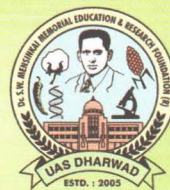


UNIVERSITY OF AGRICULTURAL SCIENCES, DHARWAD KARNATAKA, INDIA



National Conference
on



Genetics and Cytogenetics

February 1-3, 2016



Jointly Organized by

UNIVERSITY OF AGRICULTURAL SCIENCES, DHARWAD
&

Dr. S. W. MENSINKAI MEMORIAL EDUCATION AND RESEARCH FOUNDATION (R)

For more details visit

<https://sites.google.com/a/uasd.in/ncgc-2016>

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PREAMBLE

The work of Gregor Mendel and the further advances which followed his discoveries established that traits are controlled by hereditary factors or genes that consist of the hereditary material (DNA). The genes are expressed in an environment to produce a trait. In order to change a trait or its expression, one may have to change its genotype, and/or modify the environment in which it is expressed. This may be achieved in plant production system through the application of production related inputs. This is true for certain traits, once such environmental factors are withdrawn, the expression of the trait reverts to the status quo. We always strive to bring or modify expression of traits in such way by targeting specific genes in order to produce expression of trait which is transferable from one generation to the other. One of the earliest applications of genetics to plant breeding was made by the Danish botanist Wilhelm Johannsen.

Chromosomes represent the main focus of cytogenetics. One of the main challenges of modern-day cytogenetics is to unravel the relation between the genomic content and architecture of chromosomes and their genetic function. A swiss botanist Nageli was the first to describe chromosomes in plant cells during 1840's but Waldeyer coined this term in 1888 after developing staining techniques. Cytogenetics originated by the union of Cytology and Genetics when Sutton and Boveri (1903) proposed chromosomal theory of inheritance which marked the birth of classical cytogenetics. Plant species have provided an important contribution to the knowledge of chromosome evolution and those with large chromosomes have often been used in the study of chromosome behavior. The knowledge in Cytogenetics has been used by various workers to study the evolution of crop species and their diversity. In this regard, earlier cytogeneticists have characterized the chromosome number, chromosome morphology, karyotype to identify a particular crop species and to understand the evolution of cultivated crops.

Nowadays, using chromosome segment substitution lines (CSSLS), important traits have been physically mapped to specific chromosomal segments in various crops of interest. Further, molecular tools like GISH, FISH, Fibre FISH and advanced marker technologies are being used to understand structural and functional genomics and to fine map the novel genes of interest. The rapid development of these molecular tools in the last few years has immensely helped to understand the organization, behavior and evolution of chromosomes. Emerging fields such as Plant Chromosome Engineering also rely immensely on the cytological analysis and recent techniques in Cytogenetics.

THE CONFERENCE

In this direction, the present conference will provide an excellent opportunity for compilation of current research in fields of Genetics, Cytogenetics and Plant Breeding. As a tribute to the earlier renowned Cytogeneticist Late Dr. S. W. Mensinkai and others, Dr. S. W. Mensinkai Memorial Education and Research Foundation in collaboration with The University of Agricultural Sciences, Dharwad is organizing a National Conference on "Genetics and Cytogenetics". The identified theme areas for the conference aim to review, update and integrate the diverse fields

of Genetics, Cytogenetics and Plant breeding. This is ultimately expected to enhance the vision of plant scientists.

CONFERENCE THEMES

1. Perspectives of Cytogenetics and Genetics in chromosome evolution, exploration and inventorisation
2. Advance Cytogenetic tools for trait improvement
3. Achievements of conventional Plant Breeding in current scenario
4. Marker assisted Plant Breeding – its relevance in crop improvement
5. Plant Genetic Resource Management in IPR regime

