



Screening for CMD resistance/tolerance varieties 2018-2019

Dr. Nguyễn Anh Vũ
Deputy Director - National Key Laboratory for Plant Cell Biotechnology
Agricultural Genetics Institute

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Ministry of
Agriculture and Rural
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Vietnam Academy of
Agricultural Sciences -
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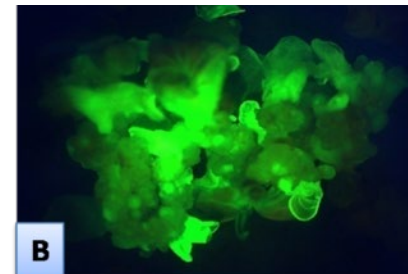
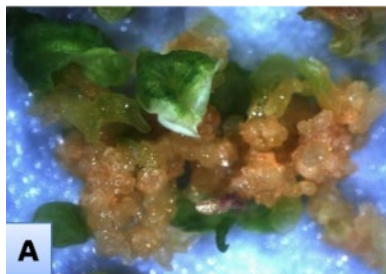
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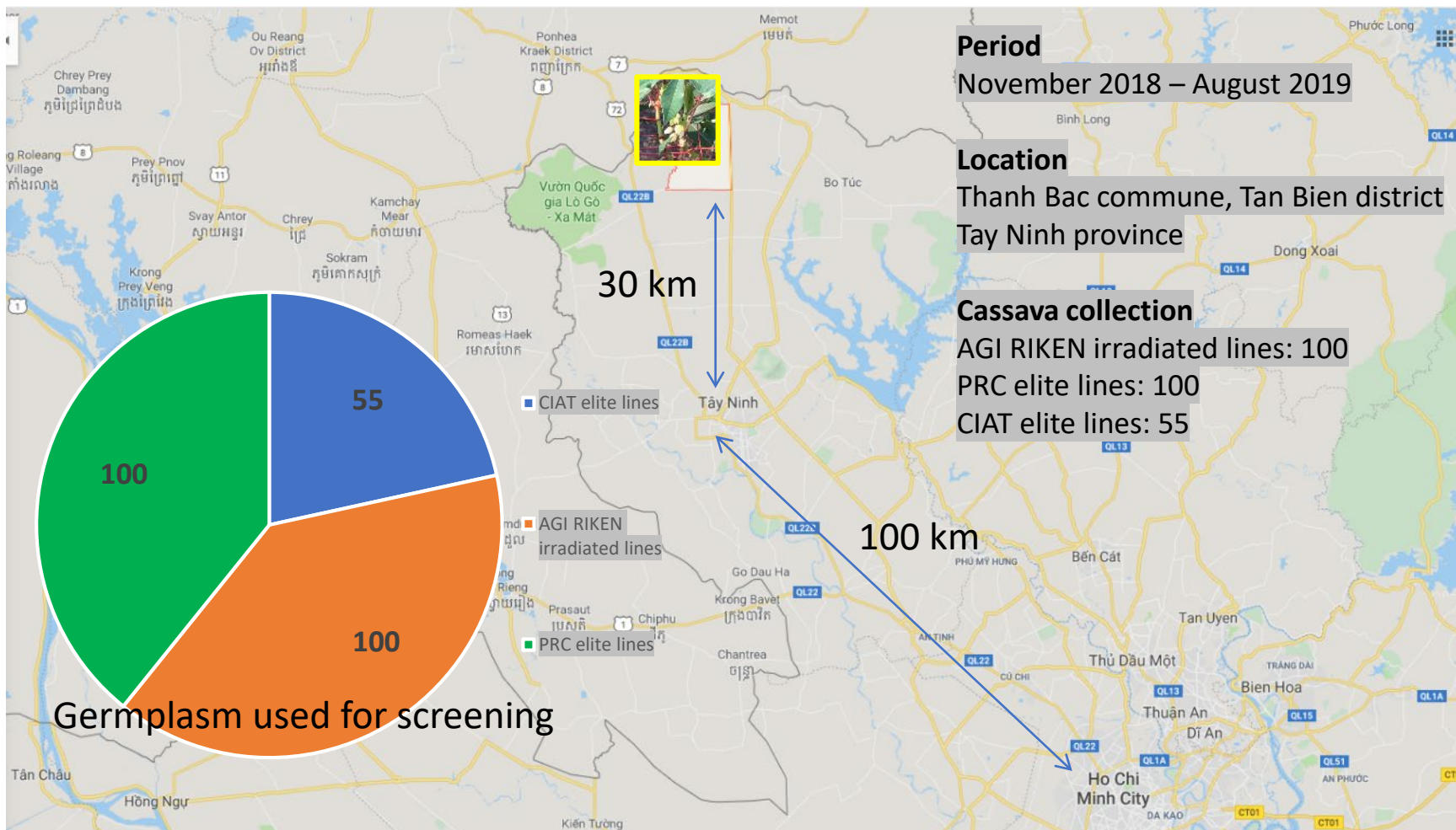
International Laboratory
for Cassava Molecular
Breeding - ILCMB



