



# Plant Breeding & Genetics Society Department of Genetics & Plant Breeding College of Agriculture

G. B. Pant University of Agriculture & Technology, Pantnagar

Presents

## National Symposium

# Remembering Gregor Johann Mendel on his Bicentennial Birth Year

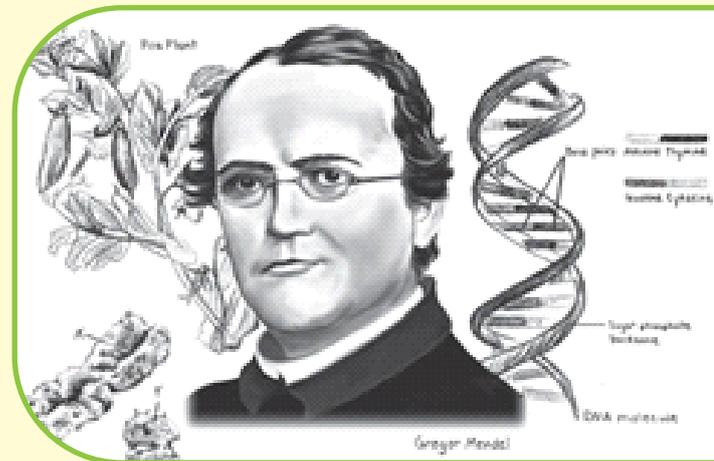
**Theme: From Scratch to Factor to Gene to Genome**

### Sub-Themes:

1. Life and Works of Mendel
2. Pre-Mendel Era
3. Fate of Genetics without Mendel – An Imagination
4. Rediscovery of Mendel's Laws and Classical Genetics
5. Developments in Population Genetics
6. Molecular Concepts of the Gene and Beyond
7. Evolution in Breeding Methods and Seed Production
8. Plant biodiversity and IPRs
9. Climate Resilience and Genetic Plasticity
10. Future of Genetical Research & Applications

### Dates to Remember

- Receipt of abstract : March 20, 2022
- Acceptance of abstract: March 27, 2022
- Receipt of Registration Form : March 1, 2022
- Receipt of Full Paper : April 30, 2022
- Conference : May 5-6, 2022
- Post Conference Tour : May 7-8, 2022



Click here to Register: <https://forms.gle/MXgSG2YcrZRchr6YA>

Note: Attached is the complete circular for National Symposium

Contact us: [mendelsympo2022@gmail.com](mailto:mendelsympo2022@gmail.com)

Salil K. Tewari  
Head  
Genetics & Plant Breeding

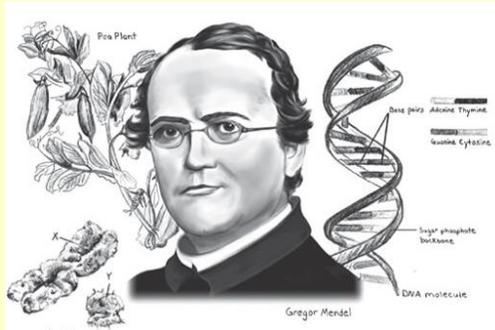
Dr. S. K. Kashyap  
Dean  
College of Agriculture

# National Symposium

**Remembering Gregor Johann Mendel on his Bicentennial Birth Year  
(From Scratch to Factor to Gene to Genome)**

**Mode: Hybrid Mode**

**May 5-6, 2022 (Thursday - Friday)**



**Plant Breeding & Genetics Society  
Department of Genetics & Plant Breeding  
College of Agriculture  
G.B. Pant University of Agriculture & Technology  
Pantnagar -263 145 (Uttarakhand)**

## Preamble

In the 19<sup>th</sup> century, it was commonly believed that an organism's traits were passed on to offspring in a blend of characteristics 'donated' by each parent. Heredity was poorly understood and the concept of a gene did not exist at all. However, Austrian monk Gregor Johann Mendel was unconvinced with traditional explanations of how traits were passed from one generation to another.

Between 1856 and 1863, Mendel decided to generate information on heredity, with the assistance of the humble garden pea. Among the many species on which Mendel worked, he selected pea because the plants and seeds have a wide array of distinct features that occur in two easily identifiable forms. When crossing plants of purple flower pea with white one, he noted in the first generation, only purple flower. Upon selfing these hybrids, he was astonished to get three types of plants: one with purple flower, one with white flower and the third kind had both purple and white flower.

In 1900, three European botanists – Hugo De Vries (Holland), Carl Correns (Germany) and Erich Von Tschermak (Austria) were independently carrying out heredity research themselves and uncovered Mendel's findings.

Mendel's memoir remained largely unknown until 1900, when his 'laws' (plural instead of singular) were rediscovered. Bateson's 1902 book was a key event, because it showed that Mendel's first law (the law of segregation, applying to just one character) applied not only to plants but also to animals.