LEAD SPEAKERS

1. Dr. Bikram S. Gill, Department of Plant Pathology, Kansas State University, USA
2. Dr. David Stelly, Professor, Texas A&M University, USA
3. Dr. P. K. Gupta, Hon. Emeritus Professor, CCS University, Meerut
4. Dr. C. L. L. Gowda, Former DDG, ICRISAT, Hyderabad
5. Dr. S. R. Bhat, Principal Scientist, NRC on Plant Biotechnology, IARI, PUSA, New Delhi
6. Dr. (Mrs) Shailaja Hittalmani, Head, Dept. of GPB, UAS, Bengaluru
7. Dr. V. V. Shenoy, Head (Biotechnology), Kaveri Seeds, Secunderabad

AWARDS

The Steering committee has decided to Institute the following awards in the name of Dr. S. W. Mensinkai Memorial Education and Research Foundation as:

1. **Life Time Achievement Award** : This award will be given to the individuals with immense contribution in the field of Genetics and Cytogenetics; expert committee will nominate a suitable person who will be awarded during conference.
2. **Young Scientist Award** : Young Scientists (6 numbers) with best research contributions in field of Plant Genetics, Cytogenetics and Breeding will be called for oral presentation based on their abstracts and two young scientists will be selected for the final award.
3. **Best Poster Paper Presentation Award** : Two Best poster paper presentation awards will be given in each theme area among the papers presented in the conference

INSTRUCTION TO AUTHORS

The organizers invite abstracts from persons who are engaged in research work pertaining to above thematic areas. Abstracts will be evaluated by a group of eminent professionals for their suitability for acceptance. Authors are requested to specify the relevant thematic area in which the abstract needs to be considered. The research paper/abstract typed (MS word) in double space in A4 size paper with Times New Roman 12 font size may be submitted. The abstracts should contain title, names of authors, affiliation, e-mail, key words. The participants are requested to submit an abstract (not more than 500 words) along with the Registration Form to the Organizing Secretary through e-mail: ncgc2016@uasd.in The registration is compulsory for acceptance and publication of abstracts (only two abstracts per registration). The accepted full length papers will be published in a special issue of Karnataka Journal of Agricultural Sciences (KJAS).

Poster sessions : For all thematic areas poster sessions (posters of 1 x 1 m) will be organized simultaneously on first day of conference

Important Deadlines

| | |
|---|--|
| Submission of Abstracts : December 15, 2015 | Receipt of Full Length Papers : December 30, 2015 |
| Last date of registration : January 15, 2016 | Accommodation Request : January 15, 2016 |

REGISTRATION

| Category | Indian delegates Amount (In Indian rupees) | | Foreign delegates In US Dollars(USD) | |
|---------------------|--|----------------------|---|----------------------|
| | Till Jan. 15, 2016 | Spot registration | Till Jan. 15, 2016 | Spot registration |
| Faculty / Delegates | 3000 | 4000 | 100 | 125 |
| RA / SRFs | 2500 | 3500 | 75 | 100 |
| Students | 2000 | 3000 | 50 | 75 |
| Accompanying Member | 2000 | 3000 | 50 | 75 |
| Corporate Members | 5000 | 6000 | — | — |

Registration for the conference can be made by paying registration fees as detailed above through Demand Draft drawn on any nationalized bank in favor of "The Comptroller, UAS, Dharwad" payable at Dharwad or online payment may also be made to SBI Account No. 10025445154, IFSC code: SBIN0003151 MICR code: 580002304, STATE BANK OF INDIA, UAS, Dharwad, Email: ncgc2016@uasd.in

The Registration fee covers souvenir booklet, breakfast, lunch and dinner.

