

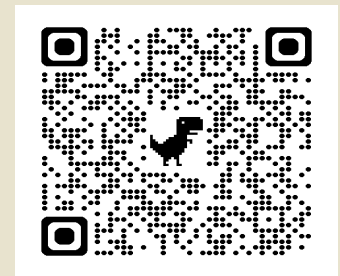


THE EPIDEMIOLOGICAL INVESTIGATION AND SURVEILLANCE
OF FELINE INFECTIOUS PERITONITIS OUTBREAK IN CYPRUS
DUE TO A NOVEL FCOV VARIANT.

RE-DISCOVERING FELINE INFECTIOUS PERITONITIS

***Demetris Epaminondas** (DVM, MSc, MPA, PhDc)

***Demetris Epaminondas**, Maria Lyraki, Danielle Gunn-Moore,
Charalambos Attipa, Christine Burkard, Stella Mazeri, Maria-Eleni Filippitzi.



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SUMMARY



FCoV versus FIPV

Can FIP be transmitted directly?

A few words about Cyprus

How it all started

What do we know so far

Diagnostic challenges

Therapeutic challenges

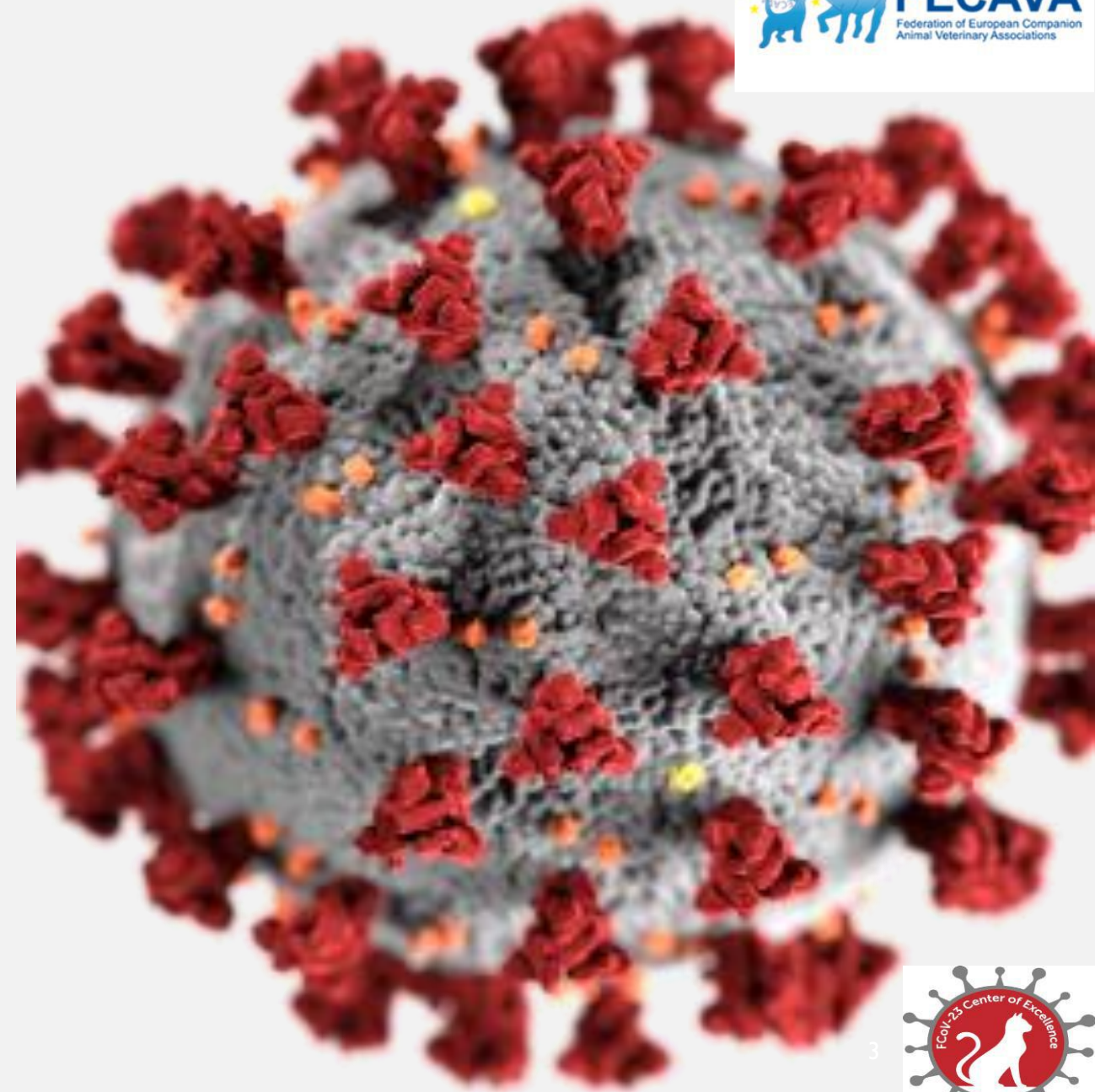
Is it spreading?

More research is coming soon

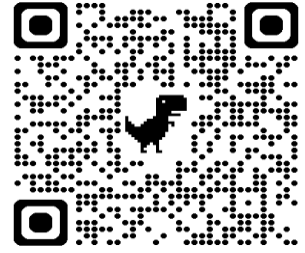


I. FELINE CORONAVIRUS - FCOV

- International Committee of Taxonomy of Viruses (ICTV)
- Single stranded RNA-Virus, Envelope virus
- Order *Nidovirales*.
- Family *Coronaviridae*.
- Subfamily *Orthocoronavirinae*.
- Genus *Alphacoronavirus*.



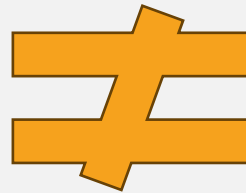
FCOV GENOTYPES (ANTIGENICITY)



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- **FCOV-1**

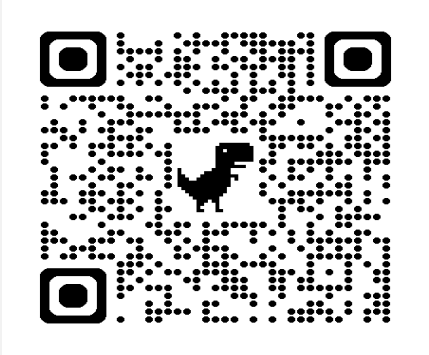
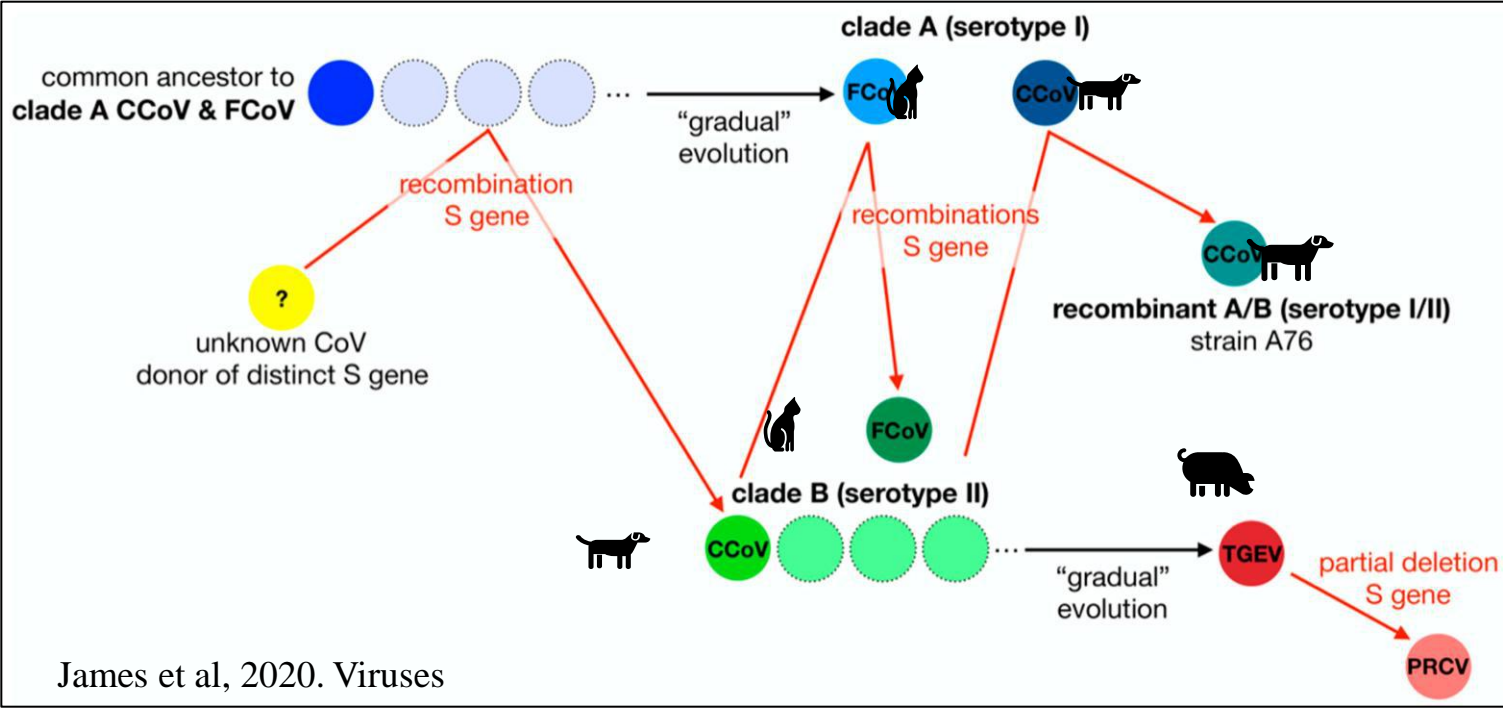
- Difficult to culture in cell cultures
- Most common in terms of natural infection (>80-95%)
- Different receptors
- More “feline” genom wise



- **FCOV-2**

- Easier to culture in cell cultures
- Not so common in natural infections (2,5-29,5% of infections)
- Recombinant!!!

