



Colección de diversidad Genética de yuca - PPD - 2019

Resultados

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COLECCIÓN DE DIVERSIDAD GENETICA DE YUCA



481
Genotypes

Landraces

Argentina	5	Genotipos
Bolivia	2	Genotipos
Brasil	110	Genotipos
China	1	Genotipo
Colombia	104	Genotipos
Costa Rica	13	Genotipos
Cuba	13	Genotipos
Republica Dominicana	1	Genotipo
Ecuador	21	Genotipos
Guatemala	19	Genotipos
Indonesia	15	Genotipos
Reino Unido	1	Genotipo
Malasia	6	Genotipos
Mexico	12	Genotipos
Nigeria	3	Genotipos
Panamá	8	Genotipos
Paraguay	25	Genotipos
Peru	34	Genotipos
Puerto Rico	3	Genotipos
Tailandia	5	Genotipos
USA	3	Genotipos
Venezuela	17	Genotipos

Clones de CIAT

CG	15	Genotipos
CM	18	Genotipos
CT	1	Genotipo
PSEXXX-1	1	Genotipo
SG	7	Genotipos
SM	15	Genotipos
TME	1	Genotipo
TMS	2	Genotipos



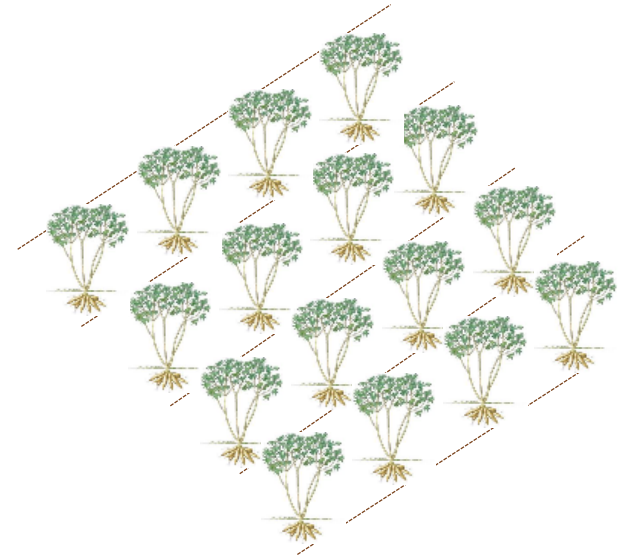
Materials

- ❖ 355 cassava genotypes in 2019
- ❖ Harvest: CIAT, 1100 m.a.s.l. in Palmira, Colombia (03° 25'N; 76° 35'W) at approx. 11 months physiological age.



Evaluation in roots

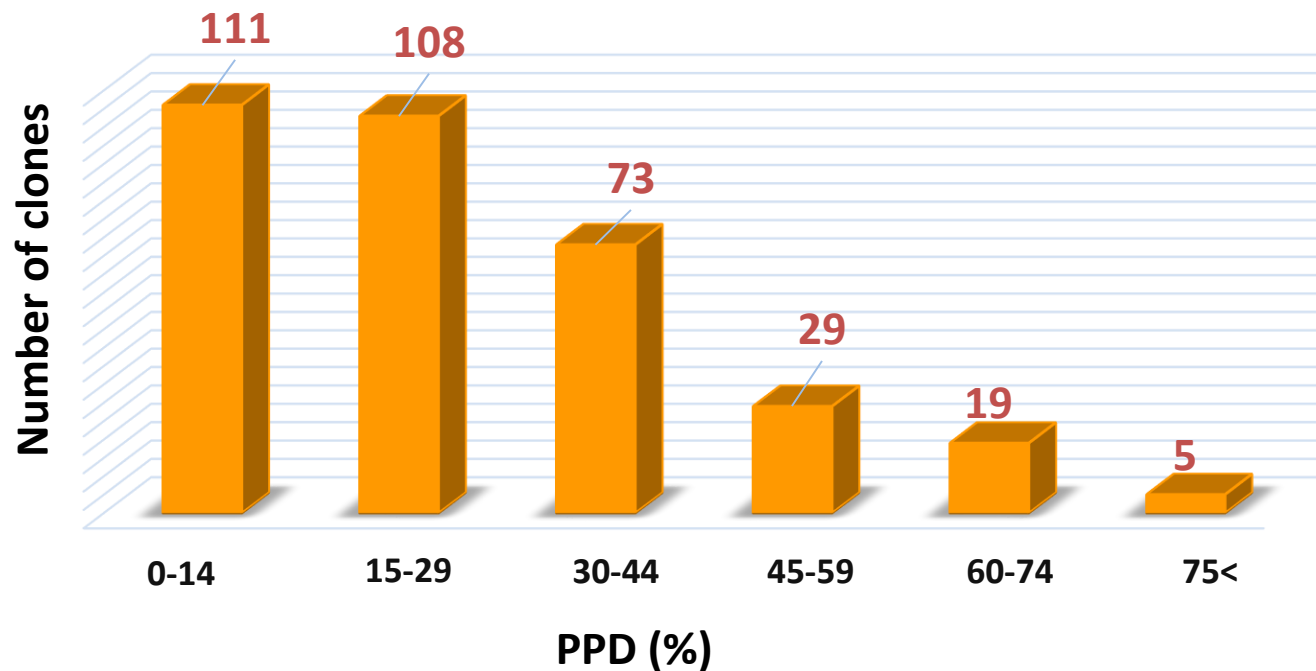
- ✓ Cyanide
- ✓ Postharvest Physiological Deterioration (PPD)
- ✓ Cooking time
- ✓ Dry matter
- ✓ Starch and Flour
- ✓ NIRS



