



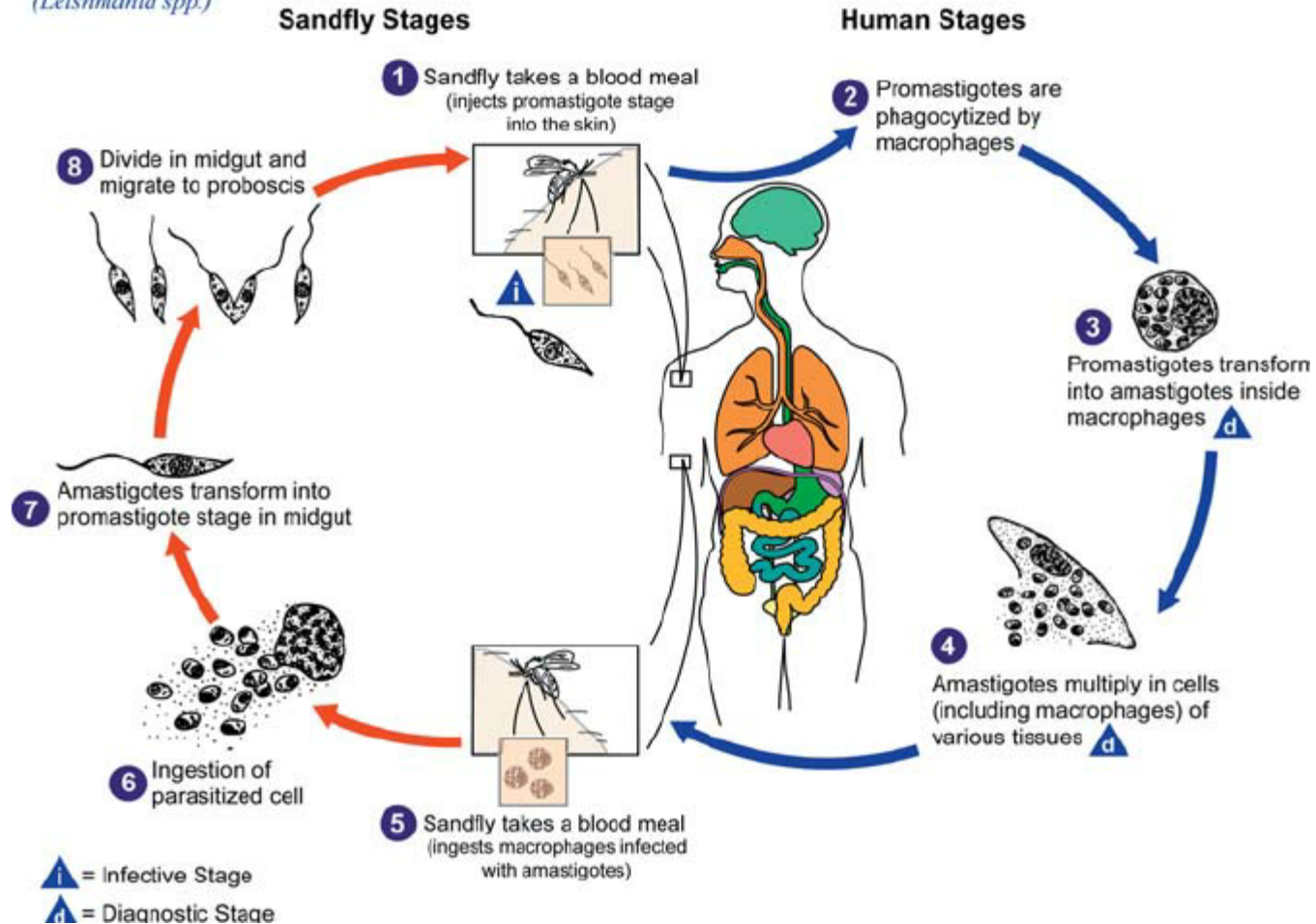
Module 2 summary

Paula, Dina, Yoni and Jean marc