THE TALE OF THE TWO VIRUSES

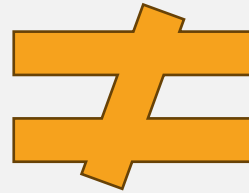


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FCOV BIOTYPES (PATHOGENICITY)

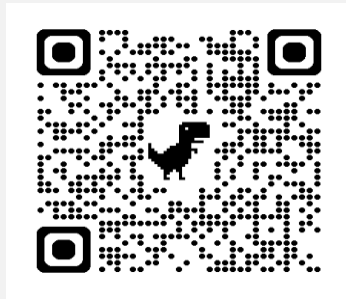
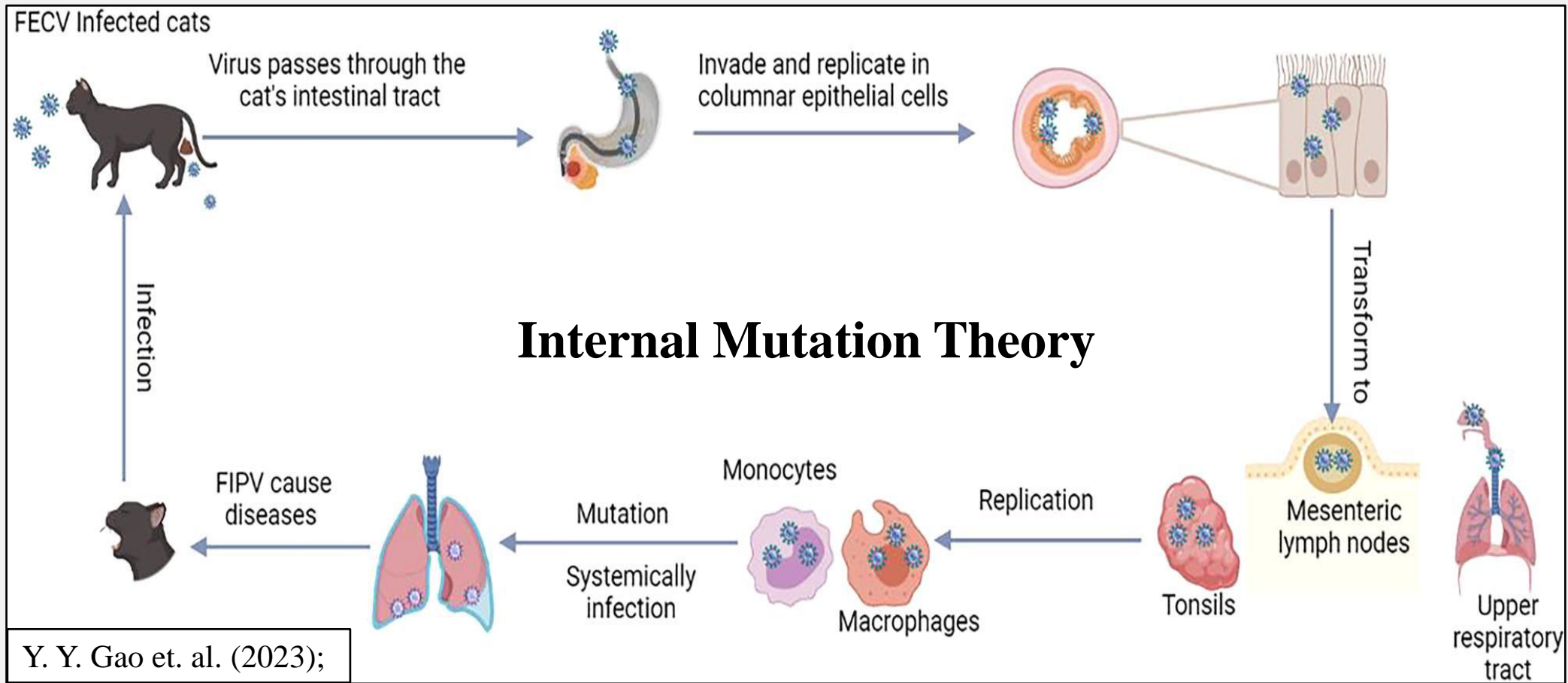
Every genotype FCoV-1 and FCoV-2 has one biotype:

- **FECV**
- Low virulence
- Subclinical disease or mild gastroenteritis
- Non-mutated
- Lives in the enterocytes (GI tract)



- **FIPV**
- Mutated (in-host mutation)
- Virulent agent that causes FIP
- Lives and multiplies within the immune cells in tissue and blood

Ia. Feline Infectious Peritonitis - Pathogenesis



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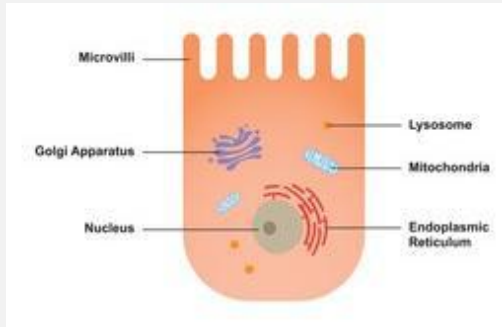
Y. Y. Gao et. al. (2023);

Ib. Feline Infectious Peritonitis – A Change in Cell Tropism

FCoV



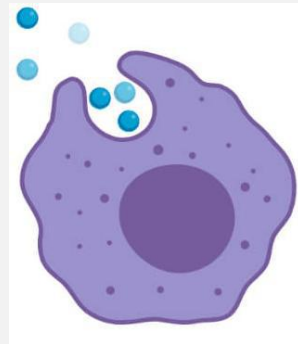
Enterocytes



FIPV



Macrophages



Monocytes



Cell-mediated response
– T lymphocytes

Immunity


Dry FIP

Humoral response –
B lymphocytes – wet
FIP

CIRCULATING VIRULENT – AVIRULENT THEORY




- Distinct FCoV strains with increased tendency to mutate (FIPV)
- Increased FCoV-related morbidity
- Key mutations that drive FIP are still unique for each cat
- Can explain small scale outbreaks (within shelters)

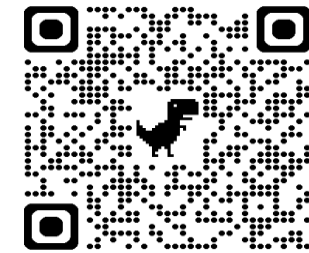
Case Series



Outbreak of feline infectious peritonitis (FIP) in shelter-housed cats: molecular analysis of the feline coronavirus S1/S2 cleavage site consistent with a 'circulating virulent-avirulent theory' of FIP pathogenesis

Journal of Feline Medicine and Surgery Open Reports
1-8
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journals.sagepub.com/home/jfmsopenreports
This paper was handled and processed by the American Editorial Office (AAFP) for publication in JFMS Open Reports
SAGE

Eleni A Healey¹, Nicole M Andre² , Andrew D Miller³, Gary R Whittaker^{2,4}  and Elizabeth A Berliner⁵ 



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II. CAN FIP BE TRANSMITTED DIRECTLY?

What Do We know so far?



HORIZONTAL TRANSMISSION THEORY

Wang et al. *Veterinary Research* 2013, **44**:57
<http://www.veterinaryresearch.org/content/44/1/57>

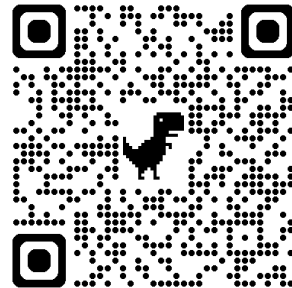
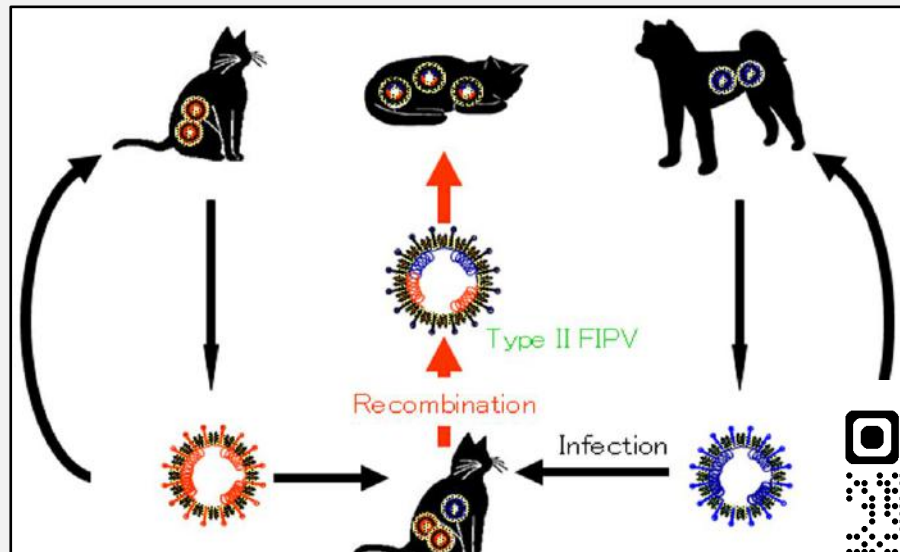


RESEARCH

Open Access

An outbreak of feline infectious peritonitis in a Taiwanese shelter: epidemiologic and molecular evidence for horizontal transmission of a novel type II feline coronavirus

Ying-Ting Wang¹, Bi-Ling Su², Li-En Hsieh¹ and Ling-Ling Chueh^{1*}



Rare – restricted in small shelter outbreaks so far (others not documented)

All affected cats share the exact same mutations of the FCoV (type II FCoV)

Direct FIP transmission

Can explain large scale outbreaks



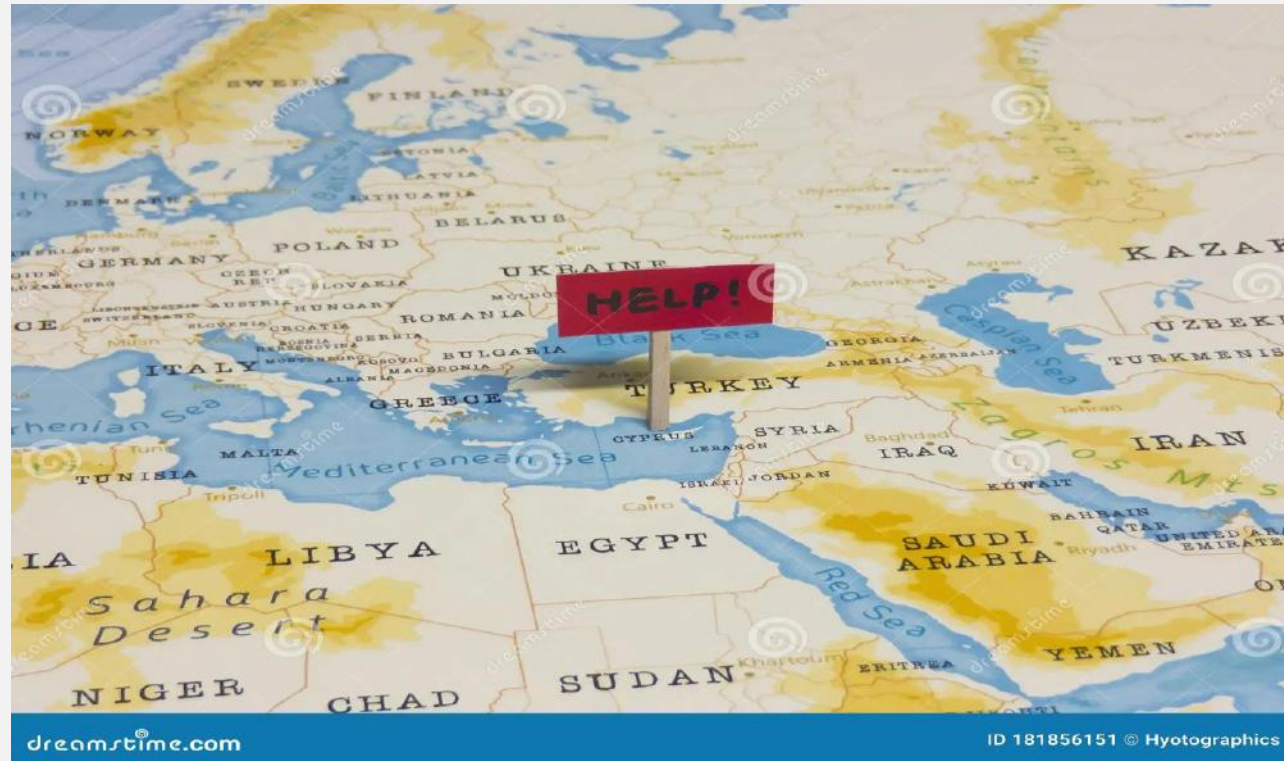
A FEW WORDS ABOUT CYPRUS



CYPRUS



- **Cyprus**, is an island in the Eastern Mediterranean Sea
- Border of Europe to Asia and Africa





