**Vietnámi mintagyűjtés**

Provinces (3)

**Hanoi capital**

**Son La Province (a Northwest mountainous province, far from Hanoi 300 km)**

**Thai Nguyen Province (a Northeast mountainous province, far from Hanoi < 200 km)**

Seasons (2) **Summer** - from May or June to August **Autumn** - from August to November

Blood samples **(1200)**

**50 blood samples/animal species** (**cattle, buffaloes, goats and horses)/season/province**

**Tanszékre érkezett minták vizsgálata**

Haemoparasites found in **116 DNA extractions** from animal blood

Piroplasms 21/116 (18.1%) 20 sequenced

*Babesia bigemina* (3), *Theileria orientalis* (6)*,* *Theileria annulata* (2), *Theileria buffeli* (1), Theileria cf. velifera(1) *Theileria equi* (7)

6 cattle Hanoi Ba Vi Tan Linh

3 cattle Hanoi Gia Lam Phu Dong

2 horse Hanoi Gia Lam Phu Dong

3 buffalo Hanoi Gia Lam Phu Dong

4 horse Son La Song Ma

1 goat Son La Song Ma

1 buffalo Thai Nguven Dai Tu Phu Luong

1 cattle Thai Nguven Dinh Hoa

Anaplasma sp. 29/116 (25.0%) 17 sequenced

*Anaplasma marginale* (12)

*Anaplasma platys* (3)

Trypanosoma sp. no

Thanh: I sent 10 samples to sequencing, most of them are Theileria **(T. orientalis; T. equi/T. buffali**) and some are **Babesia bovis**. For Anaplasma, 10 samples, **A. platys, A. margible, A. boolense.**

Result of ticks (421)

**Hanoi**  4 cattle (Ba Vi Tan Linh 10 ticks) *Rh microplus*

6cattle (Ba Vi Minh Chau 170 ticks) *Rh microplus* (*Rh sanguineus*)

1 cattle (Thanh Tri Yen My 36 ticks) *Rh microplus*

**Son La** 1 cattle (Song Ma Muong Hu 35 ticks) *Rh microplus + Haemaphysalis*

**Thai Nguyen** 1 cattle (Dinh Hoa Linh Thong 161 ticks) *Rh microplus*

*Rhipicephalus (Boophilus) microplus*: 51 males, 285 females, 10 nymphs, 2 larvae

*Rhipicephalus sanguineus*: 44 males, 25 females, 3 nymphs

*Haemaphysalis cornigera:* 1 female

*Haemaphysalis* sp. 1 damaged

Tabanids (42)

**Thai Nguyen 4 buffalo** (Dai Tu Cat Ne 37)

**3 buffalo (**Dinh Hoa Dong Thinh 3)

**1 buffalo (**Dinh Hoa Linh Thong 1)

**Hanoi 1 buffalo** (Thanh Tri Yen My1)

Flies (299)

**Thai Nguyen (3) 254**

**Hanoi (1) 45**