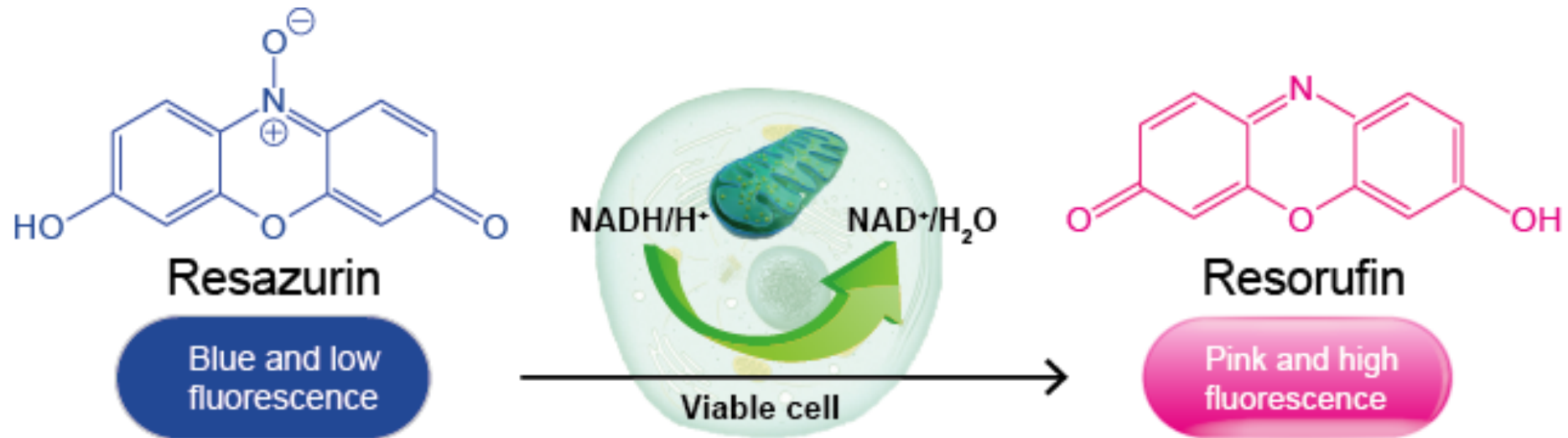
Leishmania

Leishmaniasis

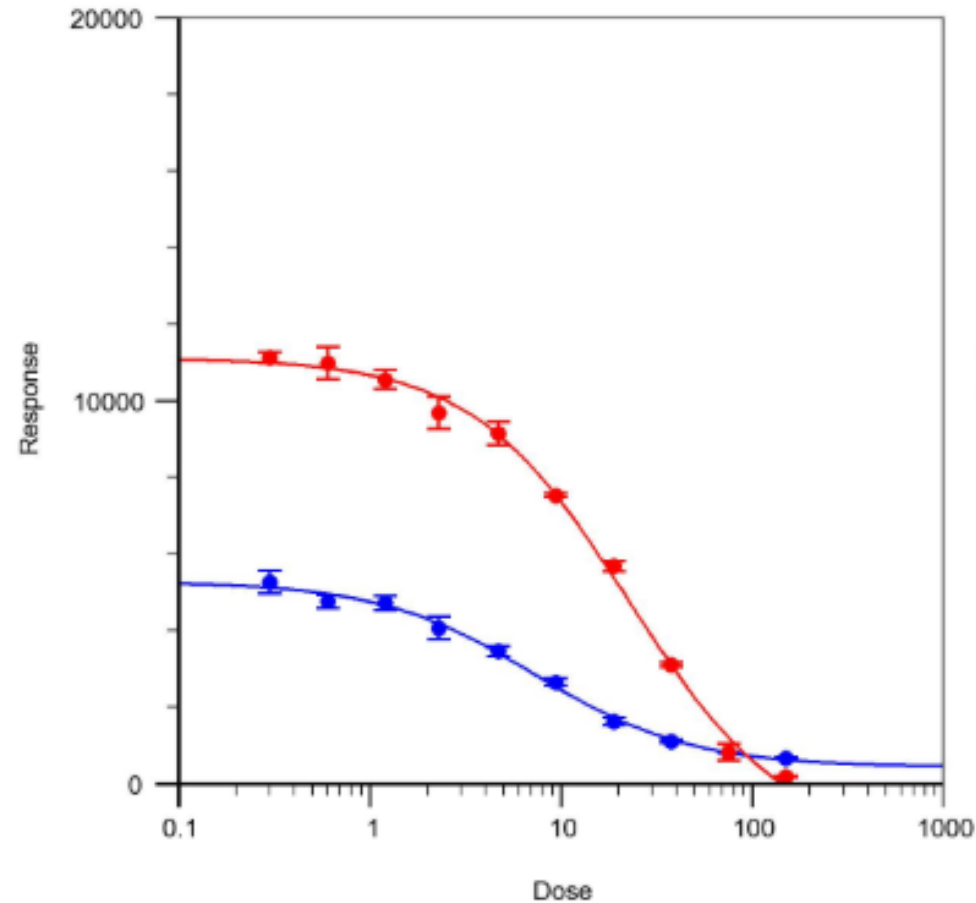
(*Leishmania* spp.)