CYPRUS



- The 1st evidence of cat domestication is found in Cyprus

ANIMALS

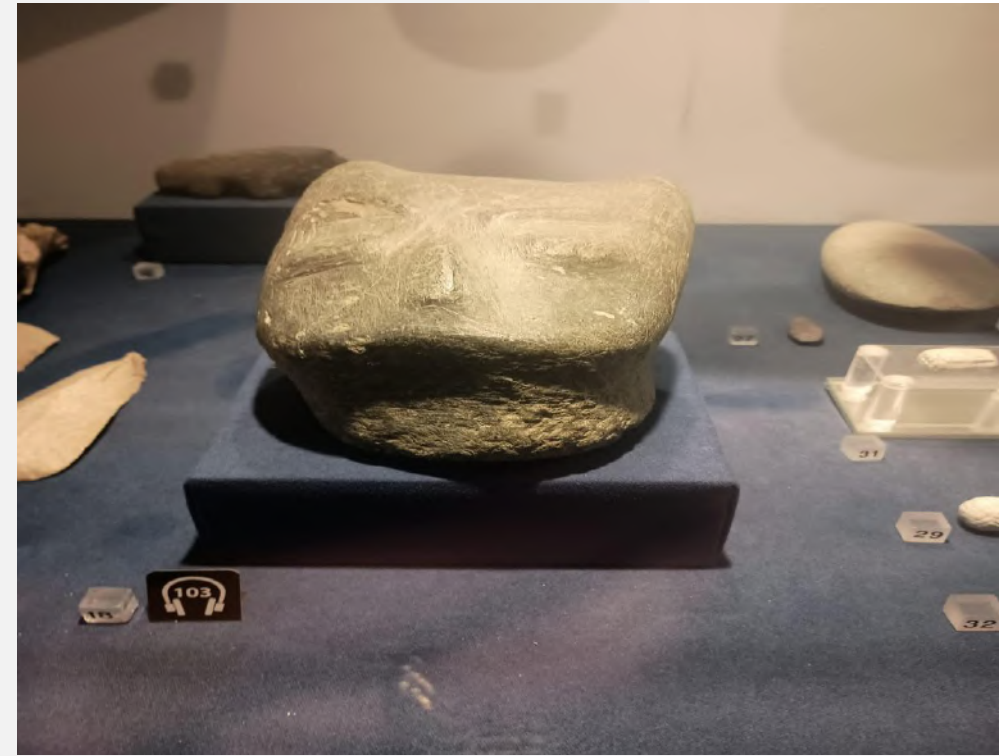
NEWS

Oldest Known Pet Cat? 9,500-Year-Old Burial Found on Cyprus

French archaeologists have found evidence that our close relationship with cats may have begun much earlier than originally thought.

By John Pickrell

April 08, 2004 • 5 min read

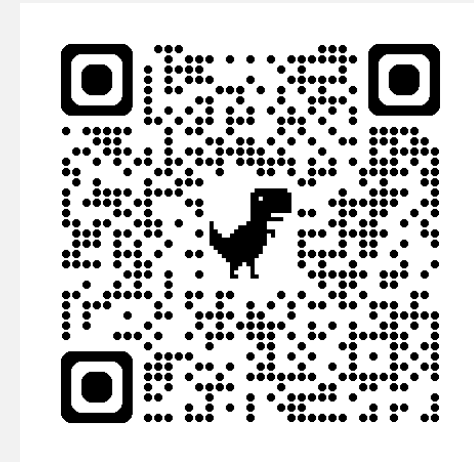


Oldest cat...8000BC





CYPRUS



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- Large number of stray cats
- “Sentinel” for Europe regarding environmental changes and spreading of infectious agents

Research | [Open access](#) | Published: 13 March 2017

Prevalence study and risk factor analysis of selected bacterial, protozoal and viral, including vector-borne, pathogens in cats from Cyprus

[Charalampos Attipa](#) , [Kostas Papasouliotis](#), [Laia Solano-Gallego](#), [Gad Baneth](#), [Yaarit Nachum-Biala](#), [Elpida Sarvani](#), [Toby G. Knowles](#), [Sena Mengi](#), [David Morris](#), [Chris Helps](#) & [S  verine Tasker](#)

[Parasites & Vectors](#) **10**, Article number: 130 (2017) | [Cite this article](#)

4250 Accesses | 67 Citations | 1 Altmetric | [Metrics](#)





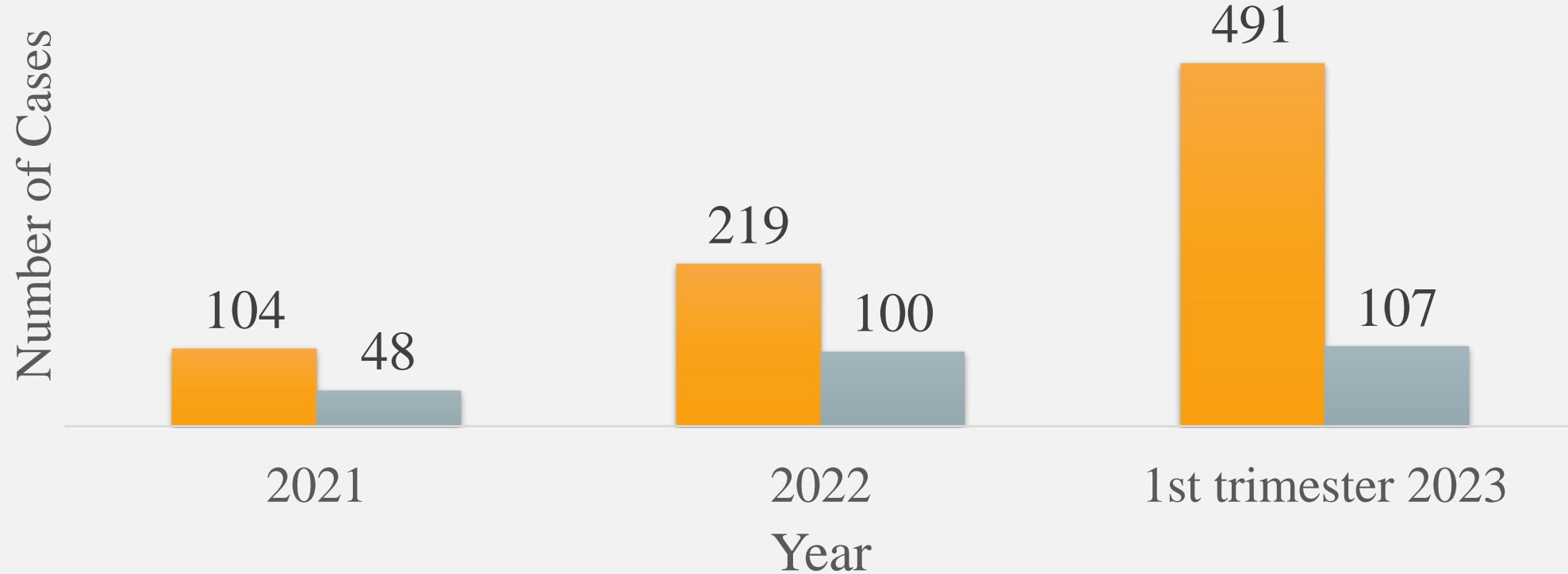
HOW IT ALL STARTED



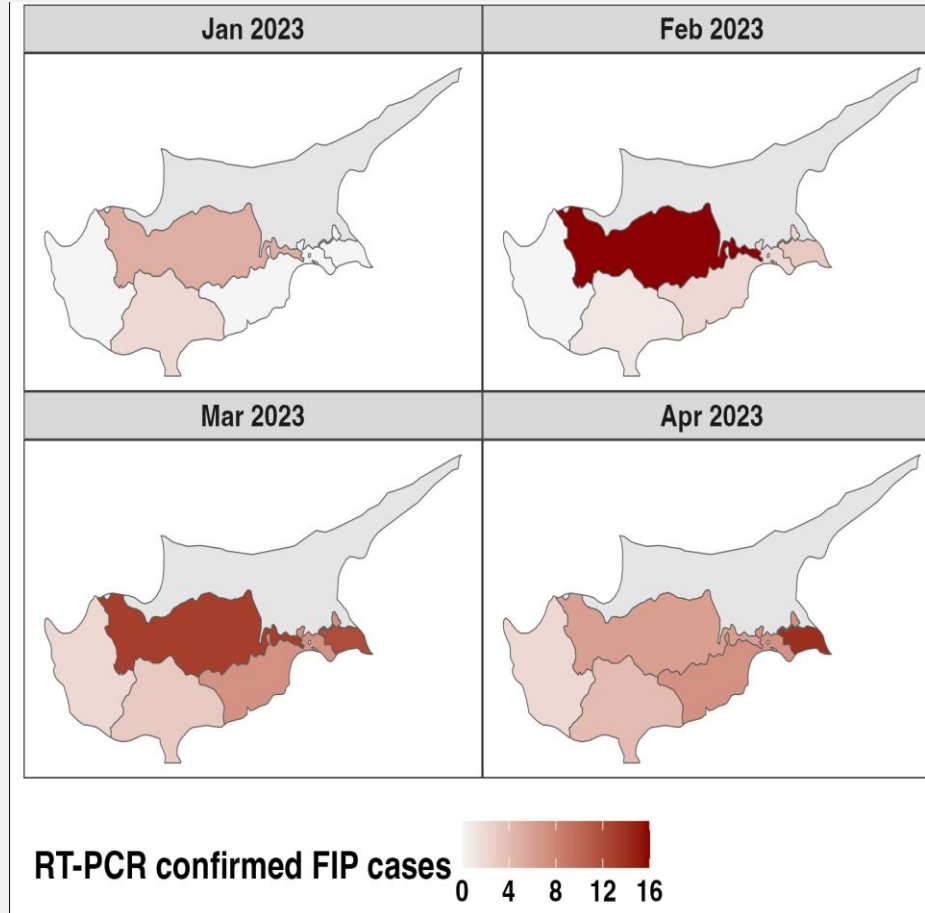
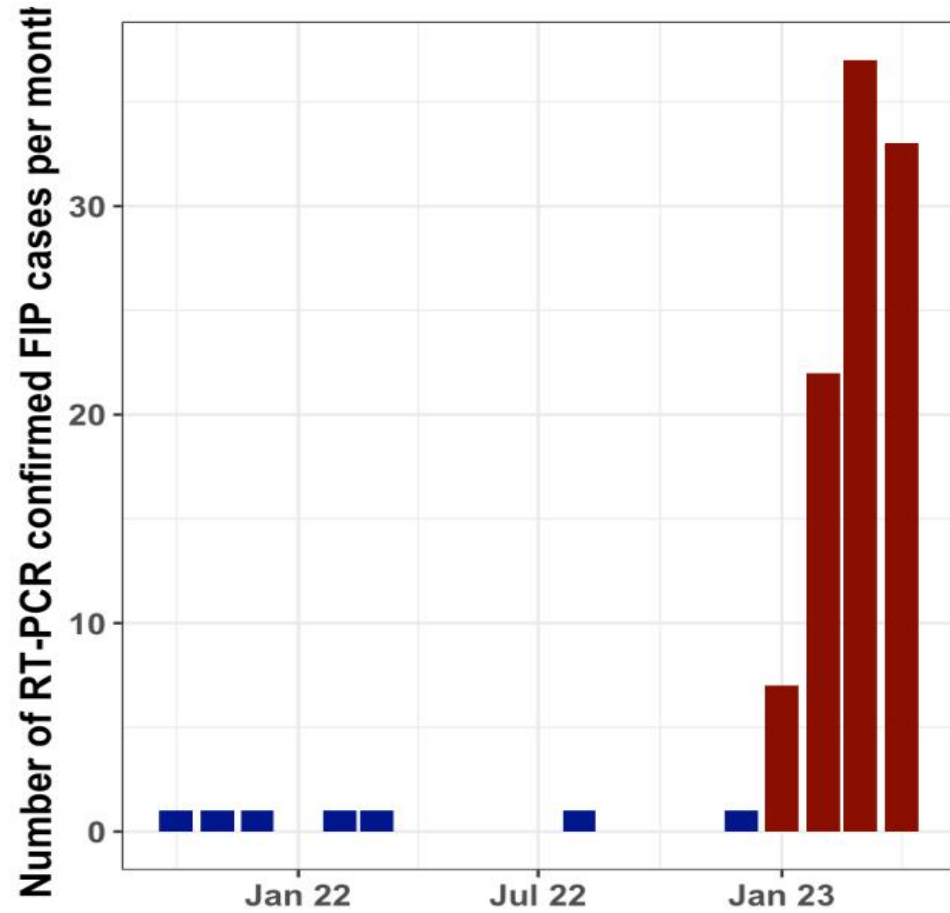
QUESTIONNAIRE

Number of cases per year (2021-2023)

■ Number of suspected cases based on FIP Clinical Criteria ■ Number of confirmed cases



THE EARLY DAYS



Courtesy of: Dr Charalampos Attipa and Dr Stella Mazeri, University of Edinburgh & Roslin Institute



SCIENTIFIC CONSULTATION TEAM

Awareness

Multidisciplinary team “task force” (April 2023)



WEBINAR

Λοιμώδης Περιτονιτίδα της γάτας. Πρωτόκολλα διάγνωσης και θεραπείας για την αντιμετώπιση της επιδημίας στην Κύπρο.

