Dottorato di ricerca in Scienze Veterinarie XXXVIII CICLO - Anno di corso: 1°
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DETECTION AND CHARACTERIZATION OF *ADENOVIRIDAE* IN PSITTACINE BIRDS

Objective: A **PCR survey** was conducted for Adenoviruses detection and characterization from one Psittacine birds flock.

Materials and Methods: **Eighty Psittacine birds** from six species were sampled by cloacal swabs. DNA was extracted. Extracted DNAs were screened for Adenoviruses using a **nested PCR protocol** which amplifies the partial ***pol* gene**. Amplicons were purified, sequenced and a phylogenetic tree (Figure 1) was constructed including all available sequences retrieved from *GenBank*® database.

Results:

Psittacine birds species	N° of birds sampled	N° of positive samples	Adenovirus species detected			
			PsAdV-2	PsAdV-5	DAdV-1	N.C.
Agapornis roseicollis	14	9	5	2	1	1
Cyanoramphus novaezelandiae	41	38	37	-	1	-
Nymphicus hollandicus	12	7	5	-	1	1
Psephotus dissimilis	3	3	3	-	-	-
Psephotus haematonotus	4	3	1	-	-	2
Psittacula krameri	6	3	1	-	2	-
	80	**63 (78,8%)**	**52 (82,5%)**	**2 (3,2%)**	**5 (7,9%)**	**4 (6,4%)**

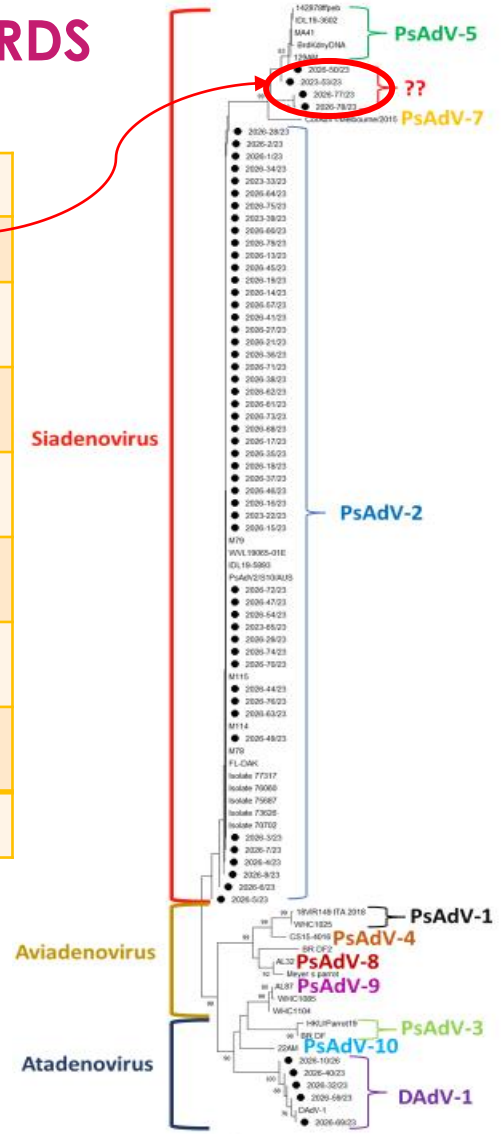

Fig. 1: Phylogenetic tree

Conclusions ad future proposal: **Heterogenicity** of Adenovirus species was found in a single population. The data obtained allow to broaden the limited information available on Psittacine Adenovirus epidemiology. **Unclassified Adenoviruses** belonging to Genus Siadenovirus **were found** that deserves further investigations.

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