

Report of

**NATIONL WORKSHOP ON GENETICS**

**CELEBRATING 100 YEARS OF SCIENTIST**

**Dr. G N RAMCHANDRAN & Dr. H G KHORANA**

Submitted to

**The DIRECTOR**  
**VIGYAN PRASAR**  
Technology Bhawan , New Delhi

Submitted By

**SoS of ANTHROPOLOGY**

**Pt. RVISHANKAR SHUKLA UNIVERSITY, RAIPUR (C.G.)**

**&**

**CHHATTISGAH VIGYAN SABHA**  
**Shankar Nagar, RAIPUR**

**National workshop  
on  
GENETICS, Celebrating 100 years of scientist Dr. G N  
Ramchandran and Dr. H G Khorana.**

**BACKGROUND :** On our joint request Vigyan Prasar, by its letter no. VP/SciCom/3006/Centenarian-Genetics/2023 Dated : March 14, 2023 sanctioned our proposal to organize a National Workshop on Genetics to celebrate 100 years of scientist Dr. G N Ramchandran and Dr. H G Khorana. After receiving it, we have requested science communicators to participate in this workshop all over the country. Parallel to it, we have tried number of resource persons to deliver lectures and presentations during this workshop resulting a good participation from all over the India.

**VENUE OF THE WORKSHOP :** Seminar Hall, Arts Block of Pt. Ravishankar Shukla University, Raipur (C.G.) of the capacity of 150 participants .

**INAUGURAL SESSION :** Dr. K Subramaniam IFS, member of State Planning Commission, Chhattisgarh and former Director General of Chhattisgarh Council of science and Technology has inaugurated the National Workshop on the morning of 25<sup>th</sup> march 2023. The inaugural session has presided by honorable Vice Chancellor Prof. Kesari Lal Verma of the host Pt. Ravishankar Shukla University, Raipur (C.G.). Former Vice Chancellor of PRSU Prof. S K Pandey, Senior Scientist from Vigyan Prasar Dr. T V

Venketeshwaran, resource person from Kolkata University Dr. Arunabh Mishra and resource person from Bhopal Dr. S R Azad have associated as the special Guest in the inaugural session. Dr. Ashok Pradhan, Professor and Head, School of Studies in Anthropology, Pt. Ravishankar Shukla University (C.G.) has given welcome speech just after candle lighting on the portrate of Gregore Mendel, Dr. GN RamchanDr.an and Dr. HG Khorana.

In his inaugural speech Chief Guest Dr. K Subramanium explained in a simple manner the works of Gregor Mendel on the different trends on pea plants. He has explained the historical development of genetics from Gregore J Mendel to current developments. He told that Dr. H G Khorana, who studies chemistry in M. Sc. and Ph.D. in Organic Chemistry has developed synthetic gene in a bacteria. His basic work is pathfinder and use by modern scientists in genetics. He imphasis that we are advancing from GENETICS to GENEMIX structures. Today we are using genetic breakup in the chemotherapy to treat cancer disease. He appeal to the participants to disseminate knowledge of Genetics among common people.

In his presidential speech Vice Chancellor Prof. Kesari lal Verma thanks to Vigyan Prasara to provide opportunity to organize this workshop at this University. He said that our scientists has played very important role in the development of nation. Professor RamchanDr.an and Dr. Khorana are one of them

who have done excellent work in the field of Genetics. He gives emphasis on dissemination of knowledge of modern findings of science in our own languages. He explained his role to publish so many books in local languages when he has posted in Commission for Scientific and Technical Terminology of Government of India. Joint Secretary of Chhattisgarh Vigyan Sabha Mr. Anupam Jopher has delivered vote of Thanks to all the guests and participants.

## **DETAILS OF TECHNICAL SESSIONS**

**25.03.2023 (First Day)**

A. Registration : 10.00 am to 11:00 am

B. Inaugural Session : 11.00 am to 12:00 Noon

Inauguration by Chief : Dr. K. Subramaniam, IFS, Member, State Planning Commission

Chaired by : Prof. Keshri Lal Verma Verma, Vice Chancellor, Pt. Ravishankar Shukla University, Raipur (C.G.)

Special Guests:

1. Dr. T. K. Venketeshwar, Senior Scientist, Vigyan Prasar, DST, New Delhi
2. Dr. M.L. Naik, President, Chhattisgarh Vigyan Sabha
3. Dr. S. K. Pandey, Former Vice Chancellor, Pt. Ravishankar Shukla University, Raipur
4. Dr. Arunabha Mishra, Vidyasagar College, Kolkata
5. Ms. Asha Mishra, Senior Science Activist, AIPSN

Welcome Address : Dr. Ashok Pradhan, Professor & Head, SoS in Anthropology, Pt. RSU, Raipur

Addressed by : Dr. K. Subramaniam, IFS, Member, State Planning Commission

Addressed by Chair Person : Prof. Keshri Lal Verma Verma, Vice Chancellor, Pt. Ravishankar University, Raipur (C.G.)