 Maria Lyraki DVM,
MSc, Dip ECVIM-CA
MRCVS

 16 Μαΐου 2023
20:00

ΠΑΓΚΥΠΡΙΟΣ ΚΤΗΝΙΑΤΡΙΚΟΣ ΣΥΛΛΟΓΟΣ 



THE FIRST PUBLICATION

- Vet Record – June 2023
- Suggested travel requirements prior to travelling outside of Cyprus
- Suggestion to serologically test before travelling
- Suggestion to isolate and re-test serology 14 days after import



Letters & Notices

WILDLIFE

The welfare of wild animals

ALTHOUGH it is encouraging that the profession is beginning to debate the welfare of wildlife, the nature of recent correspondence (VR, 6/13 May 2023, vol 192, pp 377, 378) suggests if we are to influence society and legislators, we will first need to narrow the gulf in values that exists in the profession.

In particular, I question whether exterminating one species arbitrarily deemed 'vermin' to protect another on the basis of nothing more than tradition and anecdote is sustainable either as an intervention against wildlife or as a position for the profession to adopt. That the killing methods used are mostly inhumane is an indictment against us all.

The main legislation that seeks to protect wildlife in Great Britain, the Wildlife and Countryside Act 1981, is long overdue for revision. Unlike the situation with birds where every species is protected unless a licence is issued, the act provides little protection for mammals unless listed in the act or elsewhere (eg, the badger protection acts).

This means that there is little protection for rabbits, stoats, weasels and foxes – there are no closed seasons, no limits on numbers.

FELINE DISEASE

Concerning feline infectious peritonitis outbreak in Cyprus

WE are alerting colleagues to an outbreak of feline infectious peritonitis (FIP) in Cyprus that started in the capital city Nicosia in January 2023. An increasing number of cases has gradually been observed in the districts of Larnaca, Limassol and Famagousta. Within 12 weeks the number of PCR-confirmed FIP cases increased more than 20-fold compared to the previous year.

Cavitary fluids, abdominal lymph node fine-needle aspiration biopsies or tissue biopsies from cats with clinical signs compatible with FIP were submitted to Vet Dia Gnosis in Limassol. Following cytological or histopathological examination the samples underwent total nucleic acid extraction and RT-PCR for the detection of feline coronaviruses (FCoV) at Laboklin Bad Kissingen, Germany.¹

There were three and four PCR-confirmed FIP cases in 2021 and 2022 respectively, while from January to April 2023 98 PCR-confirmed FIP cases were reported.

Outbreaks of FIP have been documented in the UK, the USA and Taiwan but were restricted to catteries



“
This outbreak became widespread in different districts of Cyprus very quickly, suggesting a highly virulent strain

Cyprus. Any seropositive cat should not travel outside Cyprus until we have a better understanding of the current outbreak. Ideally, if a cat is allowed to travel it should be kept indoors for 10 to 14 days and retested, as acutely infected cats will likely seroconvert at a later stage.⁵

The implementation of travel requirements for cats travelling from Cyprus must be a priority for the UK. This is due to the high numbers of animals travelling between the two countries reflecting the historic links that exist; parts of Cyprus are British overseas territories and a notable number of British immigrants are

THE CAT-INFLUENCERS



Guardian

Subscription with €10 per month

Opinion Sport Culture

Americas Asia Australia Middle East Africa Inequality G



Membership Journals Latest

Back to news list

BVA statement on Cyprus

14 Jul 2023

BVA issues advice for UK cat owners on peritonitis in Cyprus.



A widespread outbreak of feline infectious peritonitis (FIP) has been reported in Cyprus since January.

Responding to the news, Dr Justine Shorten, BVMS

"The reported cases of feline infectious peritonitis (FIP) in Cyprus are a reminder to cat owners in the UK to be vigilant. Our current advice for cat owners is to continue to keep their cats up to date with their vaccinations and discuss any preventative health measures with their vet."

"Cats being imported from Cyprus to the UK should be tested for FIP. As a precautionary measure, anyone who has had contact with cats from Cyprus should also be tested and make sure to clean the soles of their shoes before bringing them into the UK."

UK NEWS WEBSITE OF THE YEAR

The Telegraph

News Sport Health Money Business Opinion General election Ukraine Royals Life & Style

UK news Politics World Health news Defence Science Education Environment Investigations

Cyprus becomes 'island of dead cats' after outbreak of feline coronavirus kills 300,000

Experts warn that 'many cats' could die if the virus circulating in Cyprus makes its way to Britain

Sarah Newey, GLOBAL HEALTH SECURITY CORRESPONDENT

11 July 2023 - 4:05pm

This article is more than 8 months old

Experts warn about feline coronavirus after 'thousands' of cats die in Cyprus

'Alarming' reports of sudden rise in feline coronavirus thought to point to more virulent strain



A vet tends to a cat suffering from FIP at a clinic in Cyprus. Credit: Christina Assi/AFP/Getty Images

Thousands of cats have died in Cyprus, according to a more virulent strain of a feline coronavirus. Separately, dozens of cats have died after returning from Poland.

Related Topics

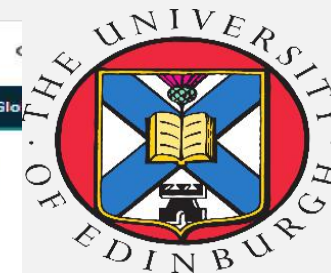
Global Health Security, Coronavirus, Cyprus, Europe, Cats, Viruses



A new strain of feline coronavirus is wreaking havoc on the cat population of Cyprus | CREDIT: CHRISTINA ASSI/AFP VIA GETTY IMAGES

A feline coronavirus risks turning Cyprus into an "island of dead cats", experts have warned after as many as 300,000 were killed in an outbreak.

Both stray and domestic cats have been killed by feline infectious peritonitis (FIP), a coronavirus strain, since January. Experts have warned that "many cats"



Donate

International Cat Day



WHAT DO WE KNOW
ABOUT THE OUTBREAK
SO FAR?

