Sviesan

alliance nationale pour les sciences de la vie et de la santé



ITMO CELL BIOLOGY, DEVELOPMENT AND EVOLUTION

ITMO GENETICS, GENOMICS AND BIOINFORMATICS

November 28th and 29th, 2013 CNRS, Campus Gérard Mégie 3 rue Michel-Ange, Paris 16^e

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Colloquium **Evolution:** Present and Future

Thursday, November 28th, 2013

	1:00 PM	Reception - Coffee
	2:00 PM	Introduction: Laurent Kodjabachian, director of ITMO Cell biology, develop- ment and evolution; Dominique Joly, CNRS -Institute of ecology and environment; Vincent Laudet, Director of Institute of Functional Genomics of Lyon; Thierry Galli, deputy director of ITMO Cell biology, development and evolution
		SESSION 1: CELLULAR MECHANISMS OF DEVELOPMENT AND EVOLUTION Chairman: Laurent Kodjabachian
	2:10 PM	How rapid evolution did reshape the ancestral chordate genome in tunicates (Oi- kopleura and other larvaceans), Daniel Chourrout , Bergen (Norway)
	2:50 PM	Filamentous development in brown algae: alternative processes of multicellularity, Bénédicte Charrier , Roscoff
	3:10 PM	Address of Pr André Syrota, President of Aviesan, Chairman and CEO of Inserm
	3:20 PM	Clues about the origin and evolution of metazoan embryo polarity from studies in the cnidarian Clytia, Evelyn Houliston , Villefranche-sur-Mer
	3:40 PM	Robustness and evolution of C. elegans vulva development, Marie-Anne Félix, Paris
	4:00 PM	What studies in planarians reveal about animal centrosome structure and function, Juliette Azimzadeh , Paris
	4:20 PM	Coffee break
	4:40 PM	Regulatory mechanisms of emergence and diversification of morphological patterns, Benjamin Prud'homme , Marseille
	5:00 PM	Regenerating the body: old questions, new models, Michalis Averof, Lyon
		SESSION 2: EVOLUTION AND PATHOLOGY Chairman: Vincent Laudet
	5:20 PM	The capital economy in hominin evolution: body fat made us human, Jonathan Wells , London (UK)
	6:00 PM	Cancer evolution and prevention, Michael Hochberg, Montpellier
	6:20 PM	Population genetic tools to dissect immunity to infection in humans, Lluis Quintana-Murci , Paris

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Friday, November 29th, 2013

	SESSION 2: EVOLUTION AND PATHOLOGY (PART 2) Chairman: Vincent Laudet
9:00 AM	Evolutionary thinking in medicine, Michel Raymond, Montpellier
9:20 AM	Biased gene conversion: the dark side of recombination, Laurent Duret, Lyon
	SESSION 3: ADAPTATION TO ENVIRONMENT Chairman: Dominique Joly
9:40 AM	Address of Stéphanie Thiebault , Vice-president of AllEnvi, Director of the CNRS' Institute of ecology and environment (INEE)
9:50 AM	Tracing the genetic basis of adaptations in the house mouse, $\ensuremath{\textbf{Diethard}}$ Tautz, Ploen (Germany)
10:30 AM	Coffee break
10:50 AM	The genetic basis of adaptation: molecular evolution of mimicry in butterflies, Mathieu Joron, Paris
11:10 AM	Metabolic evolution of a Drosophila fly adapted to its cactus host, Virginie Orgogozo , Paris
11:30 AM	Development and evolution of the brain in the blind cavefish <i>Astyanax mexicanus</i> : drift and selection, Sylvie Rétaux , Paris
11:50 AM	The dynamics of hybridization and speciation in forest trees, Rémy Petit , Bordeaux
12:10 PM	Rapid adaptive changes in morphology and function in natural population, Anthony Herrel, Paris
12:30 PM	Lunch break
2:00 PM	Round Table on future challenges in Evolutionary Biology led by Michel Vervoort
	SESSION 4: NEW OUTLOOKS ON EVOLUTION Chairman: Thierry Grange
2:40 PM	What have we learned from 25 years of molecular phylogenies of the animal kingdom? Max Telford , London (UK)
3:20 PM	Genetic and nongenetic inheritance: a current paradigm shift, Etienne Danchin, Toulouse
3:40 PM	Biodiversity and Evolution: the last refuge for basic research in Biology? Jean-Michel Claverie, Marseille
4:00 PM	How horizontal transfer shapes the biochemistry, genetics and behavior of bacteria, Eduardo Rocha , Paris
4:20 PM	A brief history of human evolution: are climates and geography the main driving forces? Jean-Jacques Jaeger, Poitiers
4:40 PM	End of colloquium