ACCOMMODATION

Accommodation for limited number of out station delegates is available on first cum first serve basis at UAS, Dharwad guest house. However, the delegates can also make their own arrangements in the private hotels.

| SN | Hotel | Contact Number | SN | Hotel | Contact Number |
|----|------------------|--|----|------------------------|------------------------------------|
| 1. | Mayur Aditya | Cell: 7026643725 Phone: +91-836-2461701 www.mayur-resort.com | 5. | Indraprastha Residency | Phone: +91-836-2446944, 2446945 |
| 2. | Kamat Yatriniwas | Cell:9686697775 9008556675 Phone: +91-836-2461161 Fax: +91-836-2461134 www.kamatyatri.in | 6. | Karnataka Bhavan | Phone: +91-836-2442261 2443172 |
| 3. | Ankita Residency | Phone: +91-836-2748333, 2742333 www.ankitaresidency.com | 7. | Hotel Mandar Regency | Phone: +91-836-2444420 |
| 4. | Hoysala | Phone: +91-836-2445627, 2445628 | 8. | Hotel Travel In | Phone: +91-836-2464848 |

THE VENUE

Hubballi-Dharwad twin cities in Northern part of Karnataka state are located about 425 km northwest of Bengaluru, on the National Highway-4 between Bengaluru and Pune. Spread over seven small hills at an average altitude of 750 meters above mean sea level, the city enjoys a salubrious climate amidst thick vegetation. Dharwad is known as Chhota Mahabaleshwar due to its excellent climate throughout the year. Temperatures are fairly moderate from late October to early February (25-28°C, with no rainfall). Dharwad is famous for its contributions to Indian classical music and Kannada literature. It has prestigious educational institutions.

Dharwad is well connected by road, rail and air. Nearest domestic Airports are located at Hubballi about 20 km away towards south of Dharwad and Belgaum about 70 km away towards north of Dharwad. Hubballi is an important railway junction with connectivity of trains to Mumbai, Pune, Jaipur, New Delhi, Howrah, Bengaluru, Hyderabad, Vishakapatnam, Ahmedabad, Vijayawada, Tirupati, Thiruvananthapuram, Chennai etc. Goa is the nearest tourist place (about 180 km from Dharwad). Other nearest places of tourist attraction are Vijayapura (200 km) famous for Golgumbaz (world's second largest whispering gallery), Almatti Dam with garden (220 km), Kudala Sangam (200 km), Aihole and Pattadakallu (180 km; having sculptures of Chalukyan period of national heritage) and Badami caves (150 km).

Post Conference Tour

Post conference tour will be outsourced on 4th Feb, 2016 to (two places)

1. Goa 2. Badami, Aiohole and Pattadakallu. Interested participants may indicate their preference.

NATIONAL ORGANIZING COMMITTEE

Patrons

- ◆ Dr. D. P. Biradar, Vice Chancellor and President (SWMF), UAS, Dharwad
- ◆ Dr. M. S. Swaminathan, Founder Chairman, MSSRF, Chennai
- ◆ Dr. S. Ayyappan, Secretary, DARE and Director General, ICAR, New Delhi
- ◆ Dr. R. S. Paroda, Chairman, TAAS, IARI, New Delhi
- ◆ Dr. J. V. Goud, Former Vice Chancellor, UAS, Dharwad

Members

- ◆ Dr. J. S. Sandhu, DDG (Crop Science), ICAR, New Delhi
- ◆ Dr. Ashok Dalwai, IAS, Addl. Secretary, Dept. of Agriculture & Co-operation, New Delhi
- ◆ Shri P. B. Ramamurthy, IAS, Add. Chief Secretary, Water Resources, GOK, Bengaluru
- ◆ Dr. R. R. Hanchinal, Chairman, PPV&FRA, New Delhi
- ◆ Dr. M. Mahadevappa, Former Vice Chancellor, UAS, Dharwad
- ◆ Dr. S. A. Patil, Former Vice Chancellor, UAS, Dharwad
- ◆ Dr. J. H. Kulkarni, Former Vice Chancellor, UAS, Dharwad
- ◆ Dr. P. M. Salimath, Vice Chancellor, UAS, Raichur.
- ◆ Dr. H. Shivanna, Vice Chancellor, UAS, Bengaluru
- ◆ Dr. C. Vasudevappa, Vice Chancellor, UAHS, Shivamogga
- ◆ Dr. D. L. Maheswar, Vice Chancellor, UHS, Bagalkot
- ◆ Dr. S. K. Datta, Pro-Vice Chancellor, Shantiniketan (WB)
- ◆ Dr. P. K. Gupta, Hon. Professor, CCS University, Meerut
- ◆ Dr. A. R. Sadananda, CIMMYT, Hyderabad
- ◆ Dr. Rajeev Varshney, ICRISAT, Hyderabad
- ◆ Dr. S. R. Bhat, NRCPB, New Delhi
- ◆ Dr. Manmohan Attavar, Chairman, IAHS, Bengaluru
- ◆ Dr. Usha Zehr, Chief Technology Officer, MAHYCO, Mumbai
- ◆ Dr. V. V. Shenoy, Biotechnology, Kaveri Seeds, Secunderabad

