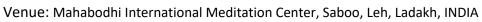


7th International Leh Symposium 2024

Theme: Molecular Mechanisms and Therapeutics of Hypoxic Lung











SCIENTIFIC PROGRAM

Day 1: Sunday, August 4, 2024

Time	Activity
16:00 - 17:00	Registration
16:00 - 17:00	HHS-General Body Meeting
17:00-17:15	Welcome address by Qadar Pasha, Founder & Director, Institute of Hypoxia Research & Hypobaric Hypoxia Society (HHS)

Inaugural Session 1 (Online)

Chairs: Qadar Pasha and Brian Graham

Time	Speaker	Title of Talk
17:15-18:00	Sir Peter J Ratcliffe	Oxygen sensing mechanism that regulates gene expression in
	Nobel Laureate	response to decreases in cellular oxygenation
	University of Oxford, UK	

18:00-18:20	Damian Bailey	Radical' insights into oxygen-sensing by the human brain:
	University of South Wales, UK	Pushing the bioenergetic limits!
18:20-18:25	Discussion	
18:25-18:45	Andrew Murray	Human Metabolic Adaptation to High-Altitude Hypoxia
	University of Cambridge, UK	
18:45-18:50	Discussion	
18:50-19:10	Soni S. Pulamsetti	Hypoxia-Mediated Translational Dynamics: New Discoveries
	Max Planck, Germany	and Perspectives
19:10-19:15	Discussion	
19:15-19:35	Josef Prchal & Jihyun Song	Alternatively spliced NFKB1 causes elevated hemoglobin
	University of Utah, USA	levels in Andean Aymaras
19:35-19:40	Discussion	
19:40-20:00	Tim Lahm	Crosstalk between hypoxia and estrogen signaling in the
	National Jewish Health,	pulmonary vasculature and right ventricle
	Denver, Colorado, USA	
20:00-20:05	Discussion	
20:05	DINNER AND INTERACTIONS AMONG DELEGATES	

Day 2: Monday, August 05, 2024

Time	Event
08:00	Welcome Note

Session – 2 Human Response to High Altitude

Chair: Forhad A Zaman, Tashi Motup, G L Sharma

Time	Speaker	Title of Talk
08:30-08:50	Corinna Schön	Beyond the peaks: Fatalities in the Swiss Mountains and the
	UMass Chan Medical School –	Vital Role of Psychological Support for Rescuers"
	Baystate, Switzerland	
08:50-08:55	Discussion	
08:55-09:15	Niraj Rai	Genetic architecture and adaptation of Ladakh highlanders of
	Birbal Sahni Institute of	trans-Himalayas
	Palaeosciences, Lucknow,	
	India	
09:15-09:20	Discussion	
09:20-09:40	Spalchen Gonbo	Anemia at high altitude - Real or a calculation error?
	SNM Hospital, Leh, India	
09:40-09:45	Discussion	
09:45-10:05	Tashi Motup	Gall Bladder Stone disease Ladakh. Incidence, disease trend
	SNM Hospital, Leh, India	and future prospects
10:05-10:10	Discussion	
10:10-10:30	Peter Hackett	Vision on HA physiological responses and the way forward
10:30	Tea / Coffee	

Session – 3 Cardiovascular Health and High Altitude Chair: Mahesh K, Tashi Thinlas, Kumaravelu R

Time	Speaker	Title of Talk
10:50-11:10	Ajay Bahl	Profile of cardiomyopathies from Jammu and Kashmir and
	Postgraduate Institute of	Ladakh
	Medical Education and	
11:10-11:15	Research, Chandigarh, India Discussion	
11:15-11:35	Rakesh C. Kukreja	Hypoxic preconditioning of the heart
	University of Virginia, USA	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
11:35-11:40	Discussion	
11:40-12:00	Lotos Rabgais	TBA
	SNM Hospital, Leh, India	
12:00-12:05	Discussion	
12:05-12:25	Kumaravelu Jagavelu	Dual role of Damage associated molecular pattern HMGB3 in
	CSIR-Central Drug Research	myocardial ischemia
12:25-12:30	Institute, Lucknow, India Discussion	
	2.000.00.01	
12:55-13:05	GROUP PHOTOGRAPH	
13:05-14:00	LUNCH	

Session – 4

Immunological response under hypoxic condition

Chair: Kashif Hanif and Prashant Bobhate

Time	Speaker	Title of Talk
14:00-14:20	Brian Graham	Immune Cascade In Inflammatory Pulmonary Vascular Disease
	University of California,	Including Schistosoma And Hypoxic Pulmonary Hypertension
	San Francisco, USA	
14:20-14:25	Discussion	
14:25-14:45	Nirupama Trehanpati	Altered Cellular Energetics of immune cells in the hypoxic nich
	Institute of Liver and Biliary	of Hepatocellular Carcinoma
	Sciences, Delhi, India	
14:45-14:50	Discussion	
14:50-15:10	Rajkumar Savai	Inflammatory Lung Microenvironment in Lung Cancer-Associate
	Max Planck Institute for Heart	Pulmonary Hypertension
	and Lung Research, Germany	
15:10-15:15	Discussion	
15:15-15:35	Rahul Kumar	Role of the immune response in hypoxic pulmonary
	University of California, San	hypertension
	Francisco, USA	
15:35-15:40	Discussion	
15:40	Tea/Coffee	

Session – 5

Posters Session

Chair: Brian Graham, Raj Kumar Savai, Arpana Vibhuti

16:30-18:30	Posters Presentation
18:30-19:30	CULTURAL PROGRAM
20:00	DINNER AND EXPLORATION OF SCIENTIFIC COLLABORATIONS

Day 3: Tuesday, August 06, 2024

08:00-09:00

Yoga and Meditation Dhamma Laddha Vipassana session by revered Guruji

Session – 6

Panel discussion - Evidence-based traditional medicine for wellness.