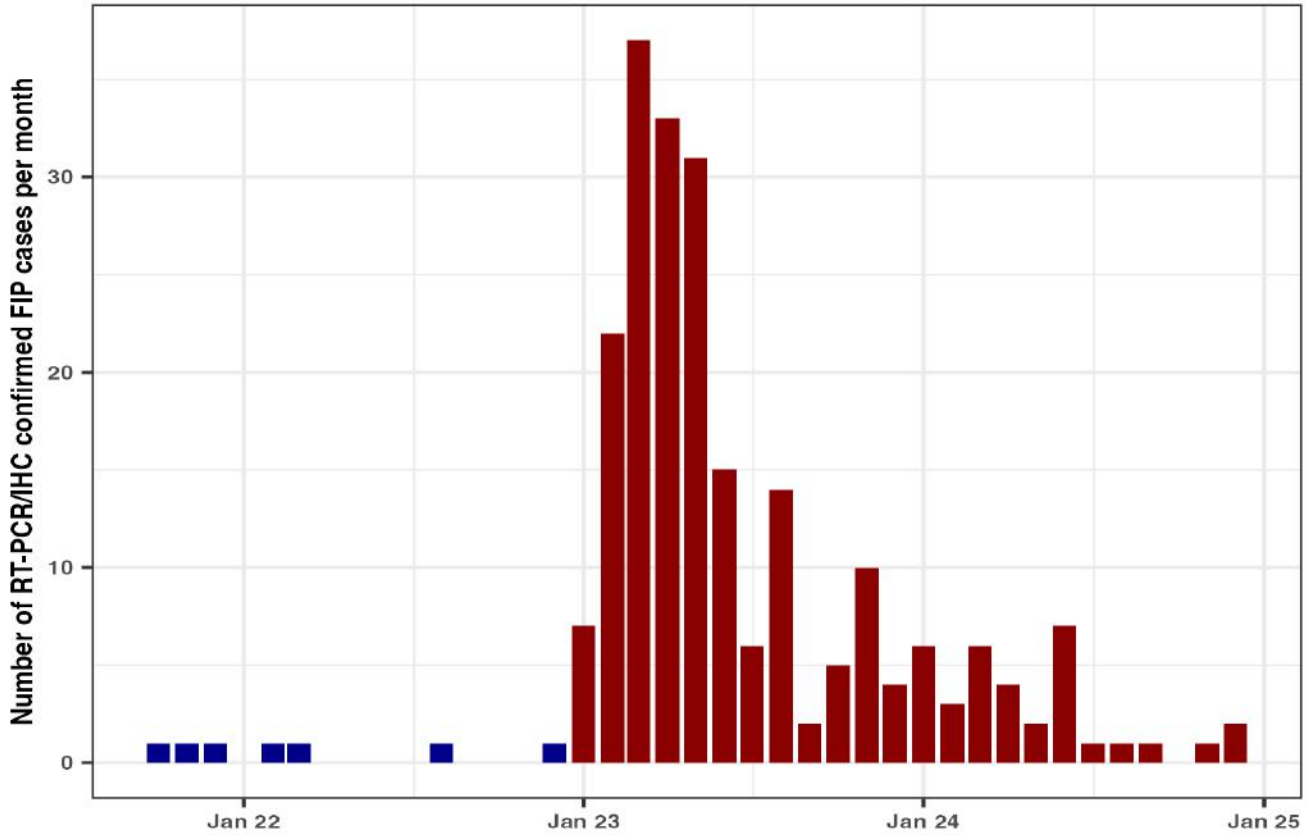
A. FCOV-23
SURVEILLANCE
SYSTEM

TWO TYPES OF DATASETS

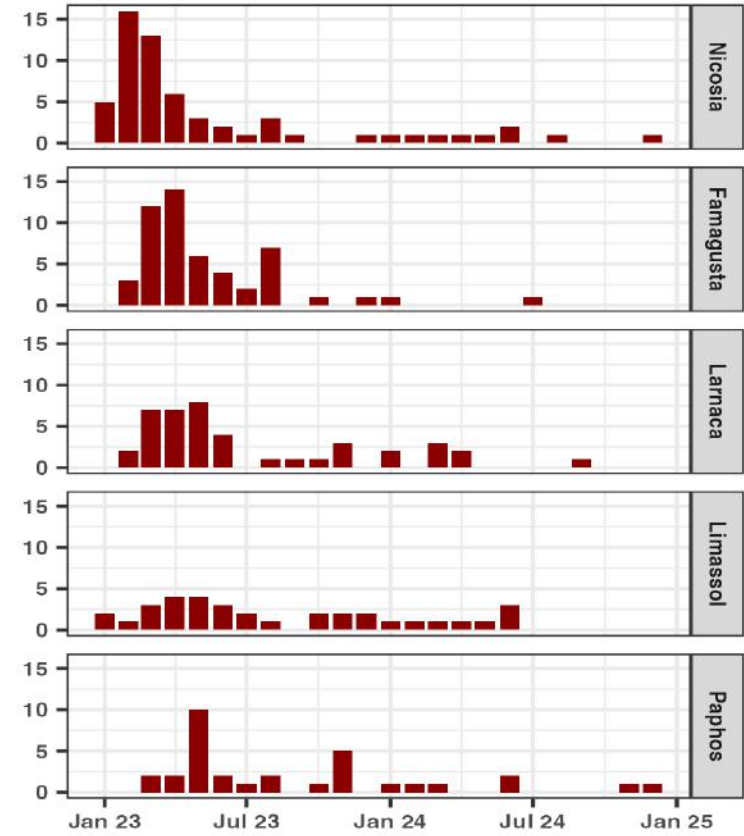
I. PCR POSITIVE CASES
SUBMITTED BY
VETERINARY CLINICS

II. QUESTIONNAIRES
REGULARLY FILLED BY
THE VETERINARY
COMMUNITY

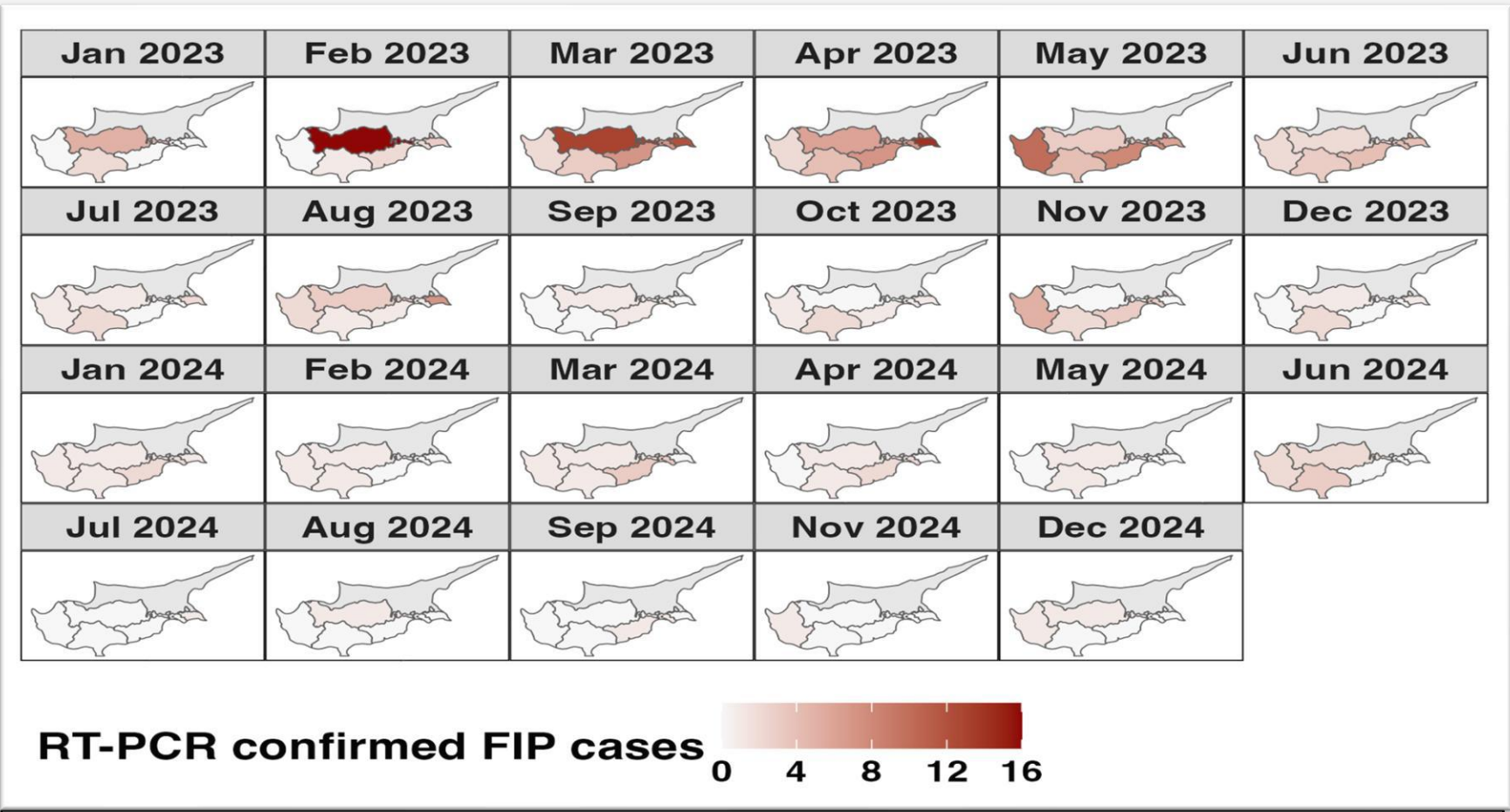
I. SURVEILLANCE SYSTEM (PCR +)



Courtesy of: Dr Charalampos Attipa and Dr Stella Mazeri, University of Edinburgh & Roslin Institute



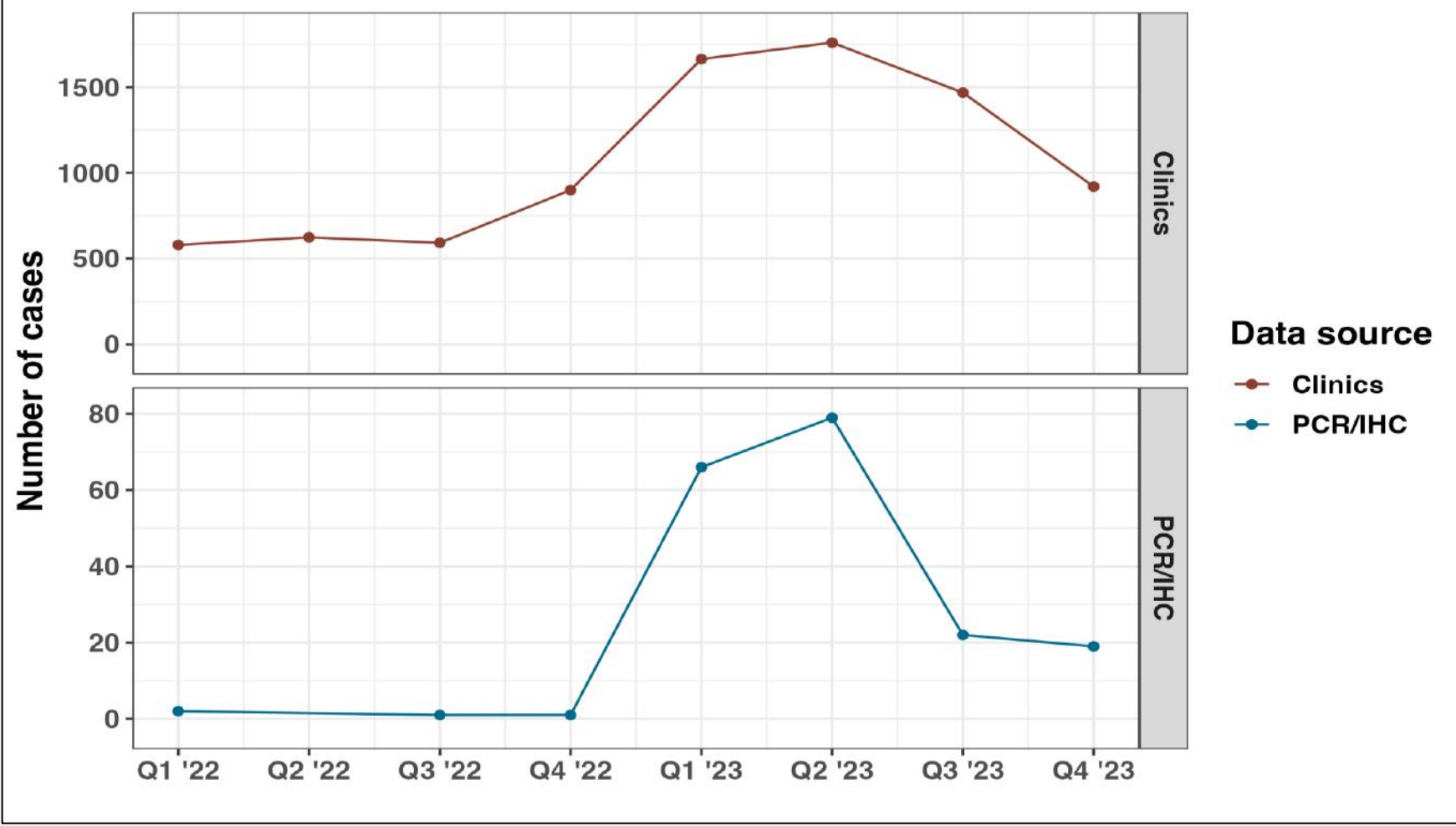
Evolution of FCoV-23 cases (PCR +)



Courtesy of: Dr Charalampos Attipa and Dr Stella Mazeri, University of Edinburgh & the Roslin Institute.



II. PCR/IHC vs QUESTIONNAIRE



B. GENETIC SEQUENCING

GENETIC SEQUENCING

- High sequence identity (same variant) from all samples across the island
- Unique strain - NOT previously reported before
- Named FCoV-23
- Direct transmission?



bioRxiv
THE PREPRINT SERVER FOR BIOLOGY

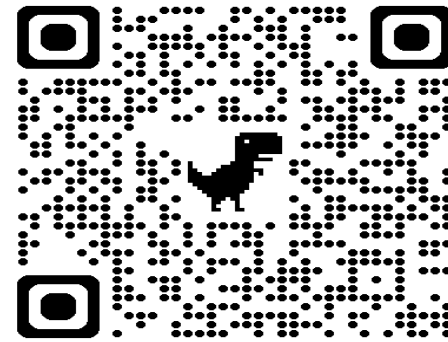
New Results

Follow this preprint

Emergence and spread of feline infectious peritonitis due to a highly pathogenic canine/feline recombinant coronavirus