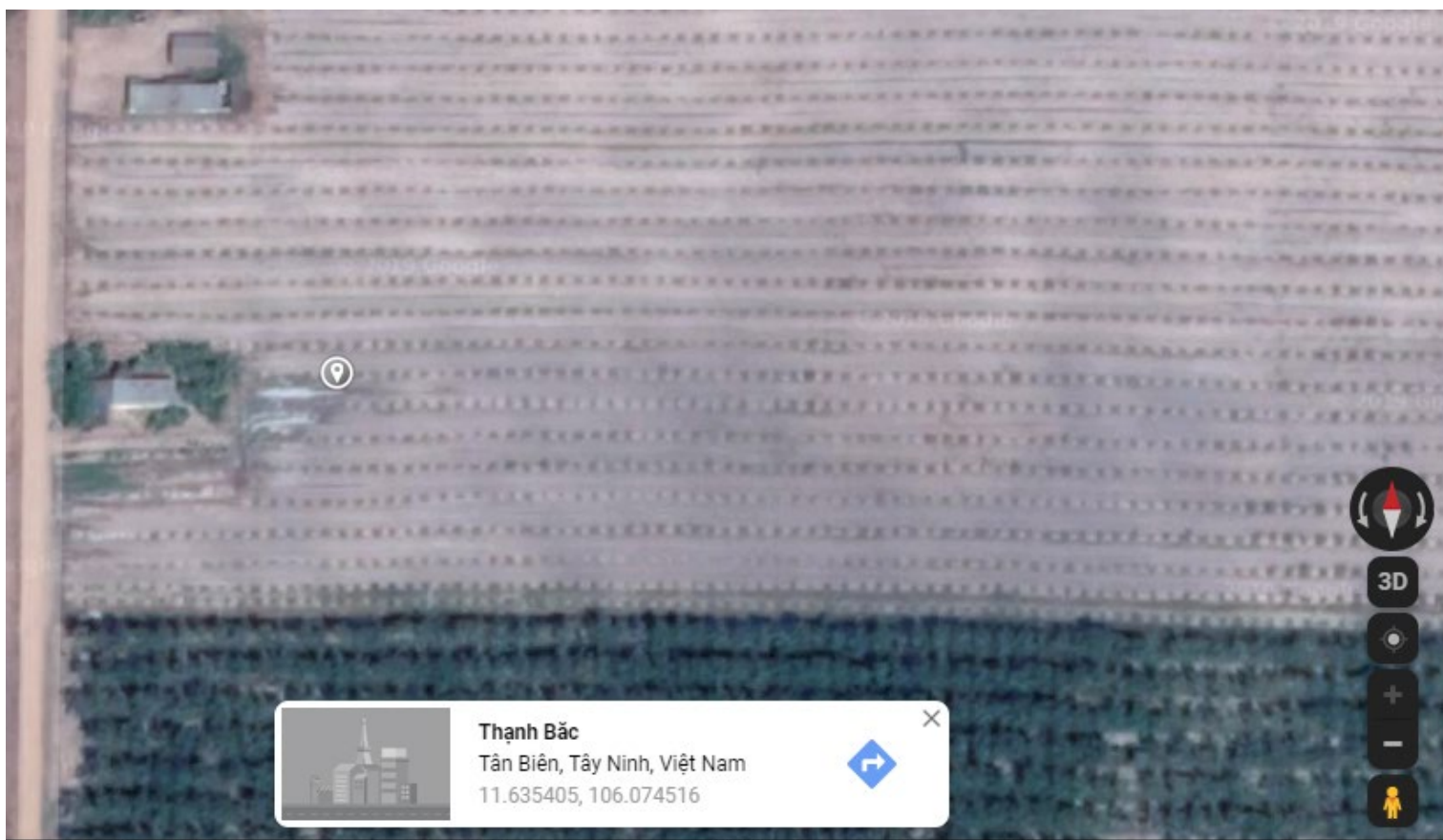
1. Germplasm
2. Clean seed production
3. Cassava biotech
4. Selection and breeding
5. Training and Education



Screening for CMD resistant varieties



1. 30 rows x 200 m
2. 3 repeats of 20 plants (4x5)

