



Videogames against malaria

Learn through playing

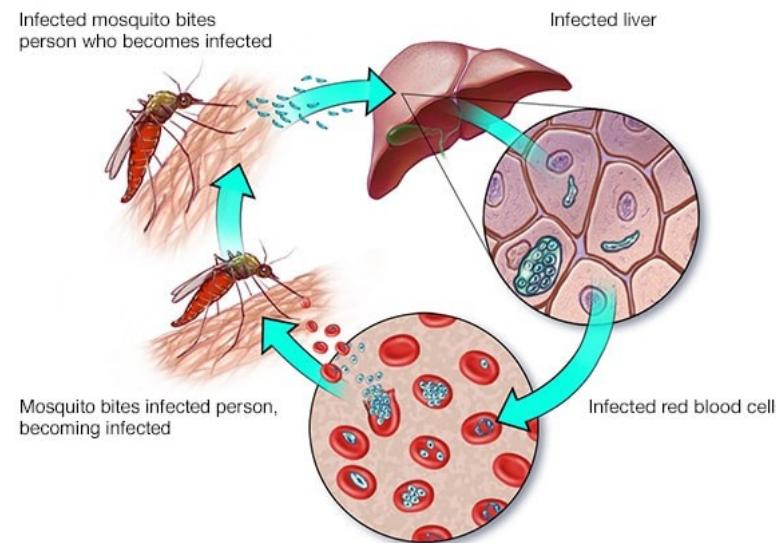
Artificial Intelligence with Clinical Impact

Katherine Chulvi

Malaria as a global health issue



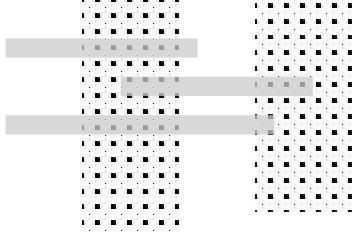
There are over **200 million cases** of malaria every year. **A child dies every minute** from this disease.



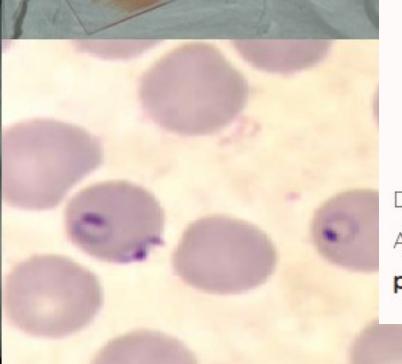
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Malaria is caused by a **parasite** that infects the blood. They are transmitted **by mosquito bites**.



MalariaSpot



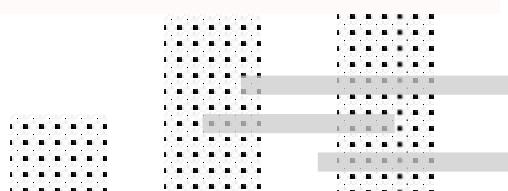
Why play?



Diagnosis time can be **up to 20 minutes**.
A microscopist has to **count all the
parasites** in a blood sample.



MalariaSpot players are “**malaria
hunters**” who could help diagnose
malaria throughout the world.



MalariaSpot Bubbles: The Game



A cartoon illustration of a woman with curly orange hair, wearing a white lab coat over a brown top, pointing her finger towards a large, stylized white ear icon on a red background.

The MalariaSpot logo, which includes a small red fly icon above the word "MALARIA".

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PLAY AND FIGHT MALARIA!

Videogames Olympics Against Malaria

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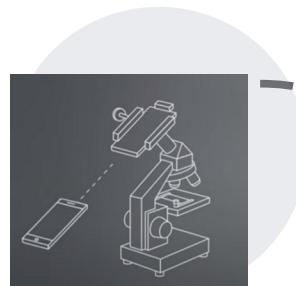
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Technology and Future Applications