Vote of Thanks : Anupam Jofer, Joint Secretary, Chhattisgarh Vigyan Sabha

Break for Tea

**12:00 Noon to 01:00 pm**

**Technical Session I : Evolution and development of Genetics**

Chairperson : Ms. Nidhi Singh, Joint Secretary, Chhattisgarh Vigyan Sabha

Speaker : Dr. T V Venkateswaran (Vigyan Prasar) – **Mendel, heredity and emergence of Genetics**

Speaker: Dr. Prabha Chaudhary (Indira Gandhi Krishi Vishvavidyalay) - **Basics of Genetics and its Historical development**

**MENDEL, HEREDITY ORIGIN OF GENETICS** : Dr. T. V. Venkateshwaran with using a very attractive and informative PPT, Dr. T.V. Venkateshwaran explained the story of Mendel's rule of hereditary. He has shown the chronological development of genetics slide by slide and the final/status, we are experiencing now-a-day. Many questions have asked by participants. Dr. T. V. Venkateshwaran replied and has satisfied them by his wiseful answers.

**BASICS OF GENETICS** : Prof. Prabha Choudhary from Indira Gandhi Krishi Vishvavidyalay has delivered a beautiful lecture on the subject "Basics of Genetics". She shown lots of slides by which she explained the basic principles of science. She has also explains answers of different questions asked by participants.

Question & Answer

Vote of Thanks : Dr. Sunil Kumar Sahu, Vice President, Chhattisgarh Vigyan Sabha

**1.30-2.00 pm : LUNCH**

**02:00 pm to 03:30 pm**

**Technical Session II : Human Evolution**

Coordinator : Anju Meshram, Treasurer, Chhattisgarh Vigyan Sabha

Speaker : 1. Dr. Parthib Basu (Calcutta University) – **Darwin and his theory of Human Evolution (Online)**

2. Prof. M.L. Nayak, Former Head, Life Science, Pt. Ravishankar Shukla University, Raipur - **"Extra nuclear inheritance"**

**Darwin and his theory of Human Evolution (Online)** : Prof. Parthib Basu has brief the details of Darwin's Theory of Evolution. By presenting under of slides. He has explained development of Evaluation step by step.

**Extra nuclear inheritance** : Prof. M.L. Nayak the president of Chhattisgarh Vigyan Sabha and former Professor of Life Science at Pt. Ravishankar Shukla University, Raipur (C.G.) in his very attractive lecture. He has explained evolution and mutation. His lecture was very formative and people listen it with pin drop silence. He has given answers of lot of question.

Question & Answer

Vote of Thanks: Dinesh Kumar, Chhattisgarh Vigyan Sabha

**03:30 to 04:20 pm**

**Technical Session III : Dr. H G Khorana Memorial Lecture**

Chairperson : Anamika Chakrawarty, Chhattisgarh Vigyan Sabha

Speaker : Dr. Sagarmoy Ghosh, Prof. (Calcutta University) :  
**Biotechnology and Genetic Engineering for the people :  
issues and challenges**

Question & Answer

Vote of Thanks: Uma Prakash Ojha, Chhattisgarh Vigyan Sabha

**4.20 – 5.10 pm**

**Technical Session IV : G N Ramachandran Memorial Lecture**

Chairperson : Shri H. N. Tandon, C.G. Vigyan Sabha

Speaker: Dr. S Krisnaswamy (Former Prof. Madurai Kamaraj  
University, Visiting Prof. Inst. Of Mathematical Science) – **G N  
Ramachandran and his contribution in Biology**

Question & Answer

Vote of Thanks: Dipankar Bhowmic

**26.03.2023 (Second Day)**

**10:00 – 11:30 am**

**Technical Session V : Genetics and Society**

Chairperson : Dr. Laxmikant Chawre, CBS, Pt. RSU, Raipur

Speaker: Dr Arunabha Misra (Vidyasagar College, C U) : **Myth  
related to Evolution and Genetics**

Speaker: Dr. Ashok Pradhan (Pt. RSU, Raipur) - **Common Genetic  
Diseases**

Vote of Thanks: Dr. Nandkumar Chakradhari, Pt. RSU, Raipur



### **11.45 am - 1.15 pm**

Valedictory Session: –Summing up and Planning for future

Panellists : Prof. Ashok Pradhan Vishwas Mishram, Asha Mishra, Dr. T V Venkateswaran, Arunabha Misra, etc