Chair: Akshay Anand, Raghvendra Rao, Corinna Schön

Time	Speaker	Title of Talk
09:30-10:30	Akshay Anand PGIMER, Chandigarh, India Neelam Dahiya PGIMER, Chandigarh, India Pramod Avti PGIMER, Chandigarh, India Neerja Bharti PGIMER, Chandigarh, India Krishan Kumar PGIMER, Chandigarh, India Pooja Ojha All India Institute of Medical Sciences, Jodhpur, India Anumeha Bhagat Government Medical College & Hospital, Chandigarh, India Monika Pathania All India Institute of Medical Sciences, Rishikesh, India Hemant Bhargav NIMHANS, Bengaluru, India Ganashree All India Institute of Medical Sciences, Patna, India Manjulata All India Institute of Medical Sciences, Patna, India	Evidence-based Traditional medicine for Wellness
10:30	Tea/Coffee	
11:00-11:20 11:20-11:25	Raghavendra Rao Council for Research in Yoga & Naturopathy (CCRYN), New Delhi, India Discussion	Role of yoga in high altitude acclimatization: findings from a pilo study
11:25-11:45	Varun Malhotra AIIMS Bhopal	Examining the Influence of Yoga on Pulse Rate, Oxygen Saturation, and Hypoxic Effects: Analysis of Psychophysiological Parameters and Anaerobic Metabolism Shift
11:45-11:50	Discussion	

Session – 7 Environmental Influences in Pulmonary Pathophysiology

Chair: Sunil Munshi, Padma Deskit

Time	Speaker	Title of Talk
11:50-12:10	Parvaiz A. Koul	Chronic obstructive pulmonary disease in Kashmir, a
	Sher-i-Kashmir Inst. of Med.	moderately high altitude area
	Sciences, Srinagar, India	

12:10-12:15	Discussion	
12:15-12:35	Aastha Mishra	Molecular mechanisms underlying High Altitude Pulmonary
	CSIR-IGIB, Delhi, India	Edema
12:35-12:40	Discussion	
12:40-13:00	Stanzen Rabyang	Consequences of pulmonary hypertension in native highland
	Sonam Norboo Memorial, Leh,	population
	India	
12:00-13:05	Discussion	
13:05-14:00	LUNCH	

Session – 8 Management and therapeutic interventions for Pulmonary Disorders Chair: Anurag Agrawal, Rabyang Tenzin, TN Sathyaprabha

Time	Speaker	Title of Talk
14:00-14:20	Prashant Bobhate Kokilaben Dhirubhai Ambani Hospital, Mumbai, India	Heart rate variability: prognostic marker in Pediatric PAH
14:20-14:25	Discussion	
14:25-14:45	Shine Kumar	Pregnancy and Pulmonary Arterial Hypertension - N terminal
	Amrita University, Kochi, India	pro Brain Natriuretic Peptide Trends and Outcomes
14:45-14:50	Discussion	
14:50-15:10	Kashif Hanif	Selective Estrogen Receptor Modulation Protects Against
	CDRI, Lucknow	Pulmonary Hypertension
15:10-15:15	Discussion	
15:15-15:35	Sonam Spalgais	Non-occupational Anthracofibrosis/Anthracosilicosis in
	Vallabhai Patel Chest	Ladakh
	Institute, Delhi, India	
15:35-15:40	Discussion	
15:40	Tea/Coffee	

Session – 9 Neurological Response at High Altitude Chair: Parvaiz A. Koul, Aastha Mishra, Shine Kumar

Time	Speaker	Title of Talk
16:00-16:20	Sunil Munshi Queens Medical Centre.	Stroke at High Altitude
	Nottingham, UK	
16:20-16:25	Discussion	
16:25-16:45	Akshay Anand	Can Sudarshan Kriya Yoga and advance meditation
	PGIMER, Chandigarh, India	techniques facilitate acclimatization at high altitude?
16:45-16:50	Discussion	
16:50-17:10	Vishnu Swarup	Options for neuroprotection from hypoxic brain injury after
	AIIMS Delhi, India	cardiac arrest?
17:10-17:15	Discussion	
17:15-17:30	Buddha Basnyat	Interactions on neurological health status at HA and the way
	Patan Academy of Health	forward
	Sciences, Kathmandu, Nepal	