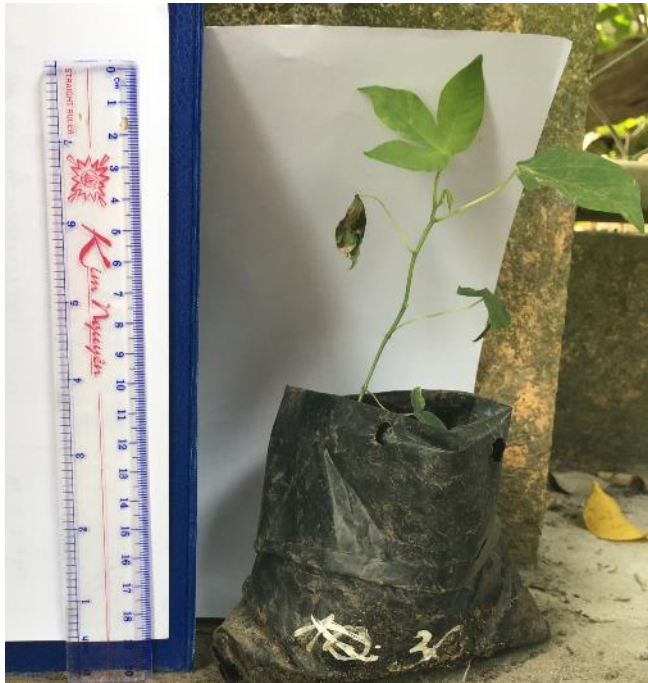


Planting of in vitro plants



In vitro plants 2 months after transplanting to soil pots

In vitro plants are too expensive for cassava



VS



Tissue culture, Acclimation, Transportation, Planting

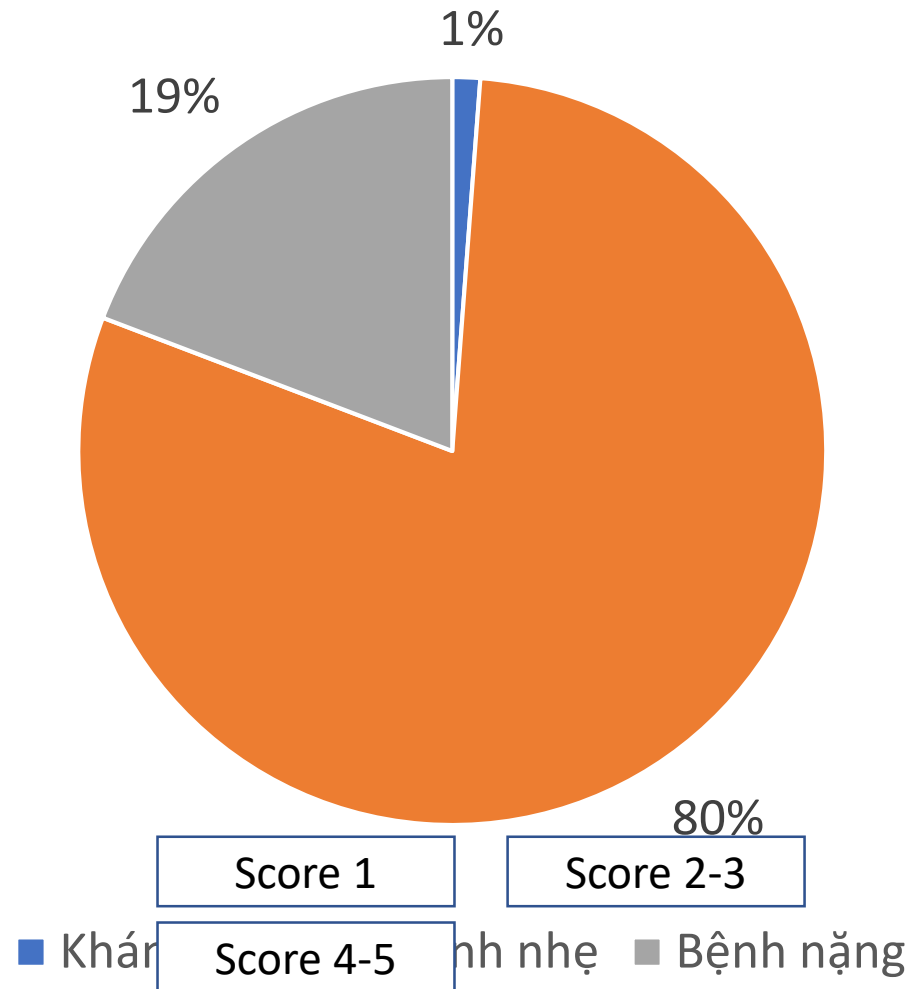
> \$2/plant

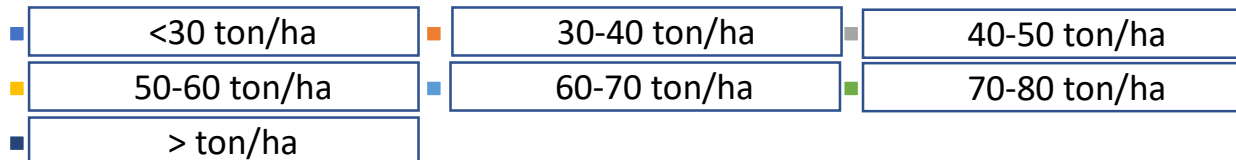
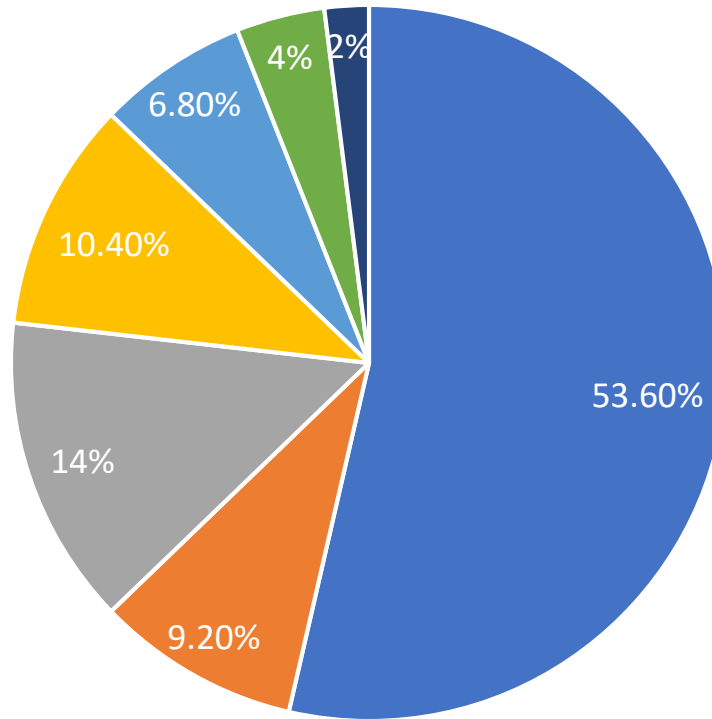
~ \$0,02/plant



Scoring of CMD resistance

- **Score 1 (resistance): 3 lines C-33, S130, SDA43,**
- **Score 2-3: 199 lines**
- **Score 4-5: 48 lines**





Starch content

No.	Starch content	No. of lines
1	20-23%	25 (10%)
2	23-25%	16 (6.4%)
3	25-29%	10 (4%)

1. 116/250 lines yielded > 30 ton/ha
2. 51/116 lines with $>20\%$ starch

Some promising lines

No.	Line	Yield (ton/ha)	Starch (%)	CMD
1	SDA29	49	27.27	2
2	10	45	25.22	2
3	30	48	27.18	2
4	50C263	53	27.74	3
5	27	41	25.59	3
6	50F60	56	24.04	3
7	100C89	52	21.06	3