Alamar Blue assay



Paromomycin drug assay against Leishmania promastigotes



• EC50= 22.717

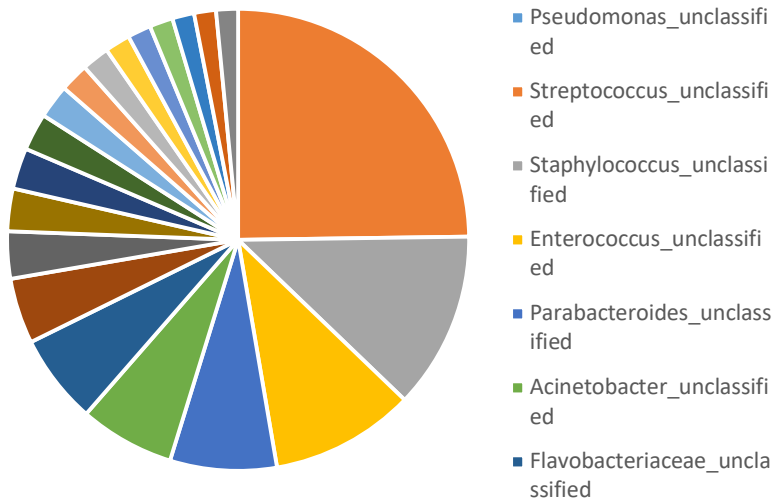
• EC50=7.285

NGS

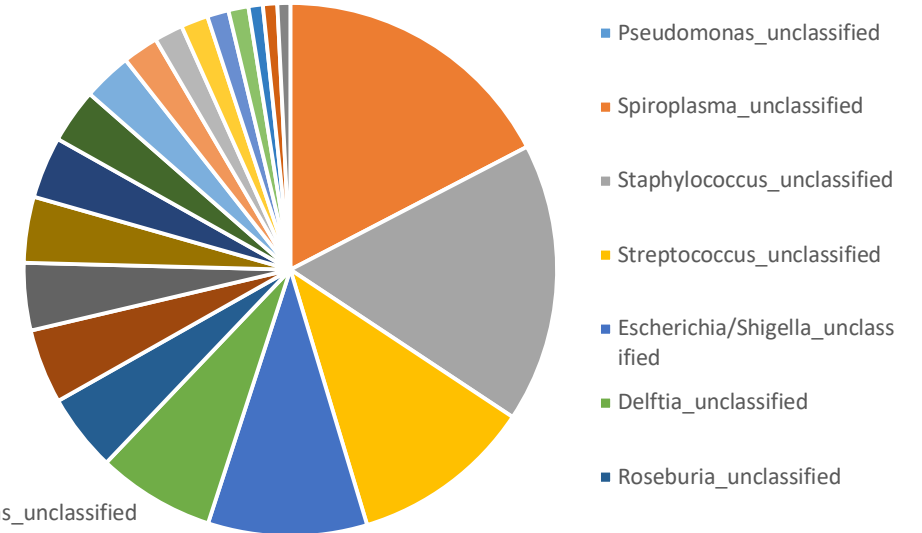
- What are the differences in the microbiome between different countries?

