals in vaccinology.	Dr. Rodresh B.H introduced the faculty to the various databases in NCBI and he demonstrated various tools used in processing and analyzing the genome data.	Dr. Narayana Murthy talked about transposons- an element in a DNA sequence that can change its position within a genome, sometimes creating or reversing mutations and altering the cell genetic identity and genome size and how this can be used to advantage in pharmaceutical applications.	$\int e^{-2it^2} Prot$ Sandeep Mallya highlighted the areas where computer science can work hand in hand with remnitermaticians to develop tools to speed up the process of processing and analyzing the genome data.	Manik Vobra talked about human genomics, vast possible applications, legal and ethical issues and research opportunities.	D. Bobby Paul showed how genome data looks like. He highlighted on the need to reduce data size and the role of computer scientists in that. He demonstrated reading and sequencing data and making sense of it.	Ms. Apports Juana talked about metagenomics and the machines that are under construction using bacteria information in wounds to prescribe personalized antibiolics.	On 21 ¹ Dr. Prabhakar B T educated the audience on Cancer, causes, cancer statistics in India, types of overvand its molecular hass, cancer genome, methods of sequencing and self-care, and data analysis.	For valsefictory Sri, S.N. Nagaraja, Secretary, NES, Dr. L.K. Sripathi, Vice Principal, Dr. Nirmala Silvanarof, BoD, dept. of CS & E, and Dr. Prabhakar were present.	3 (2024) of 40 participants registered for the workshop. Beside participants from our college, participants from PESIL&M. Shimoga, BHJI Davangere, AFI, chikkamagaluru, Sapthagiri College of Engineering- tional PESIL&M. Shimoga, BHJI Davangere, AFI, chikkamagaluru, Sapthagiri College of Engineering- tional PESIL&M. Shimoga, BHJI Davangere, AFI, chikkamagaluru, Sapthagiri College of Engineering- tional PESIL&M. Shimoga, BHJI Davangere, AFI, chikkamagaluru, Sapthagiri College of Engineering- ticipants.	Bangalove A13 - Hanganne, Dayanan Jogu Current, Kakup. Logic Jowe and Horricultur Shimoga also attended the workshop. CO- Pederators	Organized by Department of Computer Science and Engineering.
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