

SIES COLLEGE OF ARTS, SCIENCE & COMMERCE (AUTONOMOUS), Sion (W)

DEPARTMENT OF BIOTECHNOLOGY

Title: Cellular response to HYPOXIA: In development and diseases

Popular Science Lecture series organized by Indian Women Scientists' Association,
Supported by BRNS-DAE

Day & Date: Saturday, 5th December 2020

Time: 4:00 - 5:30 pm

Objective of the webinar:

1. To understanding the hypoxia condition and its effect on cells and tissue.
2. Hypoxia
3. Role of HIF-1
4. Role of hypoxia in cancer

Resource person: Dr. Sanjeev Shukla, Dean R & D. Associate Professor, DBT/Wellcome Trust Fellow, Department of Biological Sciences, IISER, Bhopal

Participants: 37 Undergraduate and postgraduate students

Platform/Methodology:

The program was conducted using online platform MS Teams. It was followed by question-answers session between the resource person and participants.

Outcome:

The feedback of participants stated that they strongly found the session to be helpful and agreed that the content was relevant to the current scenario.

The program helped them to understand:

1. Hypoxia and its role
2. Hypoxia inducible factors
3. Various disorders associated with hypoxia
4. HIF-1 role in chemotherapy


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Dr. Tara Menon
Co-ordinator
Department of Biotechnology

05.12.2020

Annexures to the report:

Annexure 1: Pictures

4:28 PM Sat 9 Dec Slide 1 of 54

Cellular response to Hypoxia: In development and diseases.

Dr Sanjeev Shukla
Associate Professor & DBT/Wellcome Trust India Alliance Fellow
IISER Bhopal
sanjeevs@iiserb.ac.in

+53 SD MR SA MP KP SK SZ TM SS SY

The impact of altitude on oxygen levels

8,000m
6,000m
4,000m
2,000m
0m

300 400 500 600 700 800
Barometric pressure (mmHg)

Higher altitude
Sea level

2 O₂ (oxygen),
8 N₂ (nitrogen)

Air always contains about 21% O₂ but it is thinner at altitude and more dense at sea level

7 O₂,
28 N₂

Bhopal JN.
BHOHAL JN. بھوپال جن

मुंबई सेंट्रल, मुंबई सेंट्रल
MUMBAI CENTRAL

+56 SD MR SA MP KP SK SZ TM SS SY

HIF-1 α is Regulated by Oxygen-dependent Hydroxylation

NORMOXIA

PHDs = Prolyl Hydroxylase Domain proteins target HIF-1 α for destruction when O₂ is available.

Normoxia

Cellular response to HYPOXIA: In development and diseases by Dr. Sanjeev Shukla

Annexure 2: Attendance record

Timestamp	Email Address	Full Name
12/5/2020 17:36:52	nivitan1428@gmail.com	NIVITA NIRANKARI
12/5/2020 17:37:08	jennifer.nadar18@yahoo.com	Jennifer Francis Nadar
12/5/2020 17:37:23	mihirpradhan45@gmail.com	Mihir Pradhan
12/5/2020 17:37:26	rawatmansi2712@gmail.com	Mansi Rawat
12/5/2020 17:37:36	aarathi.k05022000@gmail.co	Aarathi m kurup
12/5/2020 17:37:41	shivadas.shilpa@gmail.com	Shilpa Sivadas
12/5/2020 17:37:43	pmahajan12345678@gmail.v	Pooja Mahajan
12/5/2020 17:37:44	anishab0209@gmail.com	Anisha Vinay Bhende
12/5/2020 17:38:02	jesalvora99@gmail.com	Jesal Mahendra Vora
12/5/2020 17:38:02	shambhavi.srivastva.16@gm	Shambhavi Srivastva
12/5/2020 17:38:03	mahimashah315@gmail.com	Mahima shah
12/5/2020 17:38:12	gsakshi2401@gmail.com	Sakshi Gupta
12/5/2020 17:38:21	shettyh548@gmail.com	Harshitha Sundar Shetty
12/5/2020 17:38:27	harikrishna.5199@gmail.com	Harikrishna Rajendra Salla
12/5/2020 17:38:32	kunjucuty21@gmail.com	Aishwarya Ramakrishnan
12/5/2020 17:38:34	pillaiqrishma@gmail.com	Grishma Pillai
12/5/2020 17:38:44	bhavishyashetty853@gmail.c	Bhavishya Shetty
12/5/2020 17:38:52	sharanyashankar518@gmail	Sharanya shankar
12/5/2020 17:38:57	afianjeevan30@gmail.com	Afian Perpat Jeevan
12/5/2020 17:38:59	sharventhirik@gmail.com	Sharventhiri
12/5/2020 17:39:10	mahek.parmar2000@gmail.c	Mahek Parmar
12/5/2020 17:39:12	priyanka.tiws@gmail.com	Priyanka tiwari
12/5/2020 17:39:14	susanmar1999@gmail.com	Susan Samuel Martin
12/5/2020 17:39:26	sonammhavale789@gmail.co	Sonam Madhukar Mhavale
12/5/2020 17:39:28	jyothikamurugan01@gmail.co	Jyothika Murugan
12/5/2020 17:39:34	galgaliaarti99@gmail.com	Aarti Pradeep Galgali
12/5/2020 17:39:38	mohapatradhanisha@gmail.c	Dhanisha Mohapatra
12/5/2020 17:39:46	anandbhaskar0409@gmail.c	Anand B
12/5/2020 17:40:08	mahashabdeys@gmail.com	Yukta Sunil Mahashabde
12/5/2020 17:40:39	purna.pahadi8848@gmail.co	Purna Pardeshi
12/5/2020 17:40:43	akib72872@gmail.com	Akib Wahab Shaikh
12/5/2020 17:40:56	bhakti1357@gmail.com	Bhakti Jadhav
12/5/2020 17:41:16	snehaanbalagan0601@gmai	Sneha Anbalagan Dever
12/5/2020 17:41:17	anushkaap9@gmail.com	Anushka Anant Padmanabha
12/5/2020 17:44:59	myarukala@gmail.com	Mamta Yarukala
12/5/2020 17:48:09	dikshugs@gmail.com	Diksha Gajanan Shetti
12/5/2020 17:48:36	gunjanjotkar@gmail.com	Gunjan Sudesh Jotkar



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