LECTURE AND SEMINAR SCHEDULE FOR THE SIXTH BANGALORE BENNY SHILO COURSE IN DEVELOPMENTAL BIOLOGY DEC 17, 2012- DEC 26, 2012

ALL ACTIVITIES IN MALGOVA (Southern labs 70 seater auditorium).

DAY	Time	Speaker	Title
DAY 1 **Monday Dec 17**	8:30 - 9:00 AM	Registration	(Mandatory for course participants)
	9:00-11:0 AM	K. VijayRaghavan	Introduction to *Drosophila* genetics, methods and questions-I.
	11:00-11:30 AM	Tea Break	
	11:30 AM-1:0 PM	Benny Shilo	Patterning by gradients in the early *Drosophila* embryo.
	1:00-2:0 PM	Lunch	
	2:00-2:45 PM	K. VijayRaghavan	Introduction to *Drosophila* genetics, methods and questions-II.
	2:45-3:30PM	Savita Ayyar and Krishan Badrinath	Talk on grant writing.
	4:00 – 5:30 PM	-	NCBS ANNUAL WORK SEMINARS (followed by tea).
	5:30 – 6:30 PM	Benny Shilo	**Egg to Organism-Visualizing the concepts of development** (PUBLIC LECTURE).
	7:30 PM onwards	-	Dinner and Q&A with Benny and Vijay and discussion on grant proposal ideas.

DAY	Time	Speaker	Title
DAY 2 **Tuesday Dec 18**			
	9:00-11:00 AM	Amos Arieli	Frontiers in Brain Research: A journey into Sensory Perception.
	11:00-11:30 AM	Tea break	
	11:30 AM-1:00 PM	Benny Shilo	Morphogen shuttling, and scaling of pattern with size.
	1:00 – 2:00 PM	Lunch	
	2:00 – 3:30 PM	-	Paper preparation (for Journal Club)
	3:30-4:00 PM	Tea break	
	4:00-6:00 PM		**<u>Journal Club with Benny:</u>** **Multistep molecular mechanism for bone morphogenetic protein extracellular transport in the *Drosophila* embryo.** **Sawala A, Sutcliffe C, Ashe HL. *PNAS*., 2012 Jul 10; 109(28):11222-7.**
	7:30 PM onwards		Dinner followed by General Discussion with Benny and Amos. (Are there analogies between developmental biology and brain research?)

DAY	Time	Speaker	Title
DAY 3 **Wednesday Dec 19**			
	10:15-11:15 AM	Mahendra Rao (Director of the new NIH intramural Center for Regenerative Medicine)	**InStem Frontier Lecture** at Dasheri (southern labs 200-seater auditorium).
	11:45 AM- 1:15 PM	Amos Arieli	Brain and Awareness: Thinking, objectivity and decision making.
	1:00 – 2:00 PM	Lunch	
	2:00 – 3:30 PM	Ze'ev Paroush	Generating the anteroposterior axis of the *Drosophila* embryo.
	3.30-4.00 PM	Tea break	
	4:00-6:00 PM	-	Grant proposal preparation
	7.30 PM onwards	-	Dinner and Q&A with Ze'ev and discussion on grant proposal ideas.

DAY	Time	Speaker	Title
DAY 4 **Thursday Dec 20**			
	9:00 – 11:00 AM	Eyal Schejter	The Cytoskeleton and Establishment of Asymmetry During *Drosophila* Oogenesis.
	11:00- 11:30 AM	Tea break	
	11:30 AM -12:45 PM	Ze'ev Paroush	From a morphogen gradient to positional information and cell identity.
	12:45 – 2:00 PM	Lunch	
	2:00– 3:30 PM	Ze'ev Paroush	Negative transcriptional regulation plays a prominent role in Development. (Reference- Turki-Judeh W, Courey AJ. Groucho: a corepressor with instructive roles in development. *Curr Top Dev Bio.,* 2012;98:65-96).
	3:30-4:00 PM	Tea break	
	4:00-6:00 PM	-	Paper preparation
	6:00PM-7:30PM		**<u>Paper Discussion with Ze'ev</u>** : **Antagonistic action of Bicoid and the repressor Capicua determines the spatial limits of *Drosophila* head gene expression domains.** **Löhr U, Chung HR, Beller M, Jäckle H., *PNAS*., 2009 Dec 22;106(51):216.**
	7:30 PM onwards		Dinner and discussion on grant proposal ideas with Eyal.

