



# Seminar(i)

## Giant Viruses and Tiny Hosts: An Entangled Evolutionary History

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Prasinoviruses are double-stranded DNA viruses that parasitize microalgae throughout the world oceans, mainly in the genera *Ostreococcus*, *Bathycoccus* and *Micromonas*. In recent years, we sequenced several complete genomes for prasinoviruses and their hosts to study their diversity, evolution, and coevolutionary interactions. We tested experimentally the host specificity of numerous virus strains and used these data, along with phylogenies, to investigate the cophylogenetic patterns in this system. Genomic data were used to uncover some instances of lateral gene transfer in the virus genomes, some originating from the host. Finally, we studied the determinants of burst size across the Phycodnaviridae, that contain *Prasinovirus*, using a comparative approach, and found surprising results. All these data depict a complex and mosaic evolutionary history between giant viruses and their tiny hosts.

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**WHERE?** Seminar room ICBiBE - SS6  
(Institutes building floor -1)

**WHEN?** Thursday 07/06/2018 – 12:00 h