Shiv Chhatrapati Shikshan Sanstha's
Rajarshi Shahu Mahavidyalaya (Autonomous), Latur
Department of Biotechnology
A) Summary Report

1)Title of Programme:		**A Lecture Series on Nobel Laureates** Lecture 11: David Julius and Ardem Patapoutian		
2)Name of Organizing Department/Unit:		Biotechnology		
3) Name of the Coordinator(s)/Convener(s)/Organizer(s)oftheProgramme:		Chief Organizer: Dr. M. H. Gavhane Joint Chief Organizer: Prof. S. N. Shinde Convener: Dr. S.S. Kulkarni		
4)Date(s) of the Programme:		12th February 2022		
5)Venue/Mode:		Seminar Hall		
6)Target Group:		B.Sc. Biotechnology Students		
7)Number ofParticipants:		Male	Female	Total
A separate list with signatures be maintained in the department/Unit)	Teaching	00	00	00
	Non-Teaching	00	00	00
	Students	42	68	110
8)Name(s)and details of Resource Person(s), if any:		Miss. Karuna Komatwar, Asst. Prof Dept. of Biotechnology and Food Processing Technology, Rajarshi Shahu Mahavidyalaya (Autonomous), Latur.		
9)Total Expenditure for the Programme:		Nil		
10)Source of Funding:		Not Applicable		

B) Report

i. Title: A Lecture Series on Nobel Laureates
Lecture 11: David Julius and Ardem Patapoutian

ii. Introduction

The ability to detect, process, and react to light, sound, temperature, pressure, and other environmental signals is a necessary and defining characteristic of life. Elucidating the mechanistic basis of these essential processes has occupied many outstanding scientists for centuries. The 2021 Nobel Prize in Physiology or Medicine was awarded to David Julius and Ardem Patapoutian to honor their discovery of the fundamental sensors of temperature and pressure. The Lecture on Nobel Laureate on the topic "Nobel Prize in Physiology and Medicine in 2021" aims to help the students gain knowledge regarding new theories in the field of medicine and physiology. The Lecture on Nobel Laureate was organized by Department of Biotechnology, Rajarshi Shahu Mahavidyalaya (Autonomous), Latur on 12.02.2022

iii. Objectives of the Programme/issues addressed

- To explain the response to heat and touch according to the theories of scientists.
- To conduct interactive session for students with speaker to explain valuable knowledge in the field of medicine and physiology.
- To orient students about the ability to sense and adapt to the environment.
- To promote education and research in Biotechnology.

iv. Details of Participants

110 participants (42 Male and 68 female) attended

v. Brief Summary of Events/Sessions

Department of Biotechnology and Food Processing Technology conducted a series of Nobel Lectures. Ms. K. S. Komatwar conducted a lecture on concept called "Receptors for temperature and touch".

Americans David Julius and Ardem Patapoutian separately identified receptors in the skin that respond to heat and pressure, and researchers are working on drugs to target them. Some hope the discoveries could eventually lead to pain treatments that reduce dependence on highly addictive opioids. But the breakthroughs, which happened decades ago, have not yet yielded many effective new therapies. Julius, of the University of California at San Francisco, used capsaicin, the active component in chili peppers, to help pinpoint the nerve sensors that respond to heat, the Nobel Committee said.

Patapoutian, of Scripps Research Institute at La Jolla, California, found pressure-sensitive sensors in cells that respond to mechanical stimulation. "This really unlocks one of the secrets of nature," said Thomas Perlmann, secretary-general of the committee, in announcing the winners. "It's actually something that is crucial for our survival, so it's a very important and profound discovery. The committee said their discoveries get at "one of the great mysteries facing humanity: how we sense our environment."

Ms. Karuna Komatwar, Asst. Prof. conducted a seminar on Nobel Laureate on the topic "Nobel Prize winner in Medicine and Physiology 2021" so as to make students aware about the new concepts and the way of thinking of scientists in a unique way and gain Nobel prize by their intellectual thinking.

vi. Conclusion, with Feedback on the Programme

The lecture covered the theory behind the topic for receiving Nobel prize to the David Julius and Ardem Patapoutian in 2021. The seminar was beneficial to both UG students of biotechnology and food processing technology which will help them to think in a creative manner that will gloss their future with good opportunities.