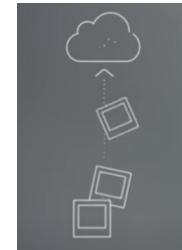
1 Pilot device

Smartphone attached to an optical system



3 Upload samples

All the samples collected are upload to an online platform



5 Collaborative Diagnosis



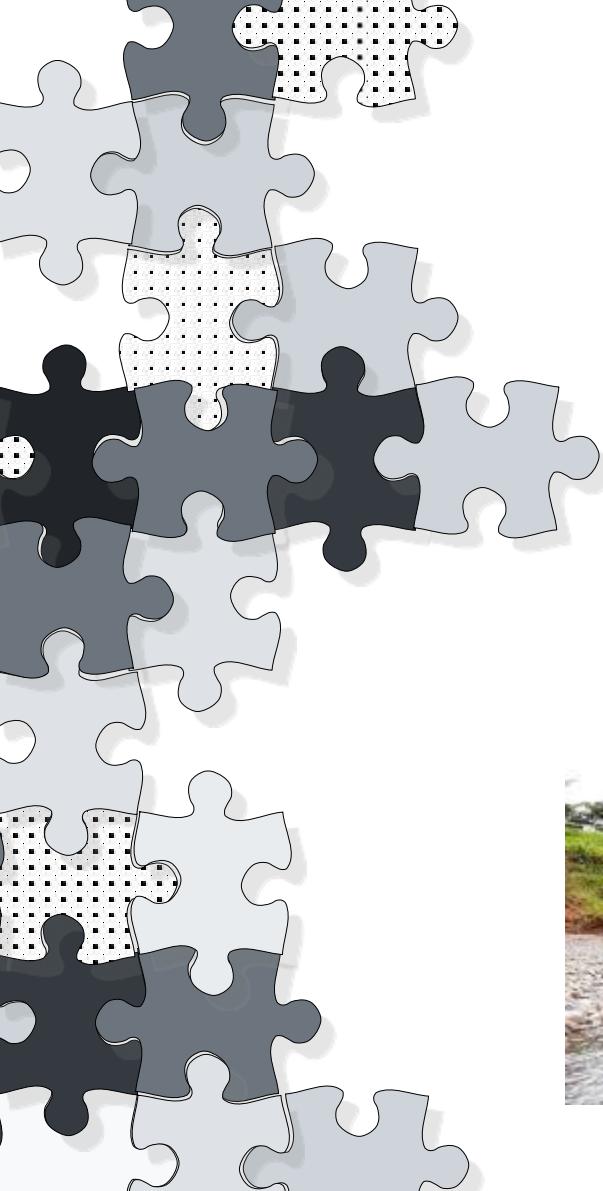
2 Microscope LOWCOST

Images of the blood samples available to be analyzed by MalariaSpot players worldwide

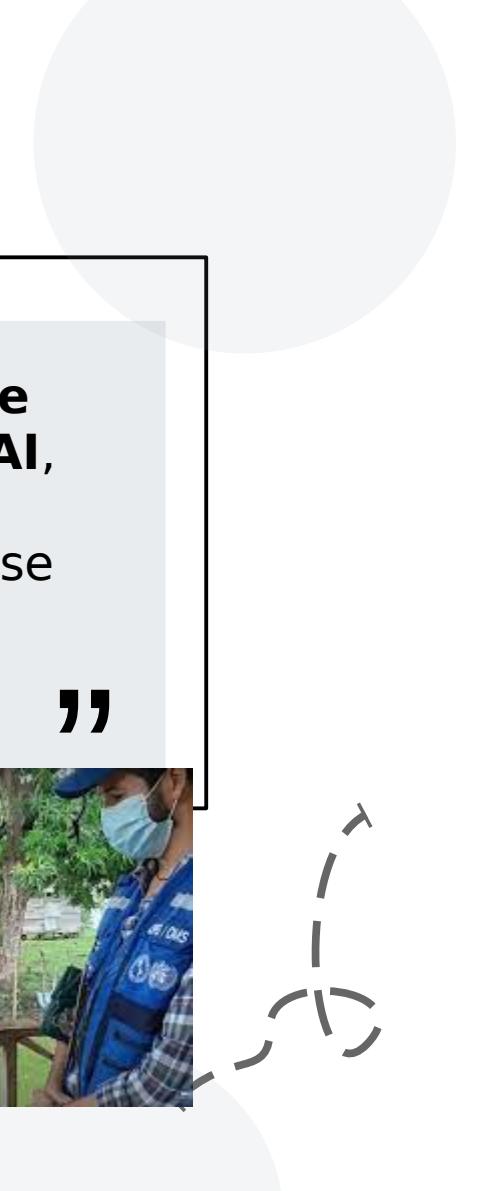


4 Gamers





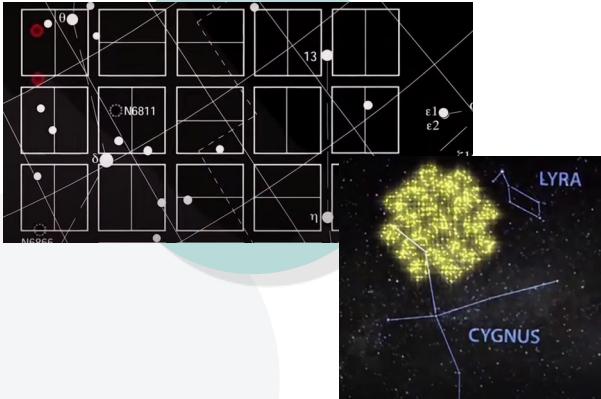
“ Gaming-based **collaborative diagnostics, powered by AI,** can make healthcare more available and ease the disease burden in underserved communities. **”**



Collaborative Diagnostics

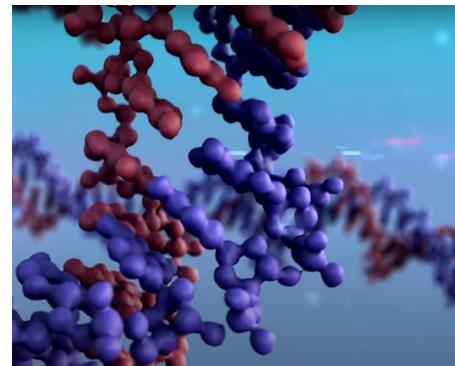


Astronomy



Locating planets using the Kepler probe.

Biology



Analyzing the 3D structure of proteins, akin to a three-dimensional Tetris game.

Solving Complex Problems



Locating the wreckage of the Malaysian plane that crashed into the ocean using satellite imagery..

Conclusions and Future

- **MalariaSpot** represents an innovative solution for the diagnosis of malaria.
- **Collaborative technology using AI** will continue to be an invaluable tool in the fight against diseases, expanding access to diagnosis and improving clinical outcomes.

THANKS!

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<https://malaria-spot.org/en/>