Local Organizing Committee

- ◆ **Chairman** : Dr. D. P. Biradar, Vice Chancellor, UAS, Dharwad & President of Foundation (SWMF)
- ◆ **Co-Chairman**: Dr. R. S. Giraddi, Dean (Agri), College of Agriculture, Dharwad & Vice President (SWMF)
- ◆ **Organizing Secretary** : Dr. S. T. Kajjidoni, Head, (Genetics & Plant Breeding), UAS, Dharwad

Members

- ◆ Dr. B. M. Khadi, Director of Education, UAS, Dharwad
- ◆ Dr. B. B. Hosamani, Registrar, UAS, Dharwad
- ◆ Dr. B. S. Janagoudar, Director of Research, UAS, Dharwad
- ◆ Dr. C. S. Hunshal, Dean (PGS), UAS, Dharwad

- ◆ Dr. V. I. Benagi, Director of Extension, UAS, Dharwad
- ◆ Dr. S. L. Madiwalar, ADR (HQ), UAS, Dharwad
- ◆ Shri R. B. Hanji, Comptroller & Administrative Officer, UAS, Dharwad
- ◆ Shri M. D. Hongal, Estate Officer, UAS, Dharwad
- ◆ Shri B. S. Kyatanagoudar, Joint Secretary (SWMF)
- ◆ Dr. A. S. Prabhakar, MC member (SWMF)
- ◆ Dr. U. G. Nalawadi, MC member (SWMF)
- ◆ Dr. S. K. Deshpande, General Secretary (SWMF) and Prof & Head (GPB), AC, Dharwad
- ◆ Dr. S. S. Angadi, Secretary (SWMF)
- ◆ Shri S. B. Sadhani, MC member (SWMF)
- ◆ Shri M. M. Mailar, MC member (SWMF)
- ◆ Shri V. R. Mathapati, MC member (SWMF)
- ◆ Shri L. H. Patil, MC member (SWMF)
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- ◆ Dr. P. R. Dharmatti, MC member (SWMF)
- ◆ Dr. H. Basavaraj, MC member (SWMF)
- ◆ Dr. B. S. Yenagi, MC member (SWMF)



Statue of Late Dr. S.W. Mensinkai, Founder Principal, College of Agriculture, UAS, Dharwad

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Registration Form

Name of the participant _____ Sex : _____ Age : _____

Designation (Staff/Student) _____

Address (With Pin code) _____

Mobile No. _____ E-mail _____ Ph. No.: _____

Theme Area _____

Title of Abstract _____

Payment details: Registration Fee Rs. /USD: _____ Online Receipt
number and date _____ Demand draft number, Name of the bank and date

Accommodation required : Yes / No

Date:

Signature

Place:

**Pl. note: The duly filled in registration form along with a copy of online/Bank draft
payment receipts may please be sent to**

Dr. S. T. Kajjidoni

Organizing Secretary & Head (Genetics & Plant Breeding)

National Conference on "Genetics and Cytogenetics", University of Agricultural Sciences,
Dharwad-580005, Karnataka, India. E-mail: ncgc2016@uasd.in

Phone : 0836-2744977 (M): 09448981556, 09448214978

For more details visit : <https://sites.google.com/a/uasd.in/ncgc-2016>