For his notable discovery on heredity of traits in pea, Gregor Johaan Mendel unanimously remembered as Father of Genetics worldwide who was born in 1822 and fortunately we are in proper time of 2022 when 200<sup>th</sup> birth year of Mendel falls. Plant Breeding & Genetics Society has decided to mark 200<sup>th</sup> birthday of Mendel by organizing National Symposium at the land of Green Revolution and first farm University of the country, GBPUA&T, Pantnagar.

## **Theme: From Scratch to Factor to Gene to Genome**

### **Sub-Themes:**

- 1. Life and Works of Mendel**
- 2. Pre-Mendel Era**
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### **About Pantnagar**

After independence, development of the rural sector was considered the primary concern of the Government of India. In 1949, with the appointment of the Radhakrishnan University Education Commission, imparting of agricultural education through the setting up of rural universities became the focal point. Later, in 1954 an Indo-American team led by Dr. K.R. Damle, the Vice-President of ICAR, was constituted that arrived at the idea of establishing a Rural University on the land-grant pattern of USA. As a consequence a contract between the Government of India, the Technical Cooperation Mission and some land-grant universities of USA, was signed to promote agricultural education in the country. The US universities included the universities of Tennessee, the Ohio State University, the Kansas State University, The University of Illinois, the Pennsylvania State University and the University of Missouri. The task of assisting Uttar Pradesh in establishing an agricultural university was assigned to the University of Illinois which signed a contract in 1959 to establish an agricultural University in the State. Dean, H.W. Hannah, of the University of Illinois prepared a blueprint for a Rural University to be set up at the Tarai State Farm in the district Nainital, UP. In the initial stage the University of Illinois also offered the services of its scientists and teachers. Thus, in 1960, the first agricultural university of India, UP Agricultural University, came into being by an Act of legislation, UP Act XI-V of 1958. The Act was later amended under UP Universities Re-enactment and Amendment Act 1972 and the University was rechristened as Govind Ballabh Pant University of Agriculture and Technology keeping in view the contributions of Pt. Govind Ballabh Pant, the then Chief Minister of UP. The University was dedicated to the Nation by the first Prime Minister of India Pt Jawaharlal Nehru on 17 November 1960.

From then, first agricultural university of India, G.B. Pant University of Agriculture and Technology, serving the country. Noble Laureate Dr. N.E. Borlaug rightly called Pantnagar University as Harbinger of Green Revolution in India. Department of Genetics & Plant Breeding has been always rated a leading section due to its outstanding contributions.

## Department of Genetics & Plant Breeding

Inception of Department of Plant Breeding was held in 1960 with the aim to impart teaching, research and extension in plant breeding (name transformed to Department of Genetics and Plant Breeding in 1976). The department has played a pivotal role in ushering the Green Revolution in India by developing landmark varieties of wheat, rice, maize, pulses, oilseeds, forage, sugarcane and other crops. Till now, over 300 varieties have been developed and commercially released in various crops. Fourteen crop varieties have been ranked as “Land-Mark Varieties” at the country level. Department facilitated registration of 3 farmers Varieties with the PPV&FRA. One of the most outstanding impacts of the breeding programme has been the massive seed production of various crops and “*Pantnagar Seeds*” is the most popular brand among the farmers of the country.



The Department has well-knit under graduate (U.G.) and post graduate (P.G.) programmes with updated and modern course curricula as per the ICAR guidelines. A broad range of carefully designed courses complimented by lectures in other departments appropriately address the academic needs of the students. The Department has excellent facilities for teaching various courses in Genetics & Plant Breeding, Biotechnology and Seed Technology as required for undergraduate and post-graduate degree programmes. Department has been graced by distinguished faculty, four faculty members have been honored with NAAS Fellowship. Excellent facilities for the thesis and research to students are available in the major crops. There are 12 well-equipped laboratories in the department for teaching and research work. Currently in addition to 13 All India Coordinated Research Projects (ACRIP) on different crops funded by ICAR and 9 *ad-hoc* projects funded by different funding agencies *viz.*, DBT, DST, ICAR, NBPGR, DAC/PPV&FRA, CGIAR, NOVOD etc. are under implementation.

### Vision:

To impart quality education in the field of Genetics & Plant Breeding to UG and PG students and to develop high yielding crop varieties with biotic, abiotic stress resistance, climate resilient and high quality.

### MISSION

- To impart quality teaching in Genetics and Plant Breeding related subjects in UG and PG levels.
- To guide quality research to M.Sc. and PhD students in the field of Genetics & Plant breeding.
- To collect, evaluate, maintain and characterize the genetic resources of field crops
- To evolve superior varieties / hybrids of different crops with high yield, quality, biotic and abiotic stresses using classical and molecular tools
- To ensure quality seed production of seed chain of notified varieties
- To impart capacity building to the students and farmers through trainings and guidance.

### Invitation

We have immense pleasure in inviting you to National Symposium to remember GJ Mendel on his Bicentennial Birth Year. You are cordially invited to participate and contribute for the success of this event. We solicit your kind cooperation in addressing whole era of 200 years from the birth of GJ Mendel till date.

