

## **Portada AyTBUAP 7(28). Esferas de abundancia; construyendo un reservorio de semillas**

Ximena Gordillo-Ibarra\* **iD**, Jesús Mauricio Muñoz-Morales\*\* **iD**

Alianzas y Tendencias BUAP

<http://doi.org/10.5281/zenodo.7485132>

Email de autores para correspondencia: \*[ximena.gordillo@aytbuap.mx](mailto:ximena.gordillo@aytbuap.mx);

\*\*[mauricio.munoz@aytbuap.mx](mailto:mauricio.munoz@aytbuap.mx)

### **RESUMEN**

El cambio climático que sufre el planeta ha provocado entre otras cosas efectos negativos en la agricultura [1]. Esto junto con la deforestación de bosques provocados por la tala de árboles o los incendios accidentales, marcan un escenario adverso para el planeta que podría provocar la pérdida de diversidad vegetal, animal e incluso microbiano [2–5].

Por esta razón en diferentes regiones del mundo se ha planteado la creación de bancos de germoplasma [6,7], en especial de semillas con el fin de resguardar el mayor número de especies de plantas y que sirvan cuando sea necesario reforestar o propagar un cultivo de interés agrícola [8,9]. Este esfuerzo debe ser conjunto en donde participe el gobierno, científicos especialistas, universidades, empresas e incluso la población en general [8].

Sin embargo, existe un límite muy estrecho entre salvaguardar el germoplasma con fines altruistas y salvaguardar las semillas con fines comerciales [10]. Por lo que los programas de estos germoplasmas deberían estar regulados de tal forma de contar con bancos de semillas sustentados por los gobiernos para reforestar ambientes [7–9] y otros bancos de semillas de empresas con propósitos comerciales [10–12]; incluso con la obligación de ceder su germoplasma en caso de emergencia.

La presente portada muestra esferas de abundancia (Figura 1) que representan cómo ciertas semillas están controladas por la industria [13], razón por la que están encerradas y aisladas en cuenco de madera. Esta pequeña reflexión se hace con el fin de que toda la población se involucre en salvar a nuestro planeta y sean actores principales en el resguardo de algunas semillas.

**Palabras clave:** germoplasma.; AyTBUAP 7(28); banco de semillas; reforestación; arte digital.

## ABSTRACT

Climate change suffered by the planet has caused, among other things, negative effects on agriculture [1]. This, together with the deforestation of forests caused by the felling of trees or accidental fires, mark an adverse scenario for the planet that could cause the loss of plant, animal and even microbial diversity [2-5].

For this reason, in different regions of the world, the creation of germplasm banks has been proposed [6,7], especially seeds in order to protect the largest number of plant species; as a source to reforest or propagate agriculture crops [8,9]. This effort must be joint with the participation of the government, specialist scientists, universities, companies and even the general population [8].

However, there is a very narrow line between safeguarding germplasm for altruistic purposes and safeguarding seeds for commercial purposes [10]. Therefore, the programs of these germplasms should be regulated in such a way as to have seed banks supported by governments to reforest environments [7-9] and other seed banks of companies with commercial purposes [10-12]; even with the obligation to transfer their germplasm in case of emergency.

This cover shows spheres of abundance (Figure 1) that represent how certain seeds are controlled by the industry [13], which is why they are enclosed and isolated in a wooden bowl. This small reflection is made in order for the entire population to get involved in saving our planet and be the main actors in the protection of some seeds.

**Keywords:** Germplasm.; AyTBUAP 7(28); seed bank; reforestation; digital art.

# ALIANZAS y tendencias BUAP



**Figura 1.** Portada de AyTBUAP 7(28)

(<https://drive.google.com/file/d/1ZXalq4MkHbx5EICTNekA1CuCsW9s6SXd/view>)



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