DAY	Time	Speaker	Title
DAY 5 **Friday Dec 21**			
	9:00 – 10:15 AM	Thomas Lecuit	TALK TO BE CONFIRMED
	10:15-11:15AM	Daniel Greif	**SPECIAL SEMINAR** (Greif et al, *Dev Cell*., 2012; Radial construction of an arterial wall).
	11:00- 11:30 AM	Tea break	
	11.30 AM -1:00 PM	Eyal Schejter	Actin Cables Guide Polarized Secretion in Tubular Organs.
	1:00 – 2:00 PM	Lunch	
	2:00– 3:15 PM		Paper preparation
	3:15-3.30 PM	Tea break	
	3:30-5:30 PM		**Journal Club with Eyal:** **Growing microtubules push the oocyte nucleus to polarize the *Drosophila* dorsal-ventral axis.** **Zhao T, Graham OS, Raposo A, St Johnston D. *Science*., 2012 May 25;336(6084):999-1003.**
	7.30 PM onwards		Dinner followed by a General Talk: **Tracing the lineage and clonal relationships of cells in the mouse: where did these cells come from, how did they get here and to whom are they related?** and Q&A by Daniel Greif.

DAY	Time	Speaker	Title
DAY 6 **Saturday Dec 22**			
	9:00 – 11:00 AM	Maithreyi Narasimha	Closure and Continuity: the molecular, cellular and physical basis of epithelial fusion during morphogenesis-I.
	11:00- 11:30 AM	Tea break	
	11.30 AM -1:00 PM		Free for preparing papers, grant proposals etc.
	1:00 – 2:00 PM	Lunch	
	2:00– 4:00 PM	Maithreyi Narasimha	Closure and Continuity: the molecular, cellular and physical basis of epithelial fusion during morphogenesis-II.
	6:00-7.30 PM	CONCERT	Sitar recital - Kalyanjit Das.
	7.30 PM onwards	Special Dinner	

DAY			
DAY 7 **Sunday Dec 23**	**FREE**	**(Free for preparing papers, grant proposals etc).**	

DAY	Time	Speaker	Title
DAY 8 **Monday Dec 24**			
	9:00 – 11:00 AM	Erez Raz	Guidance of primordial germ cell migration in zebrafish.
	11.00- 11.30 AM	Tea break	
	11.30 AM -1:00 PM	Talila Volk	Neurogenesis and neuronal pathfinding.
	1:00 – 2:00 PM	Lunch	
	2:00– 3:30 PM	Erez Raz	Molecular and cellular mechanisms controlling primordial germ cell motility.
	4:00-6:00 PM		NCBS ANNUAL WORK SEMINARS (followed by tea).
	6:00-7:30 PM	Talila Volk	Myogenesis and muscle pathfinding.
	7.30 PM onwards		Dinner and Q&A with Erez.

DAY	Time	Speaker	Title
DAY 9 **Monday Dec 25**			
	7.30 PM onwards		Dinner and Q&A with Talila

DAY	Time	Speaker	Title
DAY 10 **Monday Dec 26**			
	9:00 – 11:00 AM		**<u>Journal Club with Erez</u>:** **Changes in Ect2 Localization Couple Actomyosin-Dependent Cell Shape Changes to Mitotic Progression,** **Matthews et al., *Dev Cell*., 2012 Aug 14; 23(2): 371-83**
	11:00- 11:30 AM	Tea break	
	11.30 AM -1:00 PM		**<u>Journal Club with Talila:</u>** **Secreted VAPB/ALS8 Major Sperm Protein Domains Modulate Mitochondrial Localization and Morphology via Growth Cone Guidance Receptors.** **Han et al., *Dev Cell*., 2012 Feb 14;22(2):348-62.**
	1:00 – 1:30 PM		Closing remarks by Vijay followed by departure.