



Biology Seminar

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Evolutionary Mosaics & The Interplay Between Innovation and Integration



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12:00 PM GMT-7**

Evolutionary innovations are scattered throughout the tree of life, and have allowed the organisms that possess them to occupy novel adaptive zones.

While the impacts of these innovations are well-documented, much less is known about how these innovations arise in the first place. Patterns of covariation among traits across macroevolutionary timescales can offer insights into the generation of innovation. However, to-date, there is no consensus on the role that trait covariation (i.e. integration and modularity) plays in this process. Here, we examine two case studies in fishes to determine the role that trait integration has played in shaping the striking evolutionary innovations that each clade possesses.

