

Seminários da Cátedra de Biodiversidade Rui Nabeiro

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Plant Facilitation and Climatic Debts

Summary: Climatic change promotes local extinctions and colonizations, ultimately altering the distribution of plant species. However, some biotic interactions like facilitation may buffer the impact of climatic change by creating suitable microhabitats. Specifically, nurse plants may alleviate the abiotic stress beneath their canopies and facilitate the establishment of other plants that could not survive otherwise in the community. The mismatch between the microclimatic conditions met by facilitated plants and the actual climate can be conceptualized as a climatic disequilibrium or climatic debt that quantifies the lag of species and communities' responses to climate changes. If climate change pushes nurse plants to local extinction, facilitated plants should pay the debt that, in extreme situations, could lead them to coextinction. And these coextinctions may cascade in a loss of ecosystem functions associated with nurse-facilitated plants systems, such as soil microbial-driven ecosystem functions.

Data: 28/ 11/2022

Horário: 14h

Zoom Link: <https://videoconf-colibri.zoom.us/j/97933880520?pwd=aWh0endDRUNpNVdMRzlrY1ZQYXd6Zz09>

Meeting ID: 979 3388 0520

Senha de acesso: bioseminar