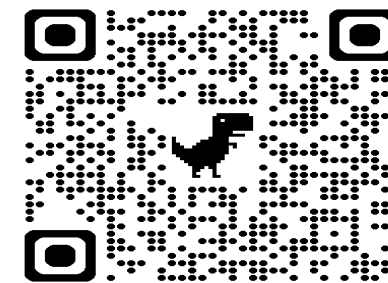
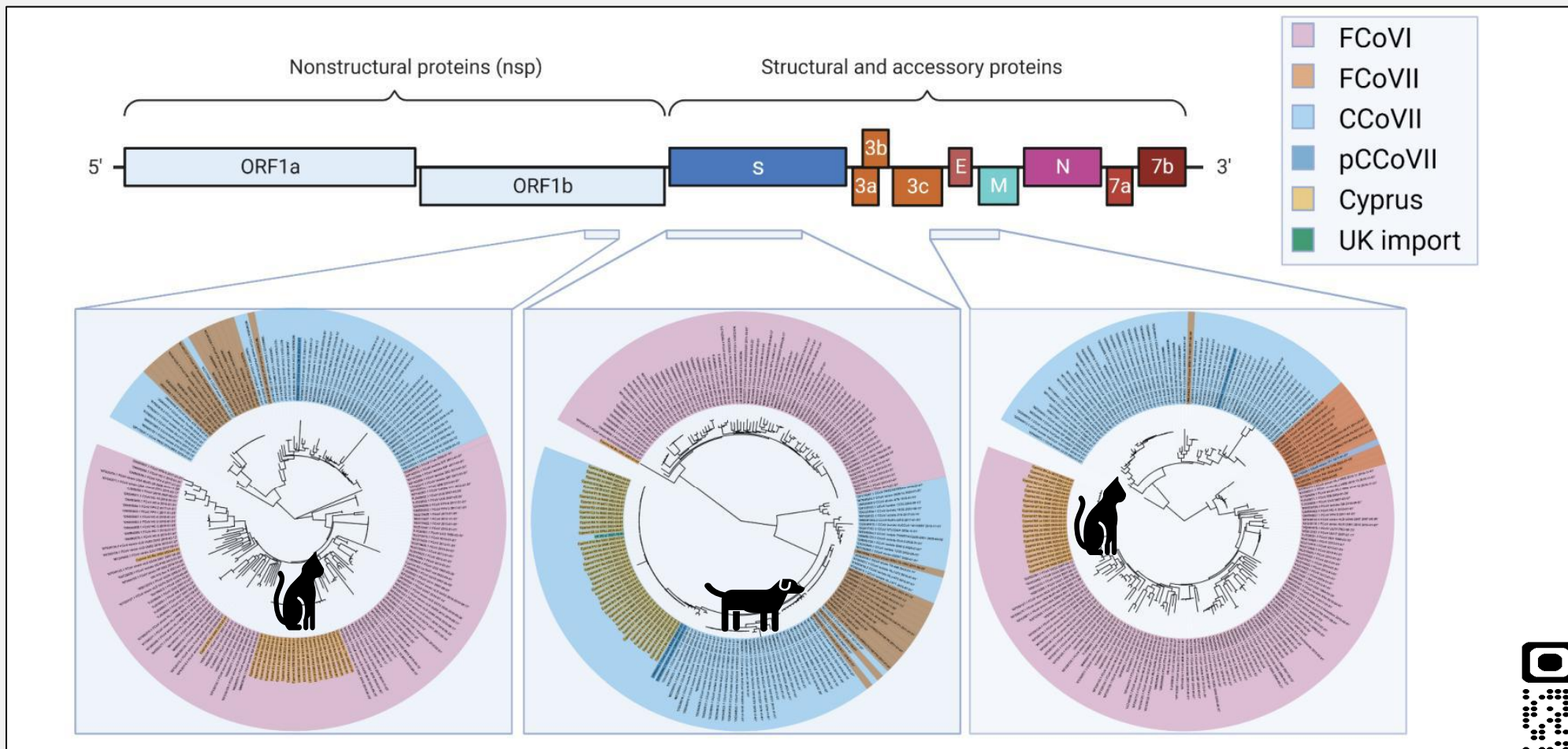
Charalampos Attipa, Amanda S Warr, Demetris Epaminondas, Marie O'Shea, Sarah Fletcher, Alexandra Malbon, Maria Lyraki, Rachael Hammond, Alexandros Hardas, Antria Zanti, Stavroula Loukaidou, Michaela Gentil, Danielle Gunne-Moore, Stella Mazeri, Christine Tait-Burkard

doi: <https://doi.org/10.1101/2023.11.08.566182>



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The FCoV-23 appears to have been recombined at the spike gene with **Pantropic canine coronavirus (P-CCoV)** at 97% gene identity

C. CLINICAL EVOLUTION –
EPIDEMIOLOGICAL
CHARACTERISTICS

AGE AND BREED

FIP disproportionately affects:

Cats 3 months - 2 years old

Pedigree Cats

Male Cats



Updated: FIP guidelines

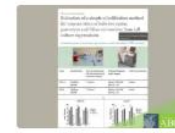
Published: 06/06/2022

So much has happened in recent months regarding the diagnosis and treatment of feline infectious peritonitis [guidelines!](#) Read them here with the latest on treatment and diagnostics. We've also created a [special tool to](#)

This might also interest you



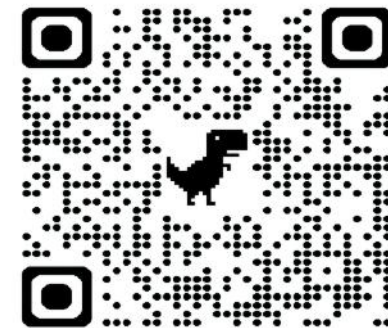
Katharina Zwicklbauer wins the 2024 Young Scientist Award



Ultrafiltration of FCoV



Postmortem findings in kitten cured of FIP

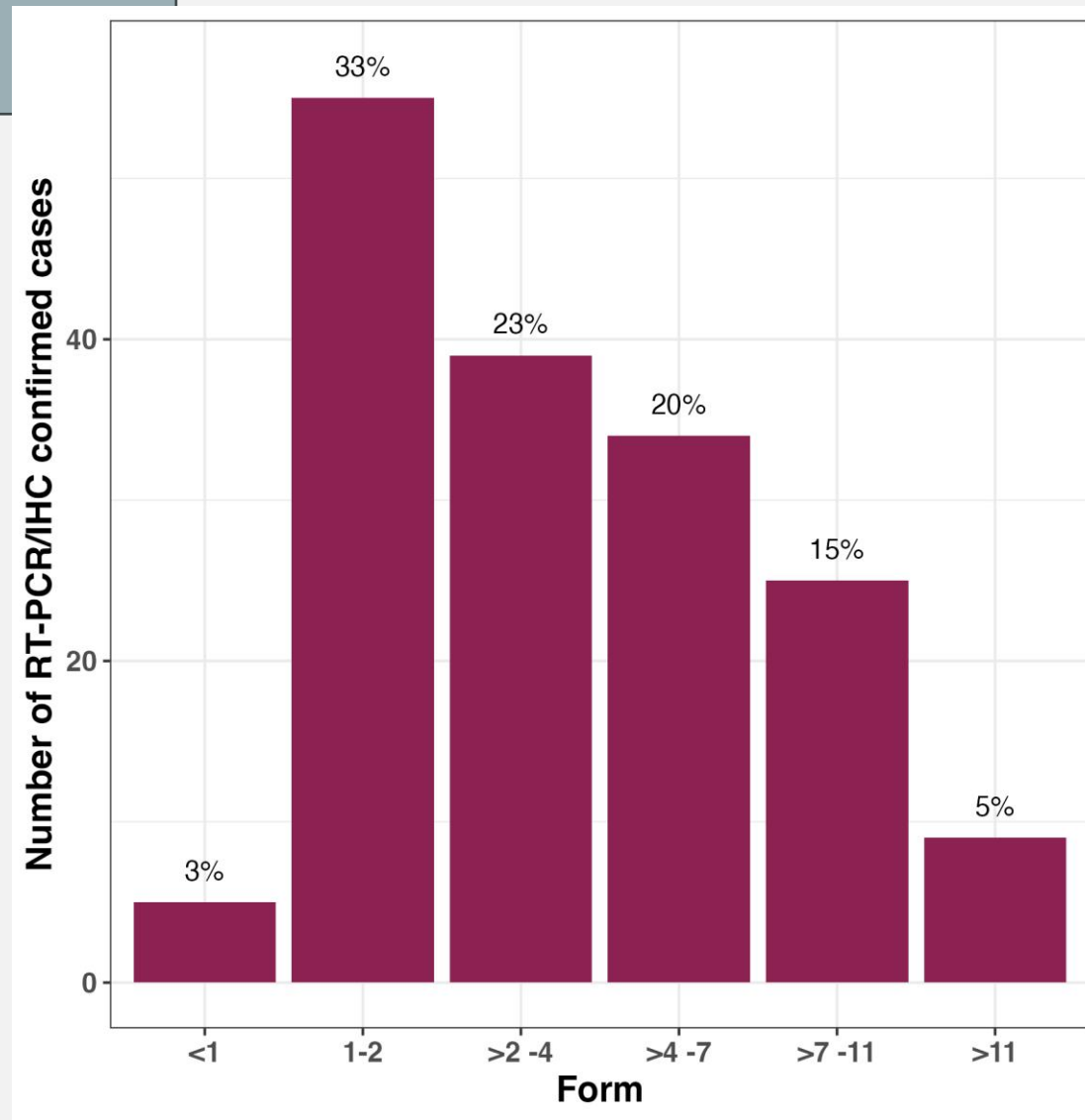


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AGE STATS (PCR DATASET)

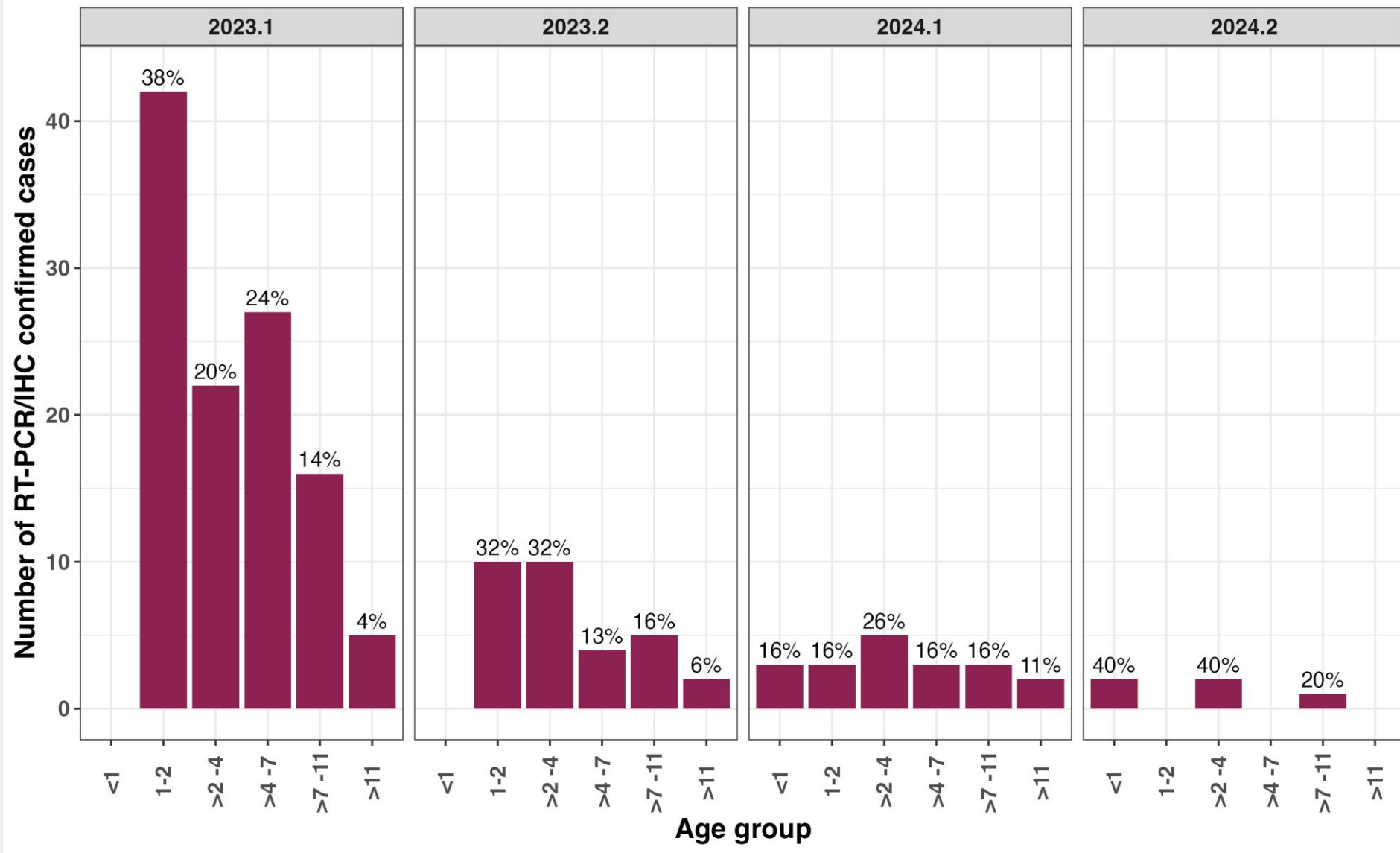
AGE STATS

- Cats of all ages were affected
- Age (years):
- Mean: 4.6 years
- Range: 1-19
- 43% of the cases in young adult cats >2 y