Post-harvest physiological deterioration - PPD

Distribution of PPD in cassava roots

Min: 0% ; Max: 85% ; Mean: 27%



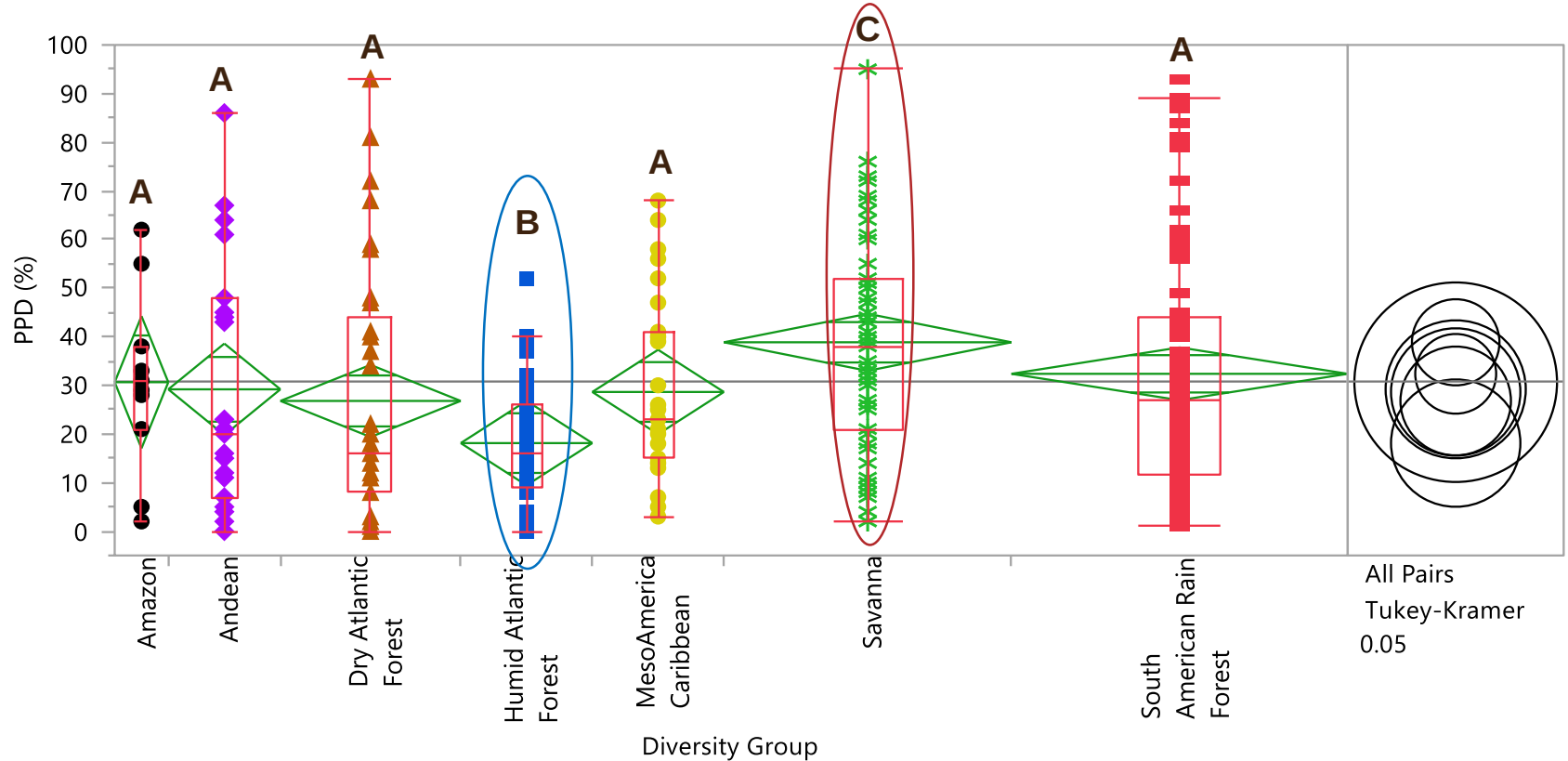
Results

PPD ranged from 0% to 85%.

