(A) Extinction rate Origination rate Forest Density **Habitat Openness** Sea Level Oligocene Global Temperature Andes Elevation \* Plant Diversity Self-diversity Forest Density **Habitat Openness** Sea Level Eocene Global Temperature Andes Elevation \* Plant Diversity Self-diversity -5 5 5 Correlation coefficient (B) **EOT** 100 Average temperature (°C) Diversity (nb. genera) 30.0 80 25.0 60 -20.040 Sap. Vac. Bar. Mus. Des. Late Mid Early Early Late Eocene Oligocene 50 45 40 35 25 30

Time (Ma)