



# World Budgerigar Organisation Karlsruhe Meeting

Carlos Fernando Ramôa 23 august 2019





- According to the guidelines approved by the 2017
  WBO Meeting in Budapest, the study began with
  the preparation of the strategy to be applied to the
  study in order to begin the practical work.
- At the 2018 WBO Meeting in South Africa, i passed on the request from the university to have live birds supplied for the study and communicated the overall strategy for the study.

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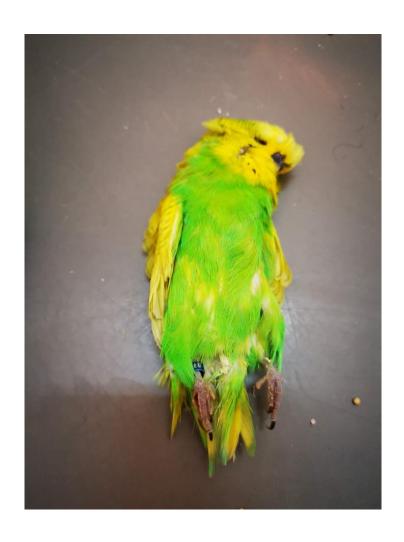
 After that meeting, a consignment of birds from England (24 birds) was delivered to the lab in January 2019.

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Some of the photos of the birds supplied



































 According to the planned procedure, out of the 24 birds, PCR tests were made on 16 of them both for Polyomavirus and Circovirus.

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Here are some of the results sheets:



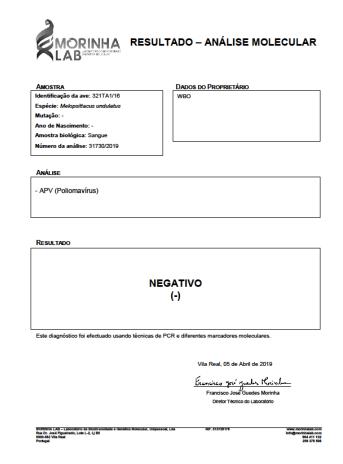




MORINHA RESULT	TADO – ANÁLISE MOLECULAR				
Amostra	DADOS DO PROPRIETÁRIO				
dentificação da ave: SAMPLE 1	WBO				
spécie: Melopsittacus undulatus lutação: -					
no de Nascimento: -					
mostra biológica: Sangue					
lúmero da análise: 31729/2019					
Análise					
PBFD (Circovírus dos psitacídeos)					
RESULTADO					
POSITIVO (+)					
ste diagnóstico foi efectuado usando técnicas de P	CR e diferentes marcadores moleculares.				
	Vila Real, 05 de Abril de 2019  Econópico "gro" youther Recordina Francisco José Guedes Morinha Diretor Térnico de Laboratorio				







MODINUA PERIII	TADO — ANÁLISE MOLECIJI AR				
LAB ROPERS MICHIGAN	TADO – ANÁLISE MOLECULAR				
AMOSTRA dentificação da ave: Sample 2	DADOS DO PROPRIETÁRIO WBO				
Espécie: Melopsittacus undulatus Iutação: -					
no de Nascimento: -					
mostra biológica: Sangue Número da nálise: 31730/2019					
Análise					
PBFD (Circovírus dos psitacídeos)					
RESULTADO					
POSITIVO					
(+)					
Este diagnóstico foi efectuado usando técnicas de P	CR e diferentes marcadores moleculares.				
	Vila Real, 05 de Abril de 2019				
	Econolico gos guellos Moinha Francisco José Guedes Morinha				
	Francisco Jose Guedes Morinha				

Diretor Técnico do Laboratório







0.					
MODINIHA RESULT	TADO – ANÁLISE MOLECULAR				
LAB ROWN MICHIGAN	TADO ANALIOL MOLLOGLAN				
AMOSTRA	DADOS DO PROPRIETÁRIO				
dentificação da ave: SAMPLE 5	WBO				
spécie: Melopsittacus undulatus lutação: -					
no de Nascimento: -					
mostra biológica: Sangue lúmero da análise: 31733/2019					
Análise					
AMALISE					
PBFD (Circovírus dos psitacídeos)					
RESULTADO					
POSITIVO					
(+)					
	` '				
Este diagnóstico foi efectuado usando técnicas de P	CR e diferentes marcadores moleculares.				
	Vila Real, 05 de Abril de 2019				
	5				
	Exemples you yearles Krinks				
	Francisco José Guedes Morinha Diretor Técnico do Laboratório				





 The results from these tests were somewhat surprising, since all of the birds tested POSITIVE for Circovirus (PBFD-Psitaccine beak and feather disease) and all tested NEGATIVE for Polyomavirus (APV).

