

# IV REUNIÓN BINACIONAL DE ECOLOGÍA

## Interacción, Espacio, Tiempo

8 al 13 de agosto 2010  
Buenos Aires, Argentina



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### CONFERENCIA PLENARIA

Miércoles 11 de agosto  
11:30 hs

#### THE EVOLUTIONARY STRATEGIES THAT SHAPE ECOSYSTEMS

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Through collaboration with Simon Pierce (Varese, Italy) the CSR theory of primary plant strategies (Ramenski 1938, Grime 1974) has been expanded to include animals and microorganisms. This presentation will describe how a universal three-way trade-off occurs throughout the Tree of Life and can provide a path from the origin of species to the assembly and functioning of ecosystems. A key step along this path is the Twin-Filter Model that distinguishes between the organismal traits that control ecosystem functioning (productivity, carbon storage, nutrient cycling, resistance and resilience) and those that determine which particular species and genotypes gain admittance to individual communities. The later parts of the lecture will examine the extent to which this universal theory of adaptive strategies can begin to provide a functional classification of ecosystems and a predictive approach to their conservation and management.