

OIE REGIONAL VIRTUAL TRAINING
WORKSHOP ON MOLECULAR EPIDEMIOLOGY
TECHNIQUES (MET) FOR RABIES
3RD DECEMBER 2021, 2-5PM JST

MEMBER UPDATES ON PHYLOGENETIC ANALYSIS SINCE VIRTUAL TRAINING IN OCTOBER

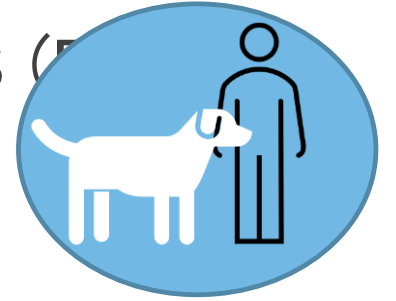
SUMMARY



WORLD ORGANISATION FOR ANIMAL HEALTH
Protecting animals, preserving our future



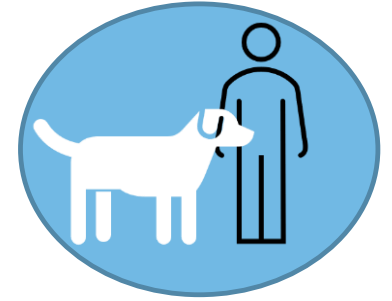
SEQUENCE AVAILABILITY AND PHYLOGENETIC ANALYSIS (PA) OF RABV



- Myanmar: 3 N, 1 G, **SEA3**
- Thailand: 9 N and 58 G, PA well done and show **SEA3** predominant and **SEA1** in north
- Vietnam: 23 N and 23 G, PA well done and show **SEA1 predominant**, SEA3 and **Cosmo other**(2007)
- Malaysia: 17 full genome seq, PA shows two type, **SEA3 and SEA1**
- Philippines: 154 N and 425 G, PA shows **SEA 4**.
- Indonesia: 1 N and 2 G,

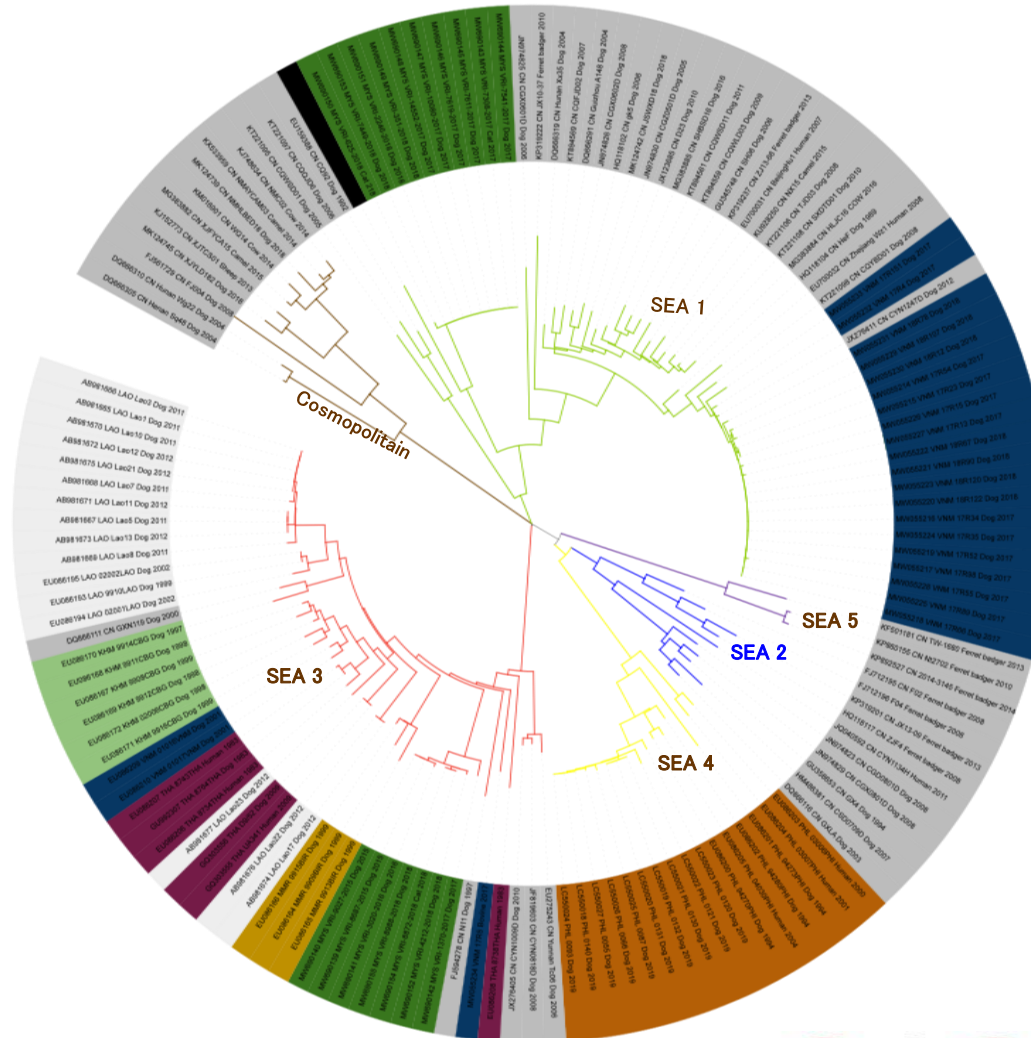
PHYLOGENETIC ANALYSIS OF FULL N GENE

Tree scale: 0.1



Country code

- CN: SEA 1,2,3,5, Cosmo
- IDN: SEA1
- MYS:SEA1 ,3
- VNM:SEA1,3, Cosmo
- PHL:SEA4
- THA:SEA3, 1
- MMR:SEA3
- LAO:SEA3
- KHM:SEA3



country	N complete cds
Philippines	16
Thailand	6
Vietnam	23
Indonesia	1
Cambodia	6
Laos	16
Myanmar	3
Malaysia	17
China	56

