



Llamado Cargo POSTDOCTORAL 2022 (MN-SAP)

Lab José Estevez at CBV-UNAB
(<https://estevezlab.weebly.com/>)



Millennium Nucleus for the Development of Super Adaptable Plants (MN-SAP)

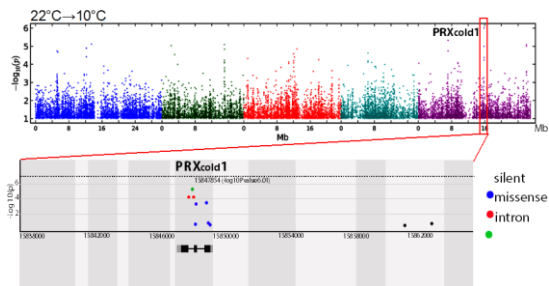
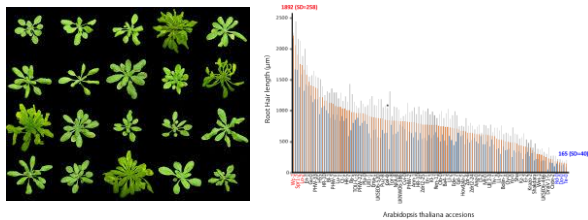
- Para empezar en Enero-Marzo 2022
- Tener residencia en Chile
- Escribir a jose.estevez@unab.cl.
Enviar CV detallado y 2 cartas de recomendación
- Poseer antecedentes de investigación competitivos
- Grado de doctor(a) acreditado
- Tener experiencia previa en la planta modelo *Arabidopsis* (deseable)



Major Goal 1. Elucidate the underlying mechanisms associated with Phosphate uptake under multiple environmental stress conditions: salt, pest, salt + pest challenges



(1.1) Natural variation by GWAS approach

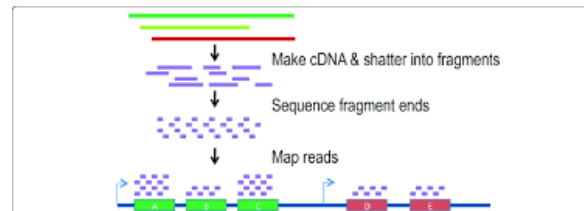


Gene discovery

(1.2) Gene transcriptional network by CHIP- & RNA-seq



CHIP-seq



RNA-seq
(gene expression)

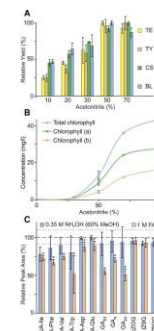
Gene identification

(1.3) Gene function validation

Loss of function mutants and



5 candidate genes



Pi Uptake and translocation

Hormonal profiles

ROS, Ca²⁺, lipid modifications

Gene validation