

Graduate Schools  
Infection Immunity and Cancer, UniGe & UniL: CUS  
Biology & Medicine, CMU

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## Seminar in Microbiology

Monday, September 28, 2015

Salle de séminaire 7172, CMU

**11:30 – 12:30**



**Prof. Alan TARTAKOFF**

Dept. of Pathology, Case Western Reserve University Medical School,  
Cleveland, Ohio, USA

### **Cell biology of yeast genome management**

Prof Tartakoff, an authority in yeast cell biology, has studied various aspects of subcellular organization and protein trafficking. His recent focus is on the genetic and cytological basis of bud site selection and outgrowth in budding yeast after haploid yeast cells have fused into a zygote. He is also exploring how the distribution of organelles and macromolecular material is controlled during zygote formation and has a long-standing interest in understanding how nuclear fusion is achieved in the zygote and defining the successive transcriptional programs that characterize zygote formation.

#### **Selected Publications**

Cell biology of yeast zygotes, from genesis to budding. Tartakoff AM. *Biochim Biophys Acta*. 2015 Jul;1853(7):1702-14.

Tartakoff, A; I. Aylarov and P. Jaiswal. Septin-Containing Barriers Control the Differential Inheritance of Cytoplasmic Elements. *Cell Rep*. 2013 Jan 31;3(1):223-36.

Zapanta Rinonos S, Rai U, Vereb S, Wolf, K, Yuen E, Lin, C. Tartakoff AM. The Sequential Logic of Polarity Determination During the Haploid-to-Diploid Transition in *S. cerevisiae*. *Eukaryotic Cell*, 2014 Aug 29.

Tartakoff, A. and Tao, T. Comparative and Evolutionary Aspects of Macromolecular Translocation Across Membranes. *Int. J. Biochem and Cell Biol*. 42, 214-229 (2010).

Tartakoff, A. and Jaiswal, P. Nuclear Fusion and Genome Encounter During Yeast Zygote Formation. *Mol. Biol. Cell* 20, 2932-2942 (2009).

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