



Pollination Networks of Cacao Agroforestry Systems in Colombia

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**10,000
flowers**

**10 young
fruits**

**1 cocoa
pod**

**1 chocolate
bar**



“It is the best thing that has happened for the **coca-growing families** of Putumayo, that have **made a living from illicit crops** for years because they had **no other option**, but today they want to **change their lives**”

–Ferney Figueroa, social leader promoter of cacao

“This product has **transformed** not only **my life**, but that of **many families** in this territory, because it is an activity that **gives us freedom**”

–Mary Luz Casamachín, a nasa indigenous woman



Why should we care?



A magical place



Cacao

Mangostine

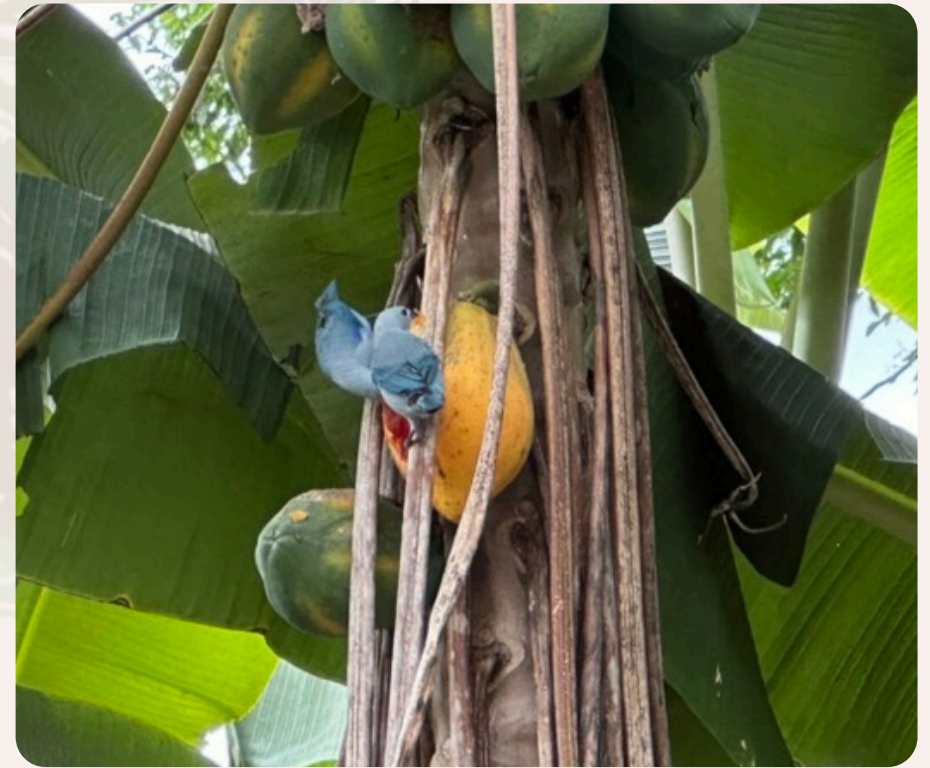


Copoazú



Anón

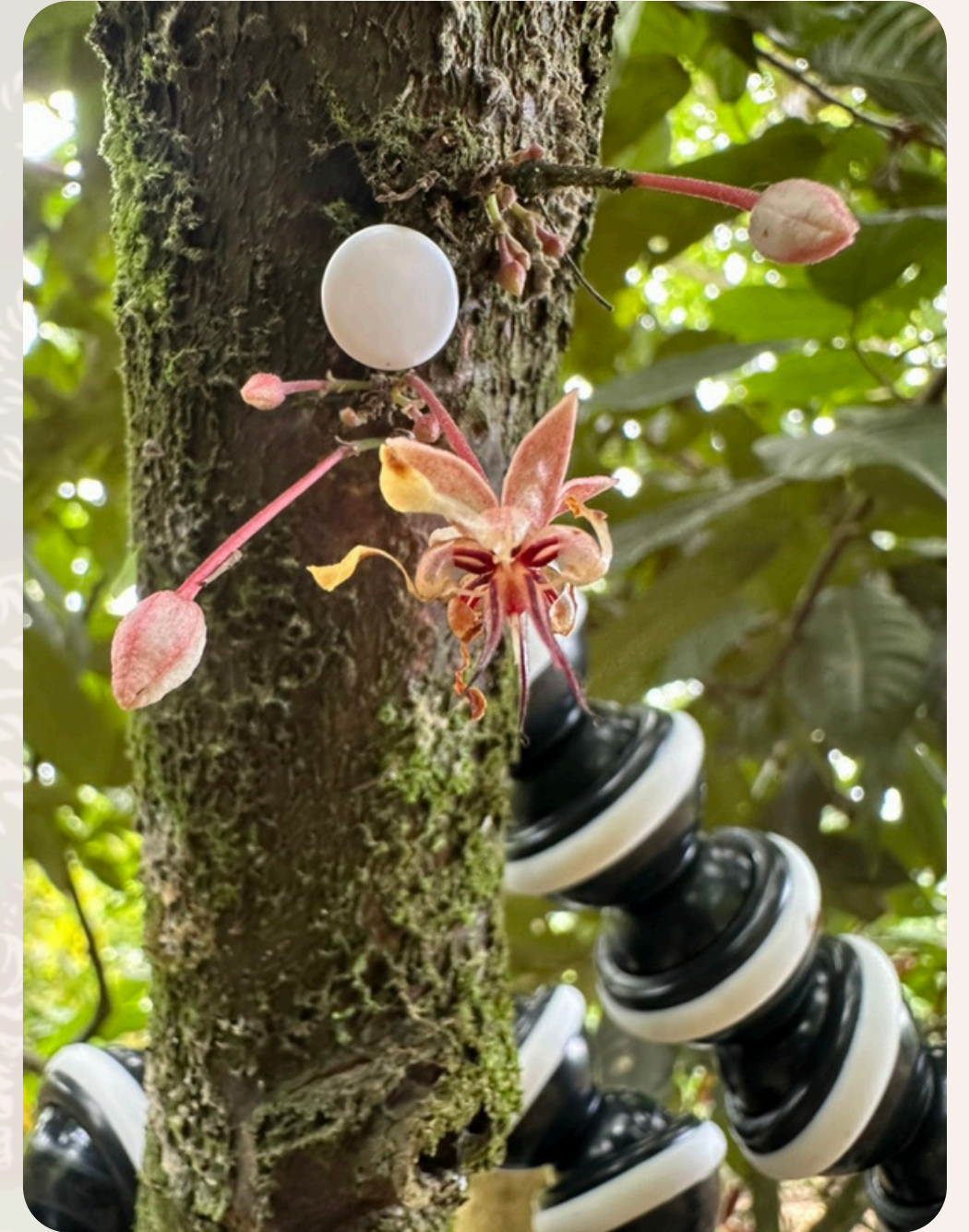
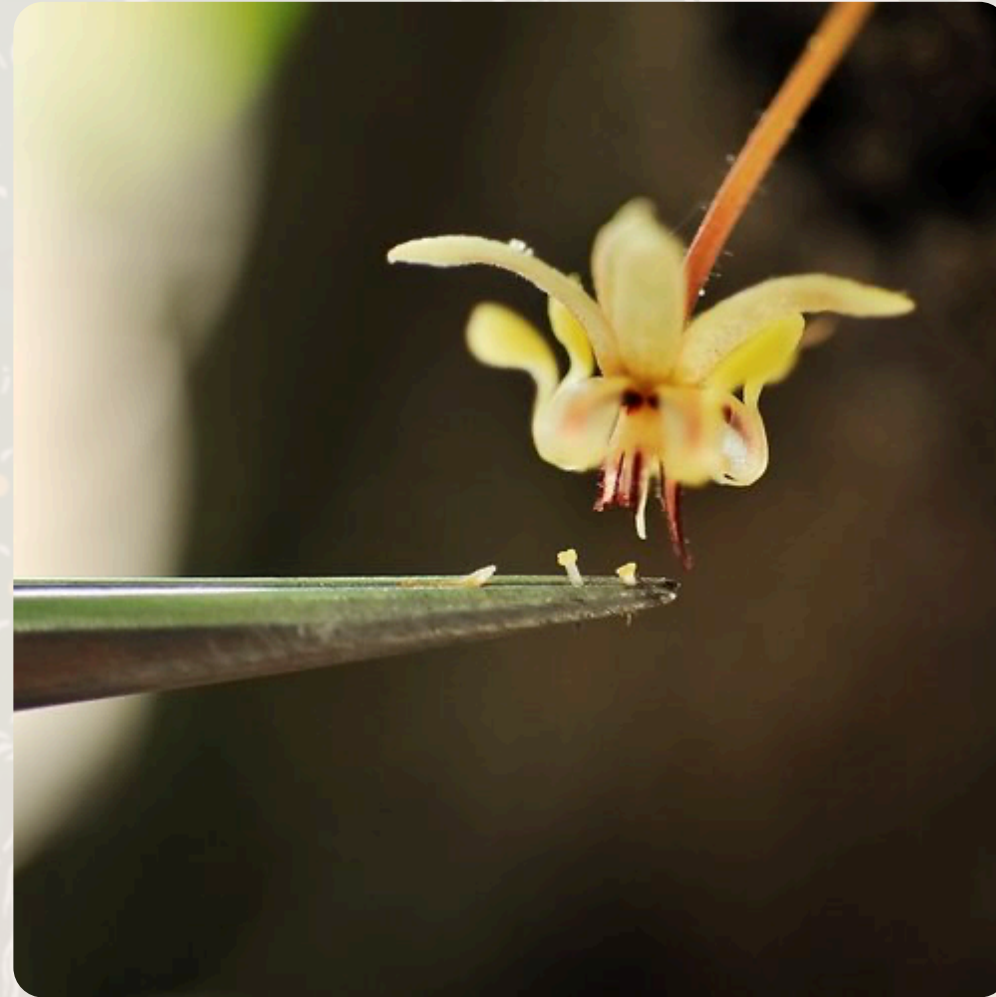
Fruits!



