

# MeBoP

## Middle Eastern Biology of Parasitism

BILL & MELINDA  
GATES *foundation*

AWA & TRESOR

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**UNIVERSITÄT  
BERN**

 University of Glasgow | Wellcome Trust Centre  
for Molecular Parasitology

# LAB RESULTS SUMMARY, FIRST WEEK

Comparison between the different  
*Leishmania* identification methods

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Many method are used

- The PCR-RFLP

Amplify the ITS 1 region of *Leishmania* species and apply a restriction enzyme to differentiate the species

- The Sequencing

of the ITS region which may be different from one species to another

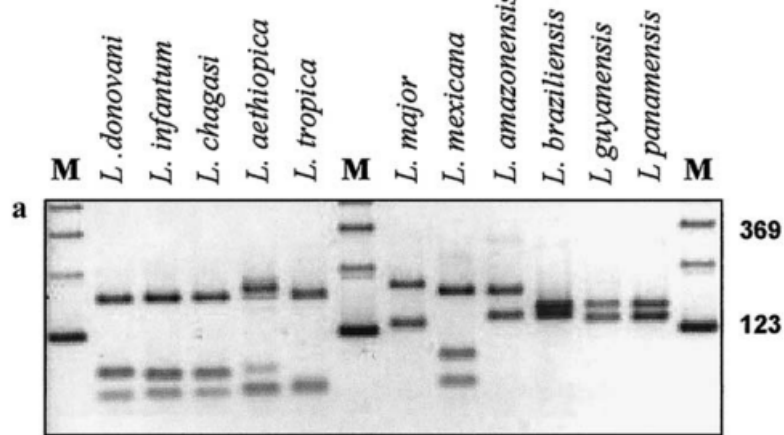
- The RTPCR-HRM

Amplify a sequence of *Leishmania* species with RTPCR and differentiate the species on the base of their specific denaturation temperature

# COMPARISONS

PARAMETERS	METHODS		
	RFLP	SEQUENCES	HRM
SENSITIVITY	++++	++	++++++
SPECIFICITY	++	++++++	++++
TIME SAVING	++++	++	++++++
ACCESSIBILITY	++++++	++++	++++

## SOME ILLUSTRATIONS



Schönian et al., 2003

```
>> BC Economy Run|
>> 9212906 2766571
>> 6MeP
>>
TCCATCGCGACACGTTATGTGAGCCGTTATCCACACACGCACCCACCCCGCCAAAAACCGAAACGCCGTATATTTTTGTAT
AAACGGACATTTTTGCTTTTGTATAGGCGGTGCGTTATAACGTCGATCGGCCTTTTTTTTACTGCAAATTTGAGTACAAAA
CTTTGCTGTGTATGTGGGAAAGGCCTACATATATATACATAGGTCTCCCCGAGTTGTATATGTTTTTTGGGTGTAATCATCG
GAAAATGATCCAG
>>
>>
>> BC Economy Run
>> 9212907 2766572
>> 7MEP
>> NNNNN
>> Poor quality sequence. Your sample will be re-sequenced using a different protocol. We will inform you
>> about the new sequencing result the next working day.
>>
```

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