**Capítulo 15**

**Mejora genética de plantas autógamas {segunda parte}**

**Sesión 2025-10-01**

**15.9 Multilineal varieties in self-pollinating plants**

**Documentary basis**

**Cabrera, F. A. V. (2016). *Mejoramiento genético de plantas: Segunda Edición*. Universidad Nacional de Colombia.**

[Genecology and seed zones for Indian ricegrass collected in the southwestern United States](https://www.sciencedirect.com/science/article/pii/S1550742412500771)

[RC Johnson](https://scholar.google.com/citations?user=3cwbiEsAAAAJ&hl=es&oi=sra), MJ Cashman, K Vance-Borland - Rangeland Ecology & …, 2012 - Elsevier

… is **self**-**pollinating**, yet is difficult to cross using traditional methods. As a result, **cultivars** to …  
genetic diversity and climate though **multilinear** regression modeling and GIS mapping to …

[Guardar](javascript:void(0)) [Citar](javascript:void(0)) [Citado por 41](https://scholar.google.com/scholar?cites=2382537246294732890&as_sdt=2005&sciodt=0,5&hl=es) [Artículos relacionados](https://scholar.google.com/scholar?q=related:WvCIlQB5ECEJ:scholar.google.com/&scioq=Multilineal+varieties+in+self-pollinating+plants&hl=es&as_sdt=0,5&as_ylo=2004) [Las 14 versiones](https://scholar.google.com/scholar?cluster=2382537246294732890&hl=es&as_sdt=0,5&as_ylo=2004)

A continuación, se presenta un cuestionario cerrado sobre el artículo de Johnson et al (2012). Los objetivos de esta actividad son que el estudiante pueda:

Objetivo\_1. Realizar (=hacer) un análisis exploratorio del documento, que le permita comprender la importancia y aplicabilidad del tema,

**Objetivo\_2.** Apropiar la información generada por Johnson et al (2012), al contexto local.

**Instructivo para desarrollar en cuestionario**

* Lea el documento en su versión original. Use DeepL
* Seleccione la respuesta correcta, escríbala en español inmediatamente debajo de la respectiva pregunta.

**1. What was the primary goal of the study?**

1. To increase seed production of Indian ricegrass
2. To identify pest-resistant varieties
3. To understand genetic variation and develop seed zones
4. To test fertilizer responses

**2. How many populations of Indian ricegrass were collected for the study?**

1. 25
2. 50
3. 106
4. 200

**3. Which environmental factor was most consistently linked to plant traits?**

1. Soil pH
2. Wind speed
3. Temperature
4. Elevation

**4. What method was used to analyze trait-climate relationships?**

1. Regression analysis
2. Canonical correlation analysis
3. Principal component analysis
4. Cluster analysis

**5. How many seed zones were proposed in the final map?**

1. 6
2. 9
3. 12
4. 15

**6.Develop Objetivo\_2**