Participants view -

Organisers view -

Take home task and future activities-

## **List of Participants**

1. Sudesh Ghoderao, Maharashtra
2. Sheela Ghoderao, Maharashtra
3. Arun Kumar - M - 62 SFS, Jharkhand
4. Anant nath Giri - M - 19 SFS, Jharkhand.
5. Arun Kumar, BGVS Jharkhand
6. Sheishankar Prasad, BGVS Jharkhand
7. Birju prasad, BGVS Bihar
8. Ravi kumar, BGVS Bihar
9. Santosh Kar m 45 , BGVS Orisha
10. Niranjana Mali M 48, BGVS Orisha
11. Biratraj pradhan M 46, BGVS Orisha
12. Dhiraj Goswami, Ellora vigyan Mancha
13. Julhash uddin Ahmed, GVS Assam
14. Musaddik Ahmed, GVS Assam
15. Milan Gain, PBVM, West Bengal
16. Dr P.N.Verma, MPVS
17. Ashish Pare, MPVS
18. E. Basavaraju, KRVP
19. H K S Samay, KRVP
20. Vijay Pal M 36 , BGVS Uttar pradesh
21. Suneeta F 40, BGVS Uttar pradesh
22. Pushpa F 32, BGVS Uttar pradesh
23. Satbir Nagal, Hariyana Bigyan Manch
24. Chitra Singh, F, Hariyana Bigyan Manch
25. Rajender Agnihotri, Haryana GVS
26. Ms. Suraj.Haryana GVS
27. Dinesh Nagar, MP BGVS

28. Shilpa Jain, F, MP BGVS
29. Afjal, MP BGVS
30. Tohiq Ahmed, BGVS, Uttarakhand
31. Dr. Raseena NR, Dept.of Bot,KU,Kssp
32. Anju.H,Dept.of Bot,KU,Kssp
33. Ravi Shankar S, BGVS Karnataka
34. Nalini, Tnsf
35. Balusamy S, Tnsf
36. S R Azad, treasurer, Organiser
37. T V Venkateswaran, VP
38. Parthib Bose, Aipsn, CU (online)
39. Sagarmoy Ghosh, CU
40. Prabha Chaudhary, IGKB
41. S Krishnaswamy,IMS,
42. Asoke Pradhan, RU
43. M L Naik, Ex RU, CVS,Organiser
44. Viswas Mishra, CVS, Organiser
45. Nidhi Singh, CVS, Organiser
46. Arunabha Misra, Organiser
47. Asha Mishra, Organizer
48. Aayush Agrawal
49. Aditi Agrawal
50. Ankita Pradhan
51. Astha Verma
52. Atul Kumar Jaiswal
53. Bindiya Nayak
54. Chunni Nishad
55. Dashrath

56. Dilip Yadav
57. Gulshan
58. Hemanjali Kannouje
59. Jayshri Ratre
60. Kritika Sahu
61. Mona Garg
62. Monika Purena
63. Narendra Kumar
64. Padmini Sahu
65. Payal Patel
66. Priyanka Shriwastava
67. Ravina
68. Reena Verma
69. Shishupal Bhoi
70. Shristi Ware
71. Sujit Jangde
72. Sushma Pandey
73. Swati Chandrakar
74. Sweta Verma
75. Usha Baghel
76. Vibha Belchandan
77. Yogita Verma
78. Ankit Chandrawanshi
79. Bharti Chandrakar
80. Indrakant Bhuarya
81. Jyoti Sahu
82. Kajal Tiwari
83. Nutan Sahu

84. Pooja Sahu
85. Poorvi Gaharwar
86. Pratibha Tripathi
87. Priti Pradhan
88. Priyanka Nayak
89. Priyanka Sonwani
90. Rajiya Bano
91. Sakshee Nirmalkar
92. Swati Dewangan
93. Tilak Ram Vishwakarma
94. Venkateshwar
95. Yogita Singh
96. Mithlesh Sen
97. Neelam Sahu
98. Nitika Baghel
99. Priya Rani Neti
100. Pukh Raj
101. Usha Sahu
102. Hemant Kumar Joshi
103. Shaila Mukharjee
104. Sunita Sodi
105. Prakash Chandra
106. Vedpradash Dhruw
107. Bhumika Raj Sonwane
108. Oshin Bajrang
109. Ankita Bhoi (S)
110. Ankita Bhoi (J)
111. Sanjana Patel

112. Suneel Kumar Mehta
113. Krishna Kumar Paikra

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## PHOTOGRAPHS



















