

**Workshop program at a glance**

Day	Date	Registration /Test 09:00-09:15	Lecture 1 09:15-10:45	Lecture 2 11:15-12:45	Practical 14:00-16:00	Lecture 3 16:00-17:30	Special Lecture 17:30-18:30
1.	Wednesday 06.03.2019	Introduction to workshop	VK 1	ASD	NJ SM	KS	Inauguration
2.	Thursday 07.03.2019	Test	NKS 1	VK 2	NJ SM	MO 1	TS
3.	Friday 08.03.2019	Test	NKS 2	SV 1	NJ/SM/AKT	TS 1	SV
4.	Saturday 09.03.2019	Test	SV 2	HU 1	NJ/SM/AKT/ SR	HW 1	NKS
5.	Sunday 10.03.2019	Test	HU 2	TS 2	MO 2	HW 2	MJ
6.	Monday 11.03.2019	Test	TY	MS			

**Workshop Classes: 60 min +30 min. student - lecturer interaction**

**Breaks: 10:45-11:15 Tea break; 12:45-13:45 Lunch break; 15:45-16:00 Tea break**

1	Vinod Kumar	VK1	Biological Rhythms: Concepts and methods
		VK2	Complex Clocks and timekeeping in vertebrates
2	Anand S. Dixit	ASD	Seasonal processes in vertebrates: Regulation of reproduction in birds as an example
3	N. K. Subhedar	NKS 1	Organization and evolution of central nervous system
		NKS 2	Hypothalamus, metabolism and energy homeostasis
		NKS	Special lecture – interaction with students
4	Sheeba Vasu	SV 1	The basic principles of molecular circadian clocks – the fly as an example
		SV 2	The cellular organization of circadian clocks in Drosophila
		SV	Special lecture: Approaches to study adaptive significance of circadian rhythms
5	K. Sriram	KS	Mathematical models of circadian rhythms based on gene regulatory network
6	M. Oosthuizen	MO 1	Rhythms in subterranean mammals
		MO 2	Diurnality, nocturnality and the effect of light pollution
7	Han Wang	HW 1	Molecular and genetic mechanisms underlying circadian rhythm generation
		HW 2	TALEN and CRISPR/Cas9 technique for generation of mutants: Principle and Applications
8	Hiroki Ueda	HU 1	Whole-body/organ imaging with single-cell resolution (CUBIC)
		HU 2	Next-generation mammalian genetics/ sleep
9	Tyler Stevenson	TS 1	Basics of epigenetic modifications and experimental techniques
		TS 2	Circadian and seasonal epigenetic modifications Part I and II
		TS	Special Lecture: Basics of Epigenetics - Tools and techniques
10	Manjari Jain	MJ	Animal communication: Diversity and complexity
11	T. Yoshimura	TY	Molecular and neuroendocrine mechanism of vertebrate seasonal reproduction
12	M. Sadananda	MS	Role of higher-order sensory and associative brain areas in migration-related cognition
<b>Laboratory activities</b>			
1.	Neelu J. Gupta	NJG	Actogram analysis, actigraphy/ Ambulatory blood pressure monitoring/Temp. recording
2.	Shalie Malik	SM	Actogram analysis, actigraphy/ Ambulatory blood pressure monitoring/Temp. recording
3.	Amit K. Trivedi	AKT	Actogram analysis, actigraphy/ Ambulatory blood pressure monitoring/Temp. recording