Courtesy of Dr. Stella Mazeri

AGE STATS (PCR DATASET)





BREED (QUESTIONNAIRE DATASET)

DSH (95%) > DLH (4%) > purebred
cats (1%)

GENDER STATS

FCOV23 - n=227

Male patients: 67%
Female patient: 33%

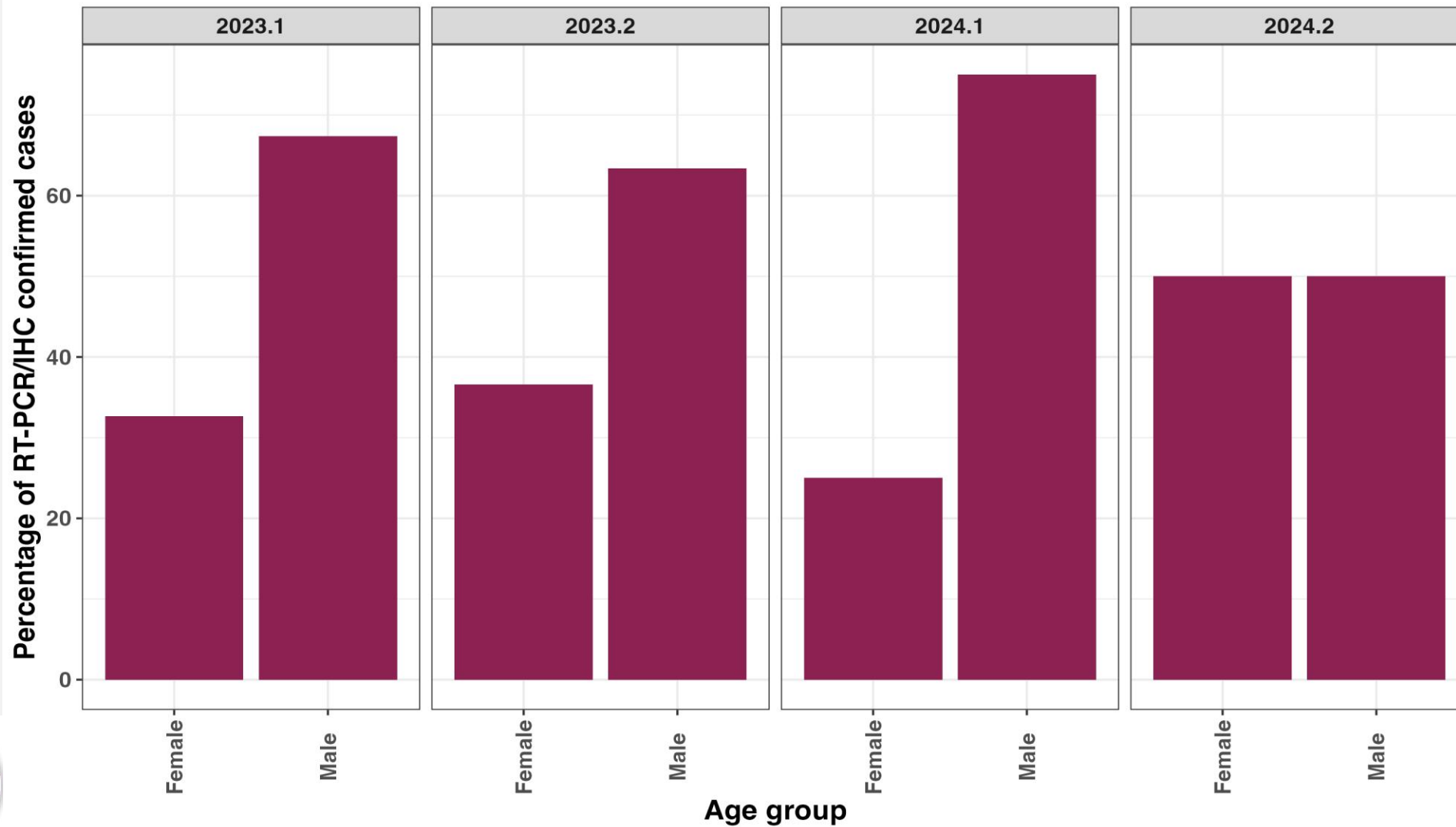
Taylor et al, 2023
n=307

Male: 63,2%
Female: 36,8%

Riemer et al, 2012 n=210

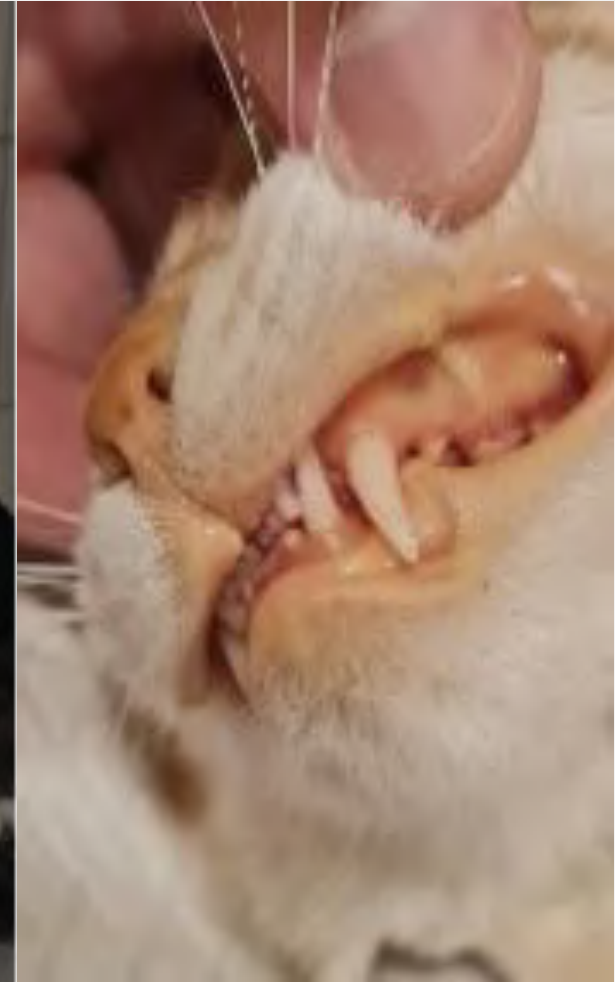
Male: 65,4%
Female: 34,6%

GENDER



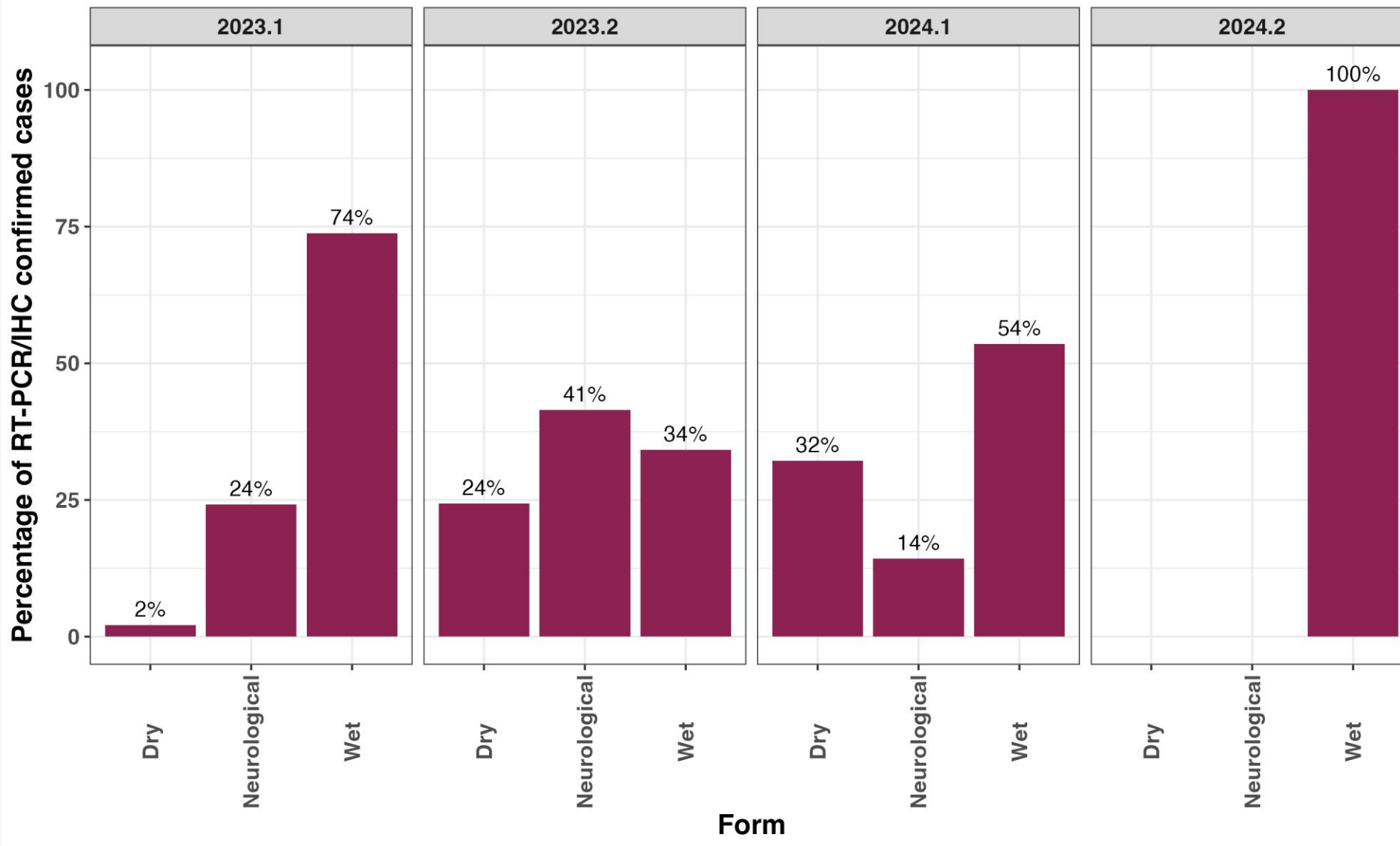
CLINICAL FORM

- The most common clinical form of FIP was effusive (**64%** ≠ 72-86%)
- **Neurological FIP** cases were much more frequent than traditional FIP (**25%** ≠ 18-30%)
- **Pure Dry FIP** (- neuro/ocular signs) cases were much higher (**10%** ≠ 4-5%)
- Immunohistology for FCoV antigen demonstrated a **heavy viral load** within intralésional macrophages