vii. Appendix: List of Participants

Date:13/02/2022

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Department of Biotechonlogy
Rajarshi Shahu Mahavidyalaya
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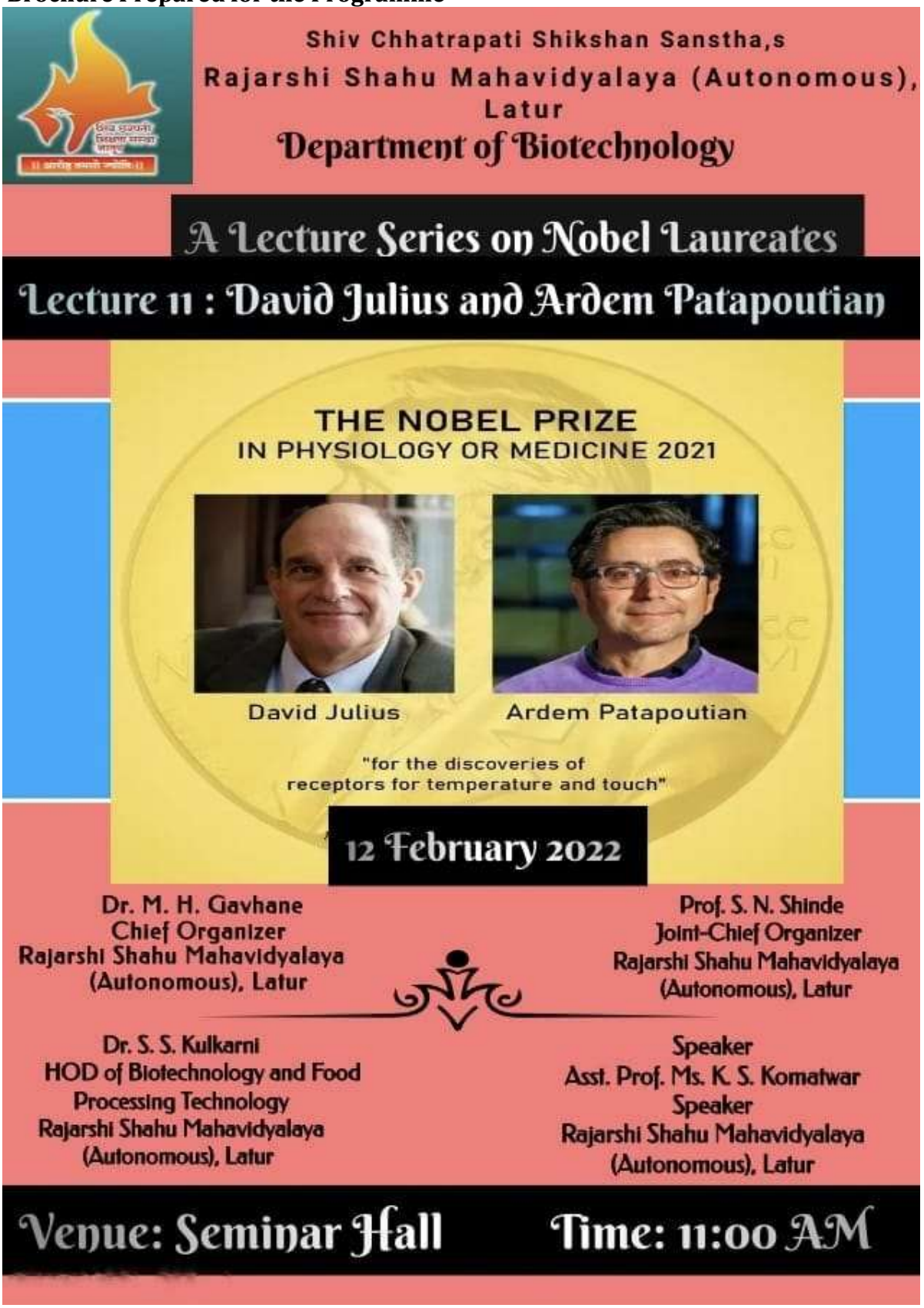
Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)

Principal
PRINCIPAL
Rajarshi Shahu Mahavidyalaya
(Autonomous), Latur

C) Geotagged Photographs/ screenshots:

Ms. Karuna Komatwar, Asst. Prof. of Dept. of Biotechnology and Food Processing Technology, Rajarshi Shahu Mahavidyalaya (Autonomous), Latur is delivering a lecture on Nobel Prize in Physiology and Medicine to David Julius and Ardem Patapoutian in 2021

D) Brochure Prepared for the Programme



Rajarshi Shahu Mahavidyalaya (Autonomous),Latur
Department of Biotechnology
A Lecture Series on Nobel Laureates
Lecture 11: David Julius and Ardem Patapoutian
List of Participants