Animals!



Animals!



What did I do?



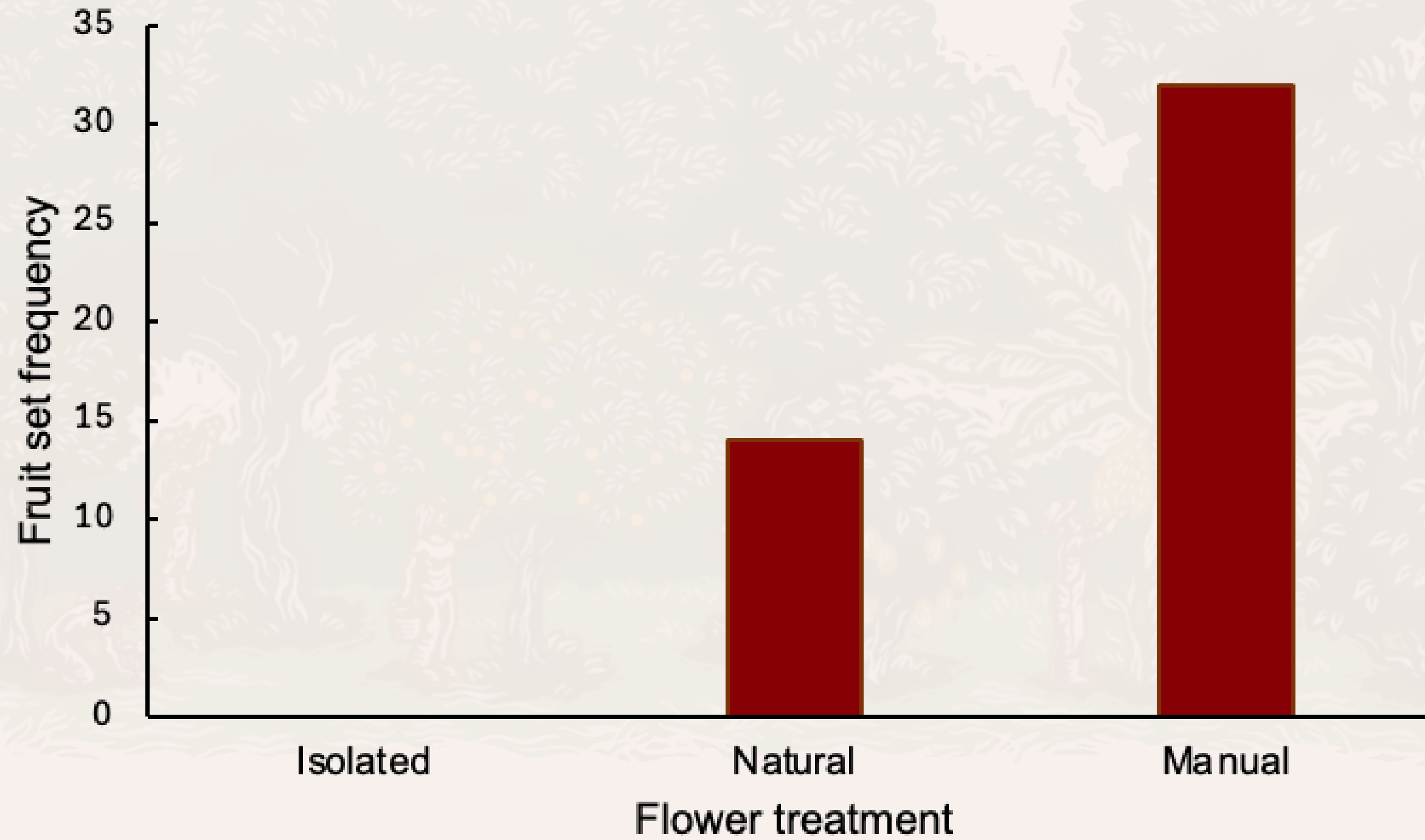
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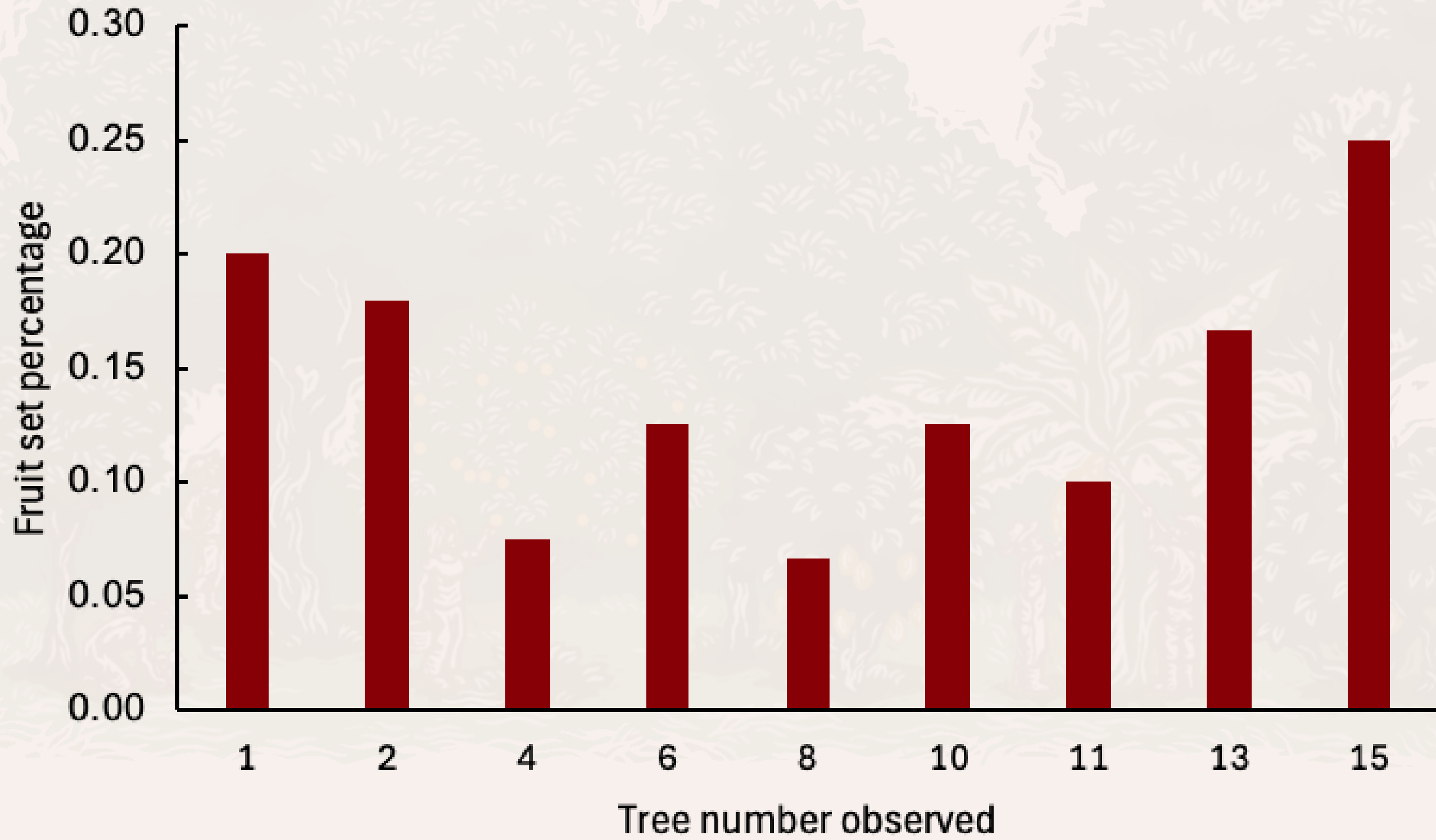
What did I do?



Mosquito bites! (lots)



Key findings



Key findings

- **DNA Barcoding:** identifying 57 tiny collected visitors
- And... what about the pictures?
Deep learning algorithm
- Ultimate goal: proposal of **crop management strategies** that promote **pollinating insects**.



Next steps



Conclusion

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