Microbiome in different countries

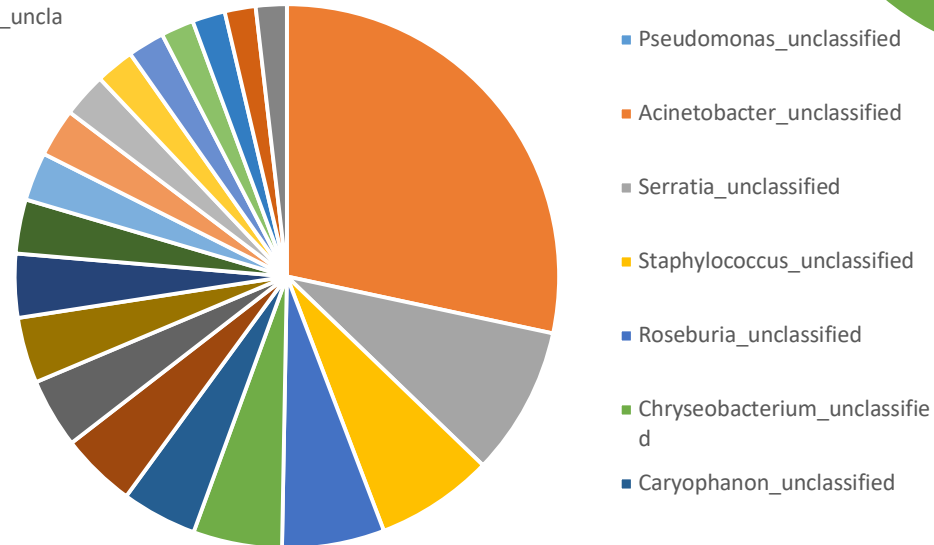
Syria



Israel-Palestine



Sudan

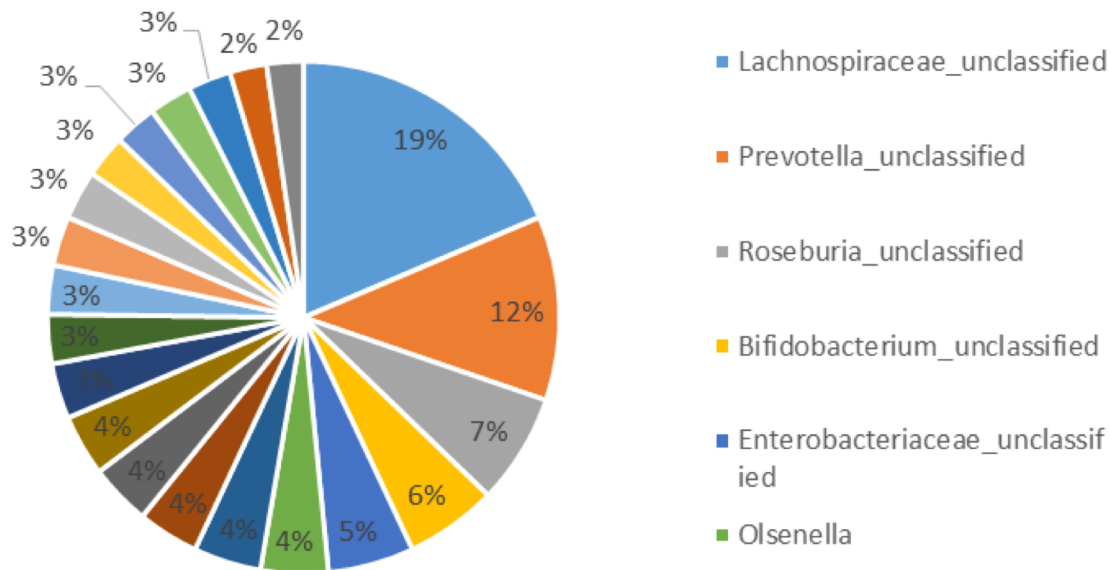


NGS

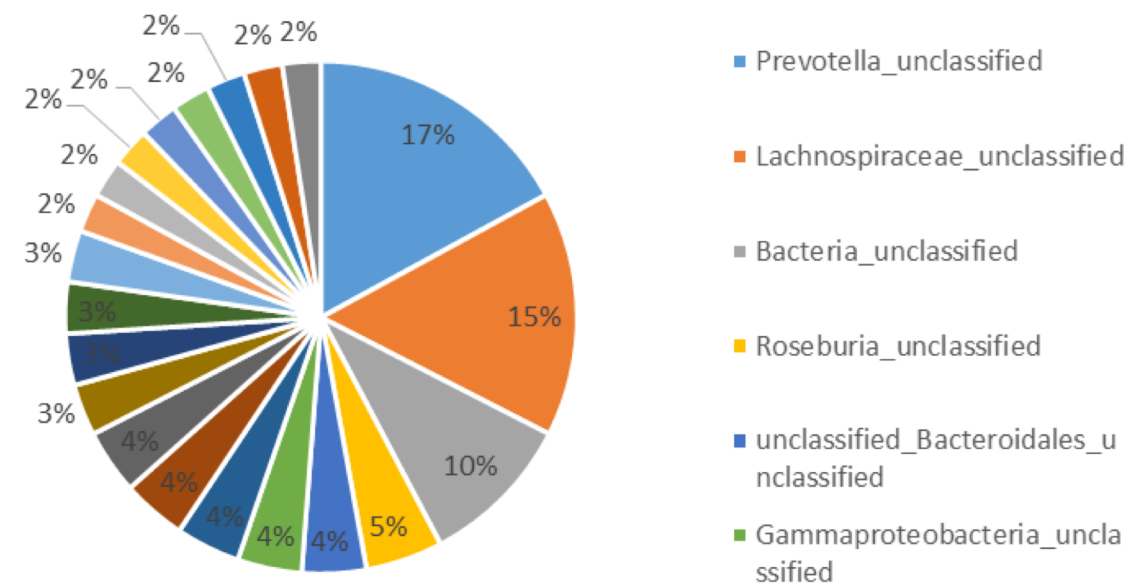
- What are the differences in the microbiome between infected and non-infected sandflies from Israel-Palestine?

sandflies in Israel-Palestine

Uninfected



Infected



Most abundant bacteria

- ***Lachnospiraceae*** – family of bacteria from the clostridia, anaerobic, found in gut of mammals.
- ***Prevotella*** – gram-negative bacteria, recovered from anaerobic infections of the respiratory tract.
- ***Roseburia*** - gram-positive anaerobic bacteria that inhabit the human colon.

Comparison – HRM and sequencing

	HRM	Sequencing
Advantages	<ol style="list-style-type: none">1. Cost effective2. Fast /simple3. More accurate4. Low reagent/sample consumption	<ol style="list-style-type: none">1. More accurate2. Allows identification of more species
Disadvantages	<ol style="list-style-type: none">1. Overestimation (Cyber green dye)2. Close melting point3. Limited to the existing library	<ol style="list-style-type: none">1. Expensive2. Reference genome required

THANK YOU!