Sr. No	Name of the Participants	Sign
1	Sancheti Dayanand kalyani	Sancheti
2	Nikita Ashok Tenkale	Nikita
3	Manisha Manohar Birajdar	Manisha
4	kousik Nisha onkush	
5	Kandarphale Abhishek Vaman	Abhishek
6	Dhaygude prithviraj Rajabhau	Prithviraj
7	Mulaykar Mahesh Deepabrao	Mahesh
8	Pallavi Govind Jadhav	
9	Anjali Sunil kamble	Kamble
10	Dnyaneshwari Sayaji Jadhav	Jadhav
11	Renuka Ashok patil	
12	Maheshwari Sanjay Puri	
13	Vaishnavi Gundaji Rupnar	
14	Solanke Tejal shivdas	
15	Rutuja Keshav Gajendra	Rutuja
16	waghmare Priyanka Baban	
17	kawle krutika Balasaheb	
18	Jadhav Rutuja Nandkumar	Jadhav
19	Kolewad Sneha Santosh	
20	Babji Shruti Kishor	
21	kobale prachi karan	
22	Megha giri vikram	
23	saje Mansi Govind	
24	Kuber Aditi Dhananjay	Aditi
25	Deshpande Bhargavi Hemant	Bhargavi
26	Sujata Mahesh Mali	Sujata
27	Supriya Vijaykumar Chounde	Supriya
28	Anketa chandrashekhar Ravikar	
29	Tanaya chandrakant Nalkwadi	
30	Shivani Prabhuling Giram	
31	Patil Gayatri suhas	
32	Bardale Rutuja Baswaraj	Rutuja

33	Mengshetti Vaishnavi Santosh	Vaishnavi
34	Bachke Mohini Deepak	Mohini
35	Shravani Umakant Bapatne	Shravani
36	Mancha Neha Pramod	Neha
37	Korake Gitanjali	
38	Chidrawar Mrunal	Mrunal
39	Gaikwad Ashlesha	Gaikwad
40	Gadekar Malti	Malti
41	Shinde Monika	Monika
42	yogita nitture	yogita
43	Shivpooja Swami	Swami
44	Shruti pande	Shruti
45	Patil Akanksha Mukund	Patil
46	Gaikwad Vaishnavi Harmendsing	Vaishnavi
47	Gadade Rutuja	Rutuja
48	Kamble Durga Yuvraj	Durga
49	Sagar Sonali Sunil	Sonali
50	Rajmane mansi Sanjeev	Mansi
51	Pawar Vaishnavi	Vaishnavi
52	Shinde Sneha	Sneha
53	Mrunal Salunke	Mrunal
54	kalyani Dancheti Dayanand	Dancheti
55	Tenkale Nikita Ashok	Nikita
56	Kousik Nisha Ankush	Nisha
57	Shivpooja Swami	Swami
58	Shruti Pande	Shruti
59	Gadade Rutuja	Rutuja
60	Patel Aliya Sadik	Aliya
61	Mane Vaishnavi Satish	Vaishnavi
62	Anjali Kendre	Anjali
63	Pakhi Gaikwad	Pakhi
64	Shailaja Gaikwad	Shailaja
65	Sanchi Hausalmal	Sanchi
66	shivani kanwate	Shivani
67	Vaishnavi Makne	Vaishnavi
68	Sakshi Patil	Sakshi

69	Biradar omkar vasant	
70	Khot sopan kishan	
71	Naikwade keshav Netaji	
72	Malkude omkar manmathappa	
73	Shinde sandeep rupelit	
74	Ganesh Shyamrao Deulde	
75	Gaikwad Gaurav	
76	Ghelke Digambar Baly	
77	Bhosale Aniket Shivaji	
78	Mane Amol Ramesh	
79	Munde ganesh bhanu	
80	Aditya Venkat Hake	
81	Gutte Suraj	
82	Pithe prajwal	
83	Taglare Bilal	
84	Wagwade Shantanu	
85	Kshirsagar Swapnil Dhanraj	
86	Bucche Sagar	
87	Harde Chaitanya	
88	Prajwal Kamble	
89	Kawadale Vikram	
90	Birdar Mangesh	
91	pathan Aebaj	
92	Bodke chaitanya	
93	Holkar Dinesh	
94	Kulkarni Rushikesh	
95	Kamble Rohan	
96	Pawar Ranjeet	
97	Patil Rushikesh	
98	Abhishek Rathod	
99	Maddewad Rupesh	
100	Mane lokesh	
101	Karande Rohan	
102	Rohit Patil	
103	Aditya. Vaidya	
104	Vishal Pawar	

105	Akshay Pujari	Akash
106	Adde Shubham	Shubham
107	Wangde, Avinash	Avinash
108	Patil Manoj	Manoj
109	Gaikwad Vitthal	Vitthal
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Date: 13.02.2022

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