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- At this stage it was decided not to proceed to sequence the strains of viruses found, and analyze the possibility that all the birds in the consignment were contaminated between them, since they were transported in the same box for some days.
- It was decided to wait for more blood samples obtained from some breeders in Germany, Austria and Hungary, from different breeders and birdrooms

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 A total of 17 blood samples arrived in june 2019 and were recently tested both for Polyomavirus and Circovirus and some results are already available:

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sample 28 - AUSTRIA



2	
MORINHA	RESULTADO – ANÁLISE MOLECULA

LAB	
Amostra	DADOS DO PROPRIETÁRIO
dentificação da ave: SAMPLE 28	WBO
Espécie: Melopsittacus undulatus Mutação: -	
no de Nascimento: -	
mostra biológica: Sangue	
lúmero da análise: 40222/2019	
Análise	
PBFD (Circovírus dos psitacídeos)	
RESULTADO	
NESCEI/EO	
NEG	GATIVO
	(-)
Este diagnóstico foi efectuado usando técnicas de F	PCR e diferentes marcadores moleculares.
	Vila Real, 16 de Agosto de 2019
	Econoiser you' guedes Horinha
	Francisco José Guedes Morinha
	Diretor Técnico do Laboratório



sample 29 - AUSTRIA





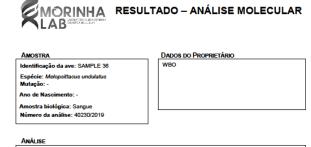
sample 35 - GERMANY



AMOSTRA	DADOS DO PROPRIETARIO
IAMOS INA Identificação da ave: SAMPLE 35 Espécie: Melopatitacus undulatus Mutação: - Ano de Nascimento: - Amostra biológica: Sangue Número da análise: 40228/2019	WBO
Análise	
- APV (Poliomavírus) - PBFD (Circovírus dos psitacídeos)	
RESULTADO	
NE	GATIVO (-)
Este diagnóstico foi efectuado usando técnicas de	PCR e diferentes marcadores moleculares.

Exemples Yes yearly New Medical Francisco José Guedes Morinha
Diretor Técnico do Laboratório

sample 39 - GERMANY



RESULTADO  NEGATIVO (-)	- PBFD (Circovírus dos psitacídeos)	
NEGATIVO	D	
	RESULTADO	
(-)	NE	
		(-)

Este diagnóstico foi efectuado usando técnicas de PCR e diferentes marcadores moleculares

Vila Real, 16 de Agosto de 2019

Francisco José Guedes Morinha

Diretor Técnico do Laboratório

MCRENHA LAB – Laboratorio de Biodiversidade e Genetica Molecular, Unipessoal, Lda Rua Dr. José Figueiredo, Lote L-2, LJ BS 500-542 Villa Real

APV (Poliomavírus)

www.morinhalab.com info@morinhalab.com 984 411 103



sample 26 - HUNGARY

MORINHA RESULTADO – ANÁLISE MOLECULAR						
AMOSTRA	Dados do Proprietário					
Identificação da ave: SAMPLE 26	WBO					
Espécie: Melopsittacus undulatus Mutação: -						
Ano de Nascimento: -						
Amostra biológica: Sangue Número da análise: 40220/2019						
Análise						
- APV (Poliomavírus)						
- PBFD (Circovírus dos psitacídeos)						
RESULTADO						
NEGATIVO (-)						

Vila Real, 16 de Agosto de 2019

sample 27 - HUNGARY







All the blood samples tested NEGATIVE for Circovirus.

 Regarding Polyomavirus some were POSITIVE and other negative, and In a group of samples coming from a single breeder ALL were POSITIVE for Polyomavirus and with a very strong signal.

