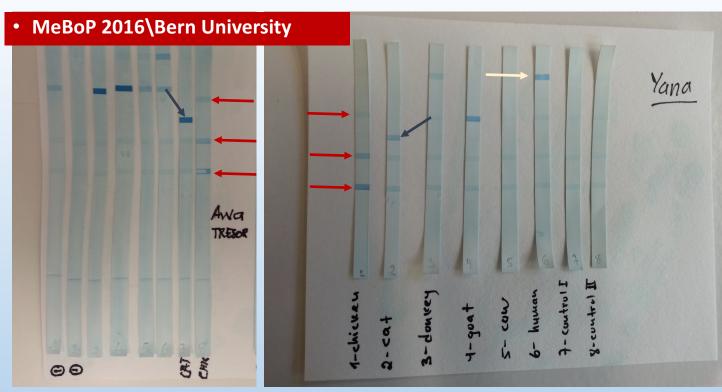
# Blood meal analysis by Reverse Line Blot (RLB)

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### Goals:

Identification of host species by analysis of blood meals using RLB.

4 blood meal sand fly samples **DNA Extraction** PCR amplification of mammalian cytochrome b gene Immobilization of species specific mammalian probed to Biodyne C membrane DNA hybridization between the amplified PCR products and the membrane bound probes Detection of bound biotinylated PCR product.







1. Human	3. Donkey	5. Goat	7. Cat	9. Chicken	11. Avian 1
2. Human	4. Cow	6. Camel	8. Dog	10. Sheep	12. Avian 1

**Red Arrows** = chicken samples ; **Blue Arrows** = cat samples ; White arrows = human

## Advantages:

- 1. More sensitive.
- 2. Cheap.
- 3. Low PCR product.

## Disadvantages:

- 1. Cross contamination.
- 2. Takes more time.