18:00-20:00	CULTURAL PROGRAM
20:00	DINNER AND EXPLORATION OF SCIENTIFIC COLLABORATIONS

Day 4: Wednesday, August 07, 2024

Session - 10

High altitude Pathophysiological response

Chair: Manasi Bhattacharjee, Anjali Agrawal

Time	Speaker	Title of Talk
08:30-08:50	Linda E Keyes	Does Blood Pressure Matter for Travelers to High Altitude?
	Highland Hospital in Oakland,	
	CA, USA	
08:50-08:55	Discussion	
08:55-09:15	Arpana Vibhuti	Telomere Dynamics in hypobaric hypoxia pathophysiology
09:15-09:20	SRM University, Delhi-NCR	
	Sonepat, India	
	Discussion	
09:20-09:40	Sudipta Ghosh	High Prevalence of Hypertension among the Indigenous
	North-Eastern Hill University,	Populations of North-East India: An Evolutionary Perspective
	Shillong, India	
09:40-09:45	Discussion	
09:45-10:05	Padma Deskit	High altitude maladies: Experiences and observations of a local
	SNM Hospital, Leh, India	surgeon
10:05-10:10	Discussion	
10:10	Tea/Coffee	

Session - 11

Medical Technologies in Mapping Diseases Chair: Ajay Bahl and Linda E Keyes

Time	Speakers	Titles of Talks
11:00-11:20	Anjali Agrawal Senior Consultant and Delhi Head, Teleradiology Solutions,	Diagnostic imaging at high altitudeovercoming stratospheric challenges with plausible solutions
11:20-11:25	India Discussion	
11:25-11:45	Mahesh Kappanayil Amrita Inst. of Med. Sciences and Res. Centre, Kochi, India	Role of magnetic resonance imaging in understanding the pathobiology of pulmonary arterial hypertension
11:45-11:50	Discussion	
11:50-12:10	Vishal Bansal Vallabhai Patel Chest Institute, Delhi, India	Interventions to Improve Hypoxia Tolerance
12:10-12:15	Discussion	
12:15-12:35	Anurag Agrawal Ashoka University, Sonipat district, Haryana, India	From Bots to Robots: How AI is changing Health and what it means for high altitude medicine
12:35-12:45	Discussion	
13:00-14:00	LUNCH	

Session – 12

Young Investigator Talks

Chair: Rahul Kumar, Rakesh Kukreja

Time	Speaker	Title of Talk
14:00-14:20	Taylor Shay Harman	Andean versus Tibetan adaptive modes: evidence at rest and
	Syracuse University, USA	during exercise
14:20-14:25	Discussion	
14:25-14:45	Shaarika Munshi	Variation in hypoxemia adaptation in patients with
	Imperial College London,	pulmonary arteriovenous malformations- clinical
	London, UK.	quantification and predictors of exercise capacity
14:45-14:50	Discussion	
14:50-15:10	Hiroaki Arima	Gender difference and polycythemia associated with
	Nagasaki University, Japan	polymorphism in rs13419896 and rs2790859 among Tibetan highlanders living in Mustang, Nepal
15:10-15:15	Discussion	Tiginariacis iving in Wastarig, Nepar
15:15-15:35	Rikeshwer Prasad Dewangan	Targeting Hypoxia-Inducible Factor (HIF): An Aspects of
	Jamia Hamdard, New Delhi,	Medicinal Chemistry and Drug Development
	India	
15:35-15:40	Discussion	
15:40-16:00	Manzoor Ali	Profiling of circulating cell-free DNA and its release
	CSIR-IGIB, Delhi, India	mechanisms in High-Altitude Physiology & Pathophysiology
16:00-16:05	Discussion	
16:05	Tea/Coffee	

Session - 13

Panel discussion - Clinical Hypoxia at High altitude

Chair: Forhad A Zaman

Speaker	Title of Talk
Dr Manasi Bhattacharjee AIIMS Guwahati, India Dr Diganta Borah AIIMS Guwahati, India Dr Kalyan Sharma AIIMS Guwahati, India Dr Ankur Khandelwal AIIMS Guwahati, India Dr Rashmi Agarwal (Moderator)	Clinical Hypoxia at High altitude
	Dr Manasi Bhattacharjee AIIMS Guwahati, India Dr Diganta Borah AIIMS Guwahati, India Dr Kalyan Sharma AIIMS Guwahati, India Dr Ankur Khandelwal AIIMS Guwahati, India Dr Rashmi Agarwal

Session - 14

Awards and Valediction

Chair: Santosh Pasha, Rahul Kumar, Aastha Mishra

Time	Activity	
	Announcement and Presentation of Awards	
17:30-17:50	Dr. Qadar Pasha Young Investigator Award	
	(A certificate and a cash award of INR 20K)	
	Best Poster Awards	
17:50-18:10	Valediction: Vote of thank	
	Meeting Organizers	
19:00	DINNER AND EXPLORATION OF SCIENTIFIC COLLABORATIONS	

Day 5: Thursday, August 8, 2024

Roundtable discussions over breakfast: Targets achieved during the symposium

Local Hospital Visit / Interactions with HA physicians

Bon voyage with an enriched experience, & We meet at the 8th International Leh Symposium 2026