We found 111 genotypes with low PPD (<15%)



PPD

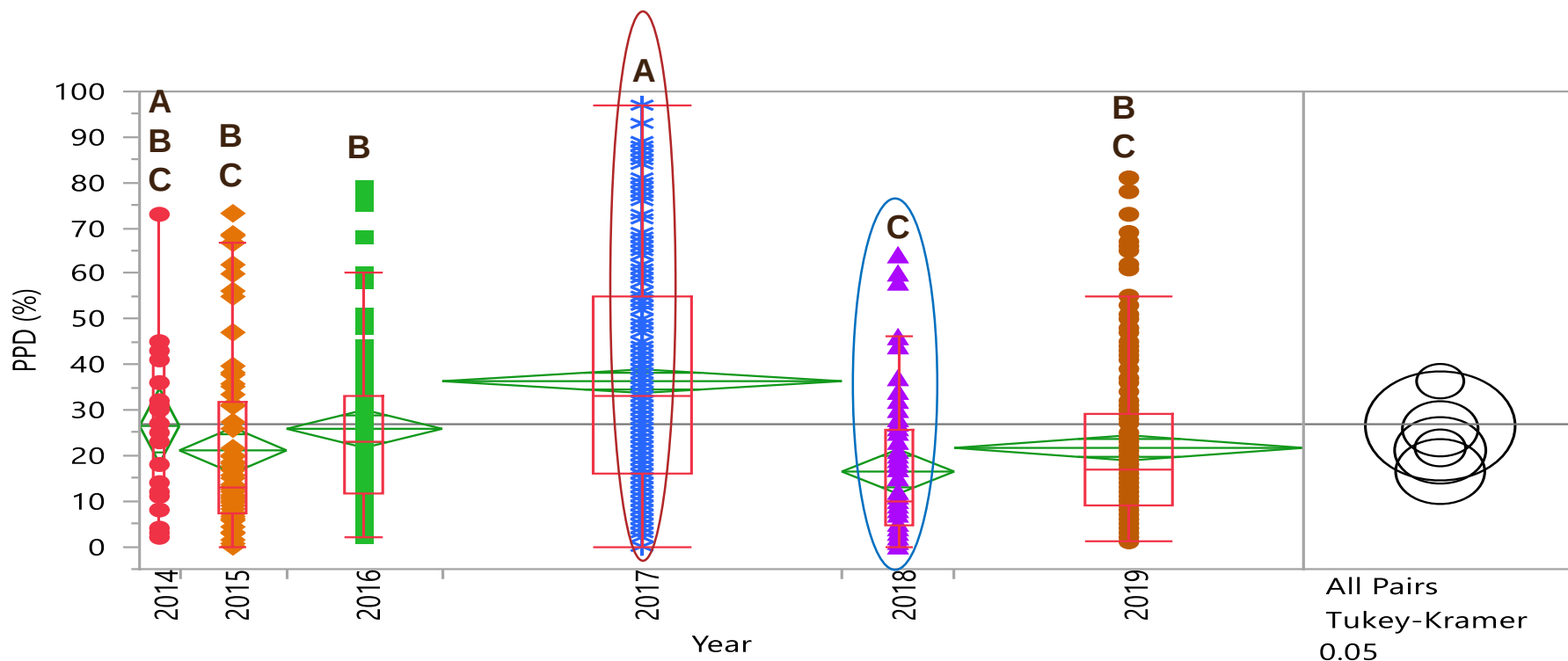


High PPD: Savanna (40%)

Low PPD: Humid Atlantic Forest (20%)

Diversity Group		Mean	Std Error
Savanna	C	40.37	7.19
South American Rain Forest	A	33.57	5.08
MesoAmerica Caribbean	A	31.05	4.22
Andean	A	30.65	5.36
Amazon	A	29.50	5.21
Dry Atlantic Forest	A	27.65	4.37
Humid Atlantic Forest	B	20.33	3.43

PPD - Cassava postharvest physiological deterioration



High PPD: 2017

Low PPD: 2018

Year	Mean	Std Error
2017	36.32	1.32
2014	26.47	4.19
2016	25.85	2.12
2019	21.65	1.41
2015	21.11	2.55
2018	16.44	2.49

PPD - Cassava postharvest physiological deterioration