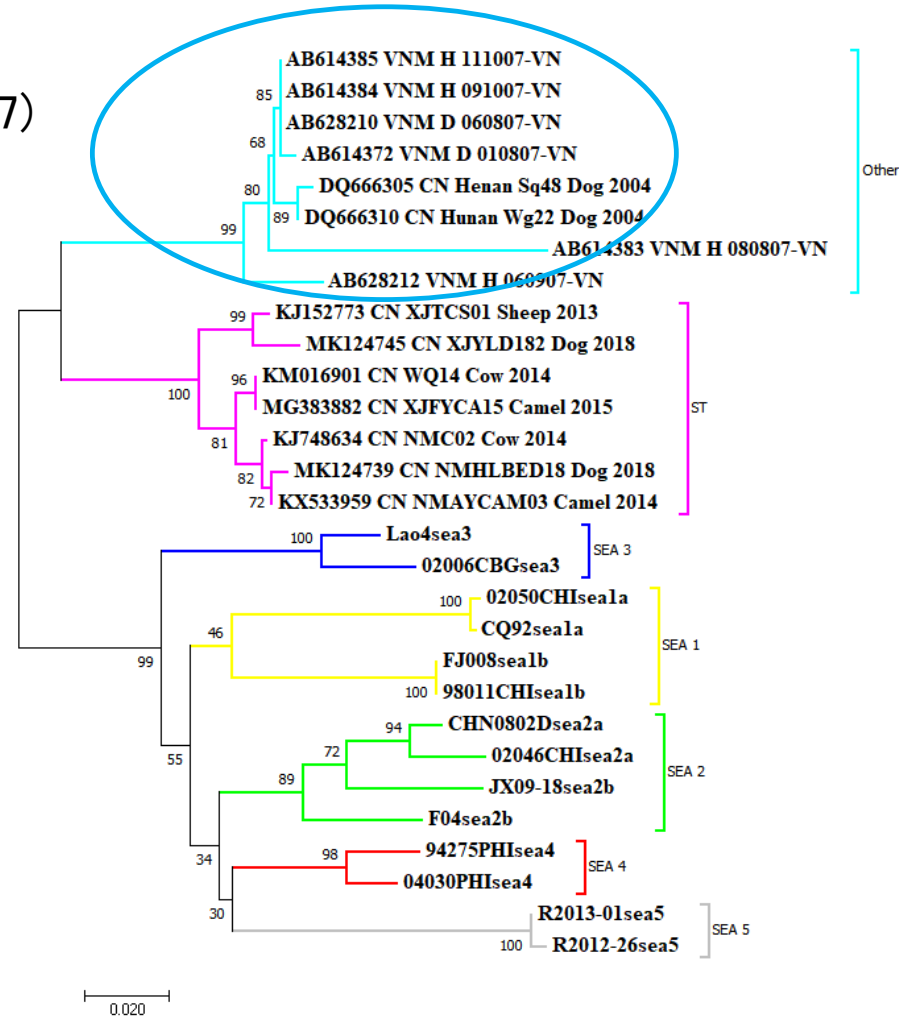


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PHYLOGENETIC ANALYSIS OF FULL N GENE

Tree of 6 Partial N genes (399 nt) from VNM (2007)

Other subclade in Cosmopolitain



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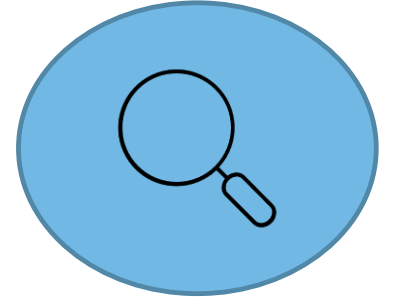
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CHALLENGES

- Availability of samples
- PA capacity and human resources
- Budget
- Sequencing service
- Others: equipment, government support

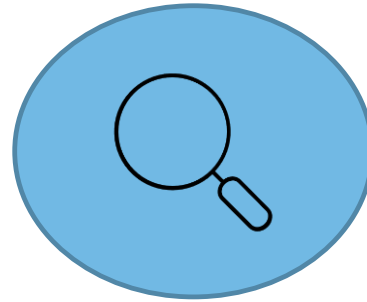
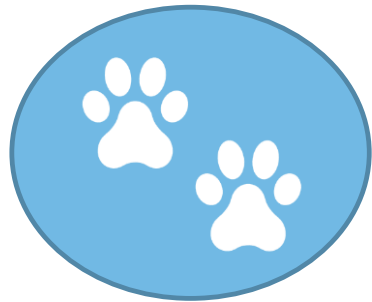
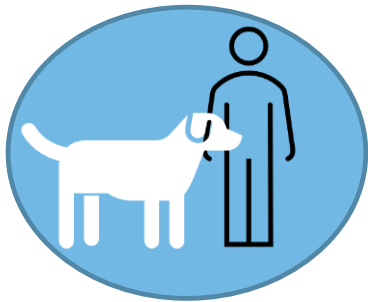


FUTURE PLAN



- All participants are willing or have plan to carry out PA in their countries

THANK YOU FOR YOUR ATTENTION



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