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GROUP LIVE-ZWOLLE 2019 LIVE-ZWOLLE 2019 LIVE-ZWOLLE 2019	SAMPLE 1	COUNTRY								RESUL	
LIVE-ZWOLLE 2019 LIVE-ZWOLLE 2019		COLINTRY								ILLOOL	TADOS
LIVE-ZWOLLE 2019	1	COOMIN	SEX	VARIETY	YEAR	RING	STAM	BREEDER	OBS	APV	PBFD
		UK								Negativo	Positi
LIVE 7WOLLE 2010	2	UK								Negativo	Positi
LIVE-ZWOLLE 2019	3	UK								Negativo	Positi
LIVE-ZWOLLE 2019	4	UK								Negativo	Positi
LIVE-ZWOLLE 2019	5	UK								Negativo	Positi
LIVE-ZWOLLE 2019	6	UK								Negativo	Posit
LIVE-ZWOLLE 2019	7	UK								Negativo	Posit
LIVE-ZWOLLE 2019	8	UK								Negativo	Posit
LIVE-ZWOLLE 2019	9	UK								Negativo	Posit
LIVE-ZWOLLE 2019	10	UK								Negativo	Posit
LIVE-ZWOLLE 2019	11	UK								Negativo	Posit
LIVE-ZWOLLE 2019	12	UK								Negativo	Posit
LIVE-ZWOLLE 2019	13	UK								Negativo	Posit
LIVE-ZWOLLE 2019	14	UK								Negativo	
LIVE-ZWOLLE 2019	15	UK								Negativo	Posit
LIVE-ZWOLLE 2019	16	UK								Negativo	
LIVE-ZWOLLE 2019	17	UK	XXX	XXX							
LIVE-ZWOLLE 2019	18	UK	XXX	XXX							
LIVE-ZWOLLE 2019	19	UK	XXX	XXX							
LIVE-ZWOLLE 2019	20	UK	XXX	XXX							
LIVE-ZWOLLE 2019	21	UK	XXX	XXX							
LIVE-ZWOLLE 2019	22	UK	XXX	XXX							
LIVE-ZWOLLE 2019	23	UK	XXX	XXX							
LIVE-ZWOLLE 2019	24	UK	XXX	XXX							
BLOOD-JUNE 2019	25	HUNGARY			2019					Positivo	Nega
BLOOD-JUNE 2019	26	HUNGARY			2019					Negativo	
BLOOD-JUNE 2019	27	HUNGARY			2019					Negativo	
BLOOD-JUNE 2019	28	AUSTRIA	HEN	DOM PIED	2019					Positivo	Nega
BLOOD-JUNE 2019	29	AUSTRIA	HEN	CIN SKY BLUE	2019					Negativo	
BLOOD-JUNE 2019	30	GERMANY			2019					Positivo	Nega
BLOOD-JUNE 2019	31	GERMANY			2019					Positivo	Nega
BLOOD-JUNE 2019	32	GERMANY			2019					Positivo	Nega
BLOOD-JUNE 2019	33	GERMANY			2019					Positivo	Nega
BLOOD-JUNE 2019	34	GERMANY			2019					Positivo	Nega
BLOOD-JUNE 2019	35	GERMANY	соск	VIOLET SP	2019					Negativo	
BLOOD-JUNE 2019	36	GERMANY	HEN	N OP SKY BLI	2019					Negativo	
BLOOD-JUNE 2019	37	GERMANY	HEN	CIN SKY BLUE	2019				FILHA DA AMOSTRA 35	_	_
BLOOD-JUNE 2019	38	GERMANY	COCK	SP SKY BLUE	2019				TILIA DA AMOSTRA 33	Negativo	_
BLOOD-JUNE 2019	39	GERMANY	HEN	CIN OP GREY	2018				PHOTO 1 1, 1 2	Negativo	
BLOOD-JUNE 2019	40	GERMANY	HEN	CIN OF GREY	2019				PHOTO 1_1, 1_2 PHOTO 2_1, 2_2	Negativo	_
BLOOD-JUNE 2019	41	GERMANY	HEN	SKY BLUE	2019				PHOTO 2_1, 2_2	Negativo	_





• At this stage we must stress that the PCR tests can give us information about the viruses that are circulating in the blood stream, but viruses can be also stocked in some vital organs and in the feather follicules.

 So the resuts we have now are just relevant to give us a star information and suggest the way forward.





#### THE WAY FORWARD:

- The university has now asked for photos of these sample birds, and the possibility of getting some of these birds or/and to be able to analyze and follow the evolution of the symptoms in these birds and their eventual breeding progeny.
- In parallel, necropsy and histopathology studies were and are being conducted in order to verify the compatibility between them and the PCR tests results.

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#### **REMARKS:**

According to the University team, we should bear in mind that the viruses can be found not only in the blood stream of the birds but also the feather follicles, and as such, we should wait for the histopathology tests in order to be able to extract any conclusion.

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#### **REMARKS:**

The next step will be to start with the identification of the dominant virus strain or strains that are most likely to induce the most serious disease condition.

Further reports will be available at the next WBO meeting in Stoke-on-trent in June 2020

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#### Thank you for your attention!

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