**Organizing Secretary**  
Salil K. Tewari  
Head, Genetics & Plant Breeding

**Organizing Committee**

A.K.Singh  
Virendra Singh  
Ravindra Kumar  
B.B. Bandyopadhyay  
J.P. Jaiswal  
Indra Deo

S.K. Verma  
P.S.Shukla  
A.S.Jeena  
M.K. Nautiyal  
N.K. Singh  
Birendra Prasad

P.K. Pandey  
D.C. Baskheti  
M.K.Karanwal  
Anju Arora  
Swati  
Anil Kumar  
Usha Pant

**Registration / Sponsoring Fee (INR):**

Registration can be done by sending DD OR through NEFT :

Name - Plant Breeding & Genetics

Account No.- 4446000100016477

IFSC: - PUNB0444600

Bank & Branch - Punjab National Bank, PANTNAGAR

Participation Mode	Student (INR)	Scientists(INR)	Corporate Personnel (INR)	Qualify for
On-line	1000	2000	2500	<ul style="list-style-type: none"> <li>On-line Presentation / participation</li> <li>Souvenir as soft copy</li> <li>Award / participation certificate</li> </ul>
Off-line	2000	4000	5000	<ul style="list-style-type: none"> <li>Live Presentation / participation in all events</li> <li>Registration kit /Souvenir</li> <li>Award / participation certificate</li> </ul>
<b>Sponsorship / Contribution / Donations (INR)</b>				
Payment of students' Registration/ Support to your Own Department			11,000 or more	<ul style="list-style-type: none"> <li>Registration inclusive</li> <li>Depiction in the Souvenir</li> <li>Due Acknowledgement</li> </ul>
Sponsoring the Registration kit			100000	
Sponsoring the Mementoes			50000	
Sponsoring the High-Tea			100000	
Sponsoring Lawn Lunches (2) each			150000	
Sponsoring the Gala Dinner (1)			200000	

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**Call for Papers**

The organizing Committee of the National Symposium cordially invites papers on the above topics in the thematic areas for consideration in oral/ poster presentations under respective technical sessions, during the conference. Preference will be given to the Ph.D. scholars.

### **Lead Keynote Lectures**

Eminent academicians will be invited to deliver keynote lectures on topics related to different technical sessions of the conference and the same will be published.

### **Oral papers**

Among the abstracts accepted, 8-10 selected papers will be considered for oral presentations under each of the technical sessions. Each oral presentation would be allotted 8-10 minutes.

### **Poster Papers**

Selected papers are need to be prepared and presented in PPT format. Presentations will be of 3 minutes and 2 minutes for the discussion.

### **Submission of Abstract**

Abstracts are to be submitted to [mendelsympo2022@gmail.com](mailto:mendelsympo2022@gmail.com) as Microsoft Word file. Authors should specify the sub-theme in which they would like to consider the papers. The abstract(s) of the contributed papers should not exceed 300 words in 12 font size in Times New Roman with 1.25 line spacing. The full length papers should not exceed 10 pages in as. Abstracts will be published in the Souvenir / Abstract book.

### **Paper Presentation / Poster Awards**

The good quality oral and poster presentations will be selected by the jury of eminent scientists in each session and will be awarded with plaque of honour and certificate by the organizers.

### **Accommodation**

Accommodation shall be provided in guesthouses of the university. Delegates may opt for their stay in hotels in Rudrapur (Udham Singh Nagar). Please confirm your participation and itinerary by sending e-mail to [mendelsympo2022@gmail.com](mailto:mendelsympo2022@gmail.com). The organizers will facilitate the reservation of the accommodation as desired by delegates, by booking in advance. This facility will be provided to registered delegates only.

### **Cultural Programme**

A cultural programme with the theme of our culture and values shall be organized for the leisure and entertainment of the delegates in the evening of May 05, 2022.





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**REGISTRATION FORM**

Name.....Designation.....

Address .....

..... Pin.....

Mobile.....E-mail.....

Delegate Registration / Sponsor / Other: .....Mode: On-line / Off-live (in Person)

Title of the Abstract: .....

Sub-Theme .....Presentation (oral/ poster).....

Choice of Accommodation: University Guest House / Hotel

Kindly do my registration as delegate / sponsor to the symposium.

Registration fee / Sponsorship INR. ....

DD / NEFT; Receipt / Transaction no..... dated.....

(Signature)

Place .....

Date: .....

Note: NEFT / DD may be done to A/C Name - Plant Breeding & Genetics;  
A/c No. 4446000100016477 IFSC – PUNB0444600; Punjab National Bank, PANTNAGAR

Submit to: Dr. Salil K. Tewari, Organizing Secretary/ Head,  
Department of Genetics & Plant Breeding, College of Agriculture, G.B. Pant University of  
Agriculture & Technology, Pantnagar, U.S. Nagar (Uttarakhand)  
Email: mendelsympo2022@gmail.com