

Through the mobile app, citizen scientists report the occurrences of 16 species of

Kissing bugs

- | | |
|---------------------------|----------------------------------|
| <i>Triatoma breyeri</i> | <i>T. rubrovaria</i> |
| <i>T. delpontei</i> | <i>T. sordida</i> |
| <i>T. eratyrisiformis</i> | <i>Psammolestes coreodes</i> |
| <i>T. garciabesi</i> | <i>Panstrongylus geniculatus</i> |
| <i>T. guasayana</i> | <i>P. guentheri</i> |
| <i>T. limai</i> | <i>P. megistus</i> |
| <i>T. patagonica</i> | <i>P. rufotuberculatus</i> |
| <i>T. platensis</i> | |

and *Triatoma infestans*



main vector of Chagas disease affecting 8 million people worldwide (1.6 million in Argentina)

Multidimensional health issue

- Biomedical & epidemiological
- Sociocultural
- Political & economical

GeoVin

Public participation in the fight against Chagas disease



Photo of the insect

Take two photos with the app



Geolocate & send

the report to the server



Data gets reviewed

by trained personnel remotely



User is notified

and directed to the nearest health care center



Data is shared

openly and in real-time

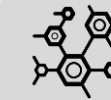
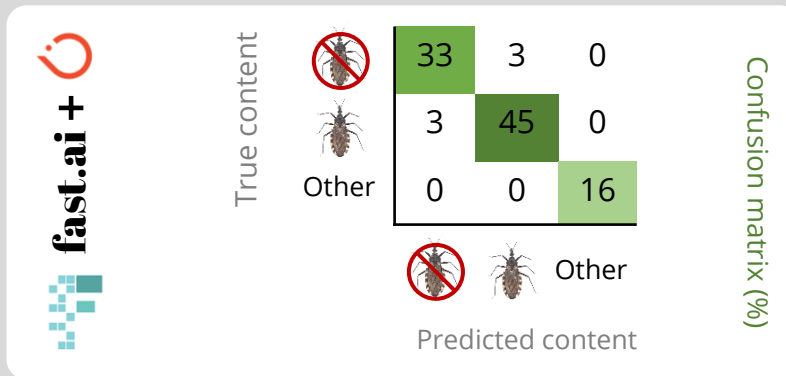


Image recognition

Kissing bug photos collected with cellphones in the field by our citizen scientists were used to train a Convolutional Neural Network

Will be available in the app in 2021!



94% accuracy (so far)!



+ 800 citizen scientists



+ 9000 records from bibliography and fieldwork



+ 950 reports from citizen scientists

geovin.com.ar

@geovin

Cochero, J.; Pattori, L.; Balsalobre, A.; Ceccarelli, S.; Martí, G.