High yield – low starch







High-yield, High starch



GM 1419- 40

#30 – (SM 1511-6)



#10 (GM 579- 13)





CMD Resistance #18 (C-33)









#19 – (C-39)









Petioless line #2 (GM 3920- 19)







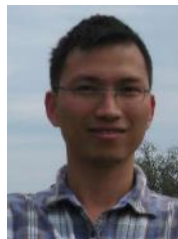
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PGS. Nguyễn Văn Đồng



GS. Lê Huy Hàm



TS. Nguyễn Anh Vũ



TS. Manabu Ishitani



GS. Motoaki Seki



Tống Thị Hương



Nguyễn Hùng



Phạm Thị Hương



Đinh Hồng Phương



Đỗ Như Quỳnh



TS. Nguyễn Hải Anh



TS. Hiroki Tokunaga



Lê Ngọc Tuấn



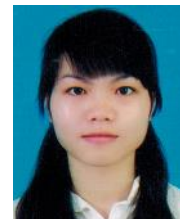
Nguyễn Văn Đạo



N.C.S Sengsoulichan



Vũ Anh Thu



Đỗ Thị Trang

KEY PARTNERS



International Center for Tropical Agriculture



THE PROJECT FOR DEVELOPMENT AND DISSEMINATION OF SUSTAINABLE
PRODUCTION SYSTEM BASED ON INVASIVE PEST MANAGEMENT OF
CASSAVA IN VIETNAM, CAMBODIA AND THAILAND





Thank you for your kind attention