Courtesy of Eva Georgiadi

FIP FORM-PCR DATASET



Courtesy of Dr. Stella Mazeri

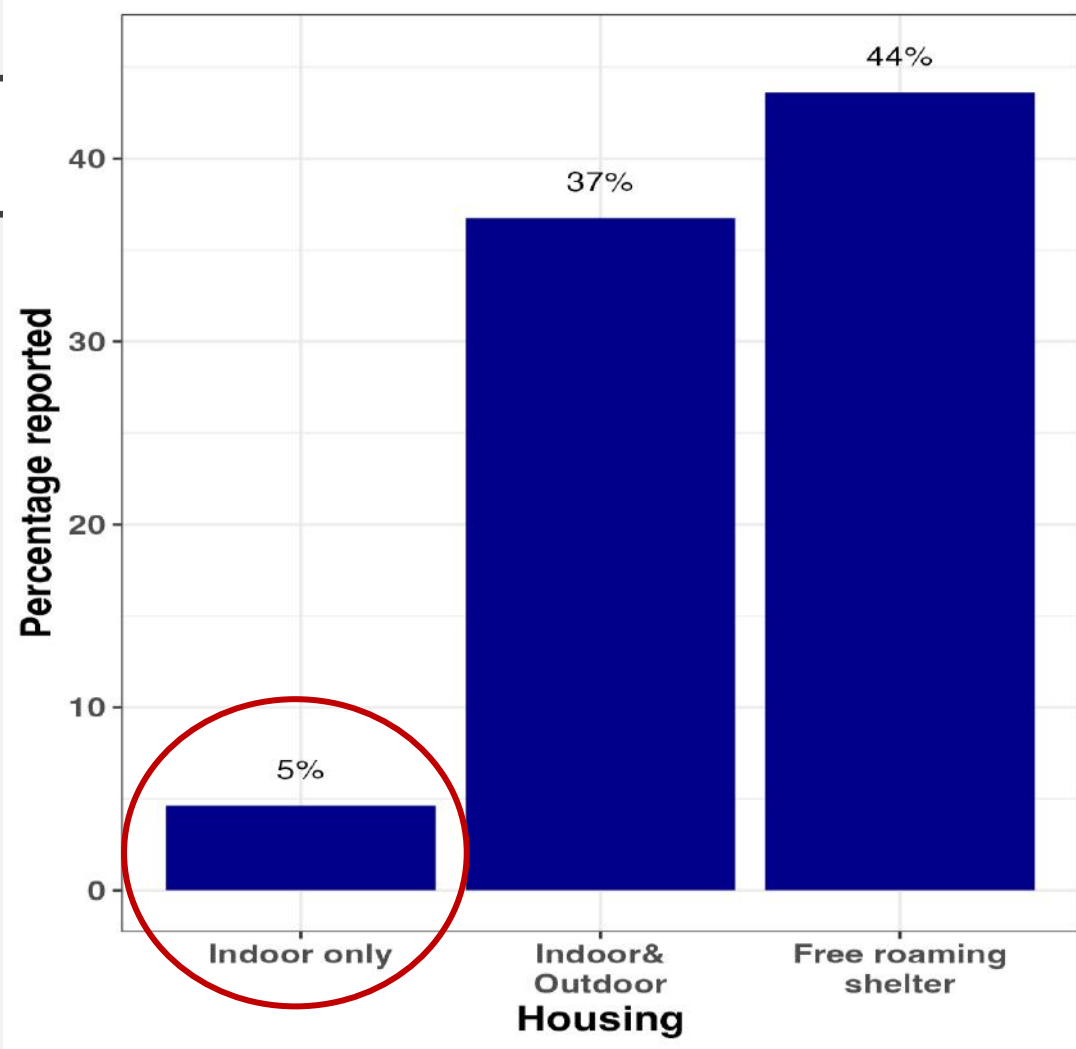




THE UNIVERSITY of EDINBURGH
The Royal (Dick) School
of Veterinary Studies



HOUSING STATUS*



*Questionnaire data



Courtesy of Dr. Stella Mazeri



DIAGNOSTIC CHALLENGES

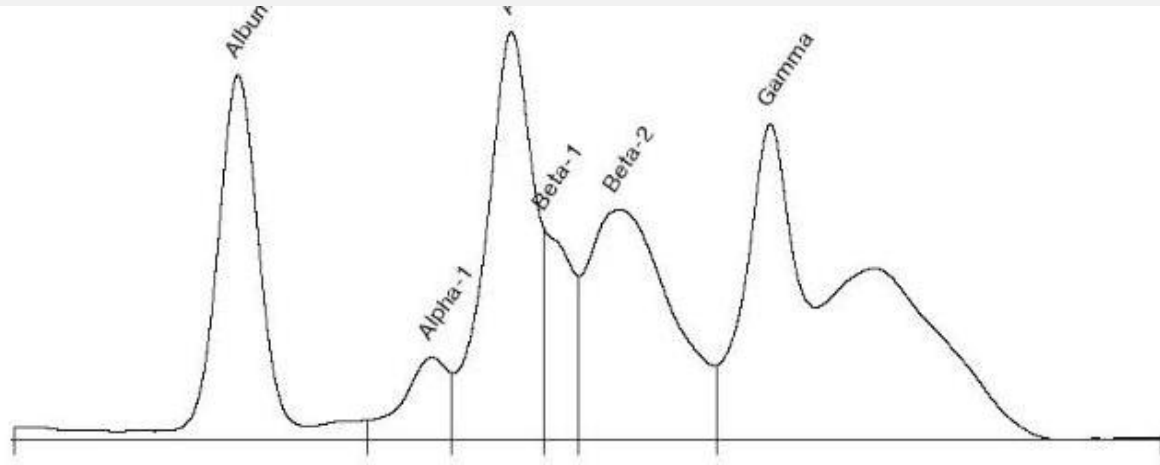
People starting treatment trials without securing a diagnosis (black market treatments)

Many cases were neurological and/or dry and securing a diagnosis was difficult

A1- glycoprotein is not commercially available in Cyprus at that time

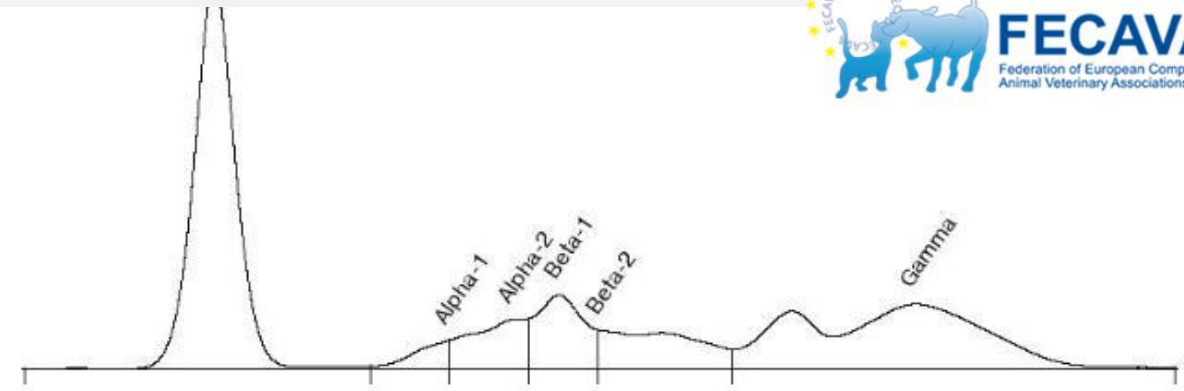
Serum amyloid A – rapid normalisation after starting treatment, early increases at relapses (€€€€)

Serum electrophoresis – gamma hyperglobulinaemia in all cases even if total globulins were normal – takes 4-8 weeks to normalise



Albumin (%)	17.1	44.5 - 62.3	%	-	
alpha-1 globulin (%)	3.7	2.2 - 7.6	%		
alpha-2 globulin (%)	19.1	5.7 - 19.9	%		
beta-1 globulin (%)	5.5	2.8 - 11.3	%		
beta-2 globulin (%)	19.1	3.1 - 11.7	%	+	
gamma globulin (%)	35.5	5.9 - 23.0	%	+	
Albumin (abs.)	13.0	31.0 - 47.0	g/l	-	
alpha-1 globulin (abs.)	2.8	1.6 - 5.2	g/l		
alpha-2 globulin (abs.)	14.5	4.0 - 12.8	g/l	+	
beta-1 globulin (abs.)	4.2	1.9 - 7.4	g/l		
beta-2 globulin (abs.)	14.5	2.0 - 8.5	g/l	+	
gamma globulin (abs.)	27.0	3.6 - 16.9	g/l	+	

PRE-TREATMENT



Total protein	73	59 - 87	g/l		
A/G	0.71	> 0.57			
Albumin (%)	41.6	44.5 - 62.3	%	-	
alpha-1 globulin (%)	2.5	2.2 - 7.6	%		
alpha-2 globulin (%)	7.3	5.7 - 19.9	%		
beta-1 globulin (%)	8.9	2.8 - 11.3	%		
beta-2 globulin (%)	9.4	3.1 - 11.7	%		
gamma globulin (%)	30.3	5.9 - 23.0	%	+	
Albumin (abs.)	30.4	31.0 - 47.0	g/l	-	
alpha-1 globulin (abs.)	1.8	1.6 - 5.2	g/l		
alpha-2 globulin (abs.)	5.3	4.0 - 12.8	g/l		
beta-1 globulin (abs.)	6.5	1.9 - 7.4	g/l		
beta-2 globulin (abs.)	6.9	2.0 - 8.5	g/l		
gamma globulin (abs.)	22.1	3.6 - 16.9	g/l	+	

3 WEEKS ON TREATMENT

Courtesy of Dr. Maria Lyraki and Dr Charalambos Attipa

THERAPEUTIC CHALLENGES

- No vaccination available
- No **legal** treatment available (up to June 2023)
- Need for treating a high number of cases
- Large population of sick cats were strays
- GS and remdesivir are first line but realistically very expensive for most people
- Monitoring relapses

III. TREATMENT OPTIONS

- Cyprus is the first European country which has approved 3 different pharmaceutical products for the treatment of FIP.
- The treatment options were approved in accordance to the European Medicines Reg. 6/2019



MOLNUPIRAVIR

- Pancyprrian Veterinary Association by joining efforts with the Ministry of Agriculture and the Government Veterinary Services of Cyprus allowed human molnupiravir to be used in the treatment of cats with FIP in Cyprus.
- Safety and efficacy is assessed via clinical questionnaires and serum EIDD-1931 levels measured during rechecks
- Veterinary pharmaceutical companies have shown interest to compound EIDD-1931

Sick cats in Cyprus begin COVID drug treatment

Some 500 boxes of anti-COVID tablets have been given to vets in Cyprus to help treat cats who have contracted feline infectious peritonitis, which left untreated, could be fatal.

Thursday 10 August 2023 12:42, UK



IS FCOV-23
SPREADING???

FIRST FCoV-23 CASE IN THE UK

- 9-month-old female cat who developed clinical signs (fever and ascites) compatible with FIP a few weeks after importation from Cyprus.
- The peritoneal fluid was a modified transudate with neutrophilic inflammation.
- Subsequent viral sequencing of the peritoneal fluid revealed that the cat was infected with FCoV-23
- Following confirmation of FIP due to the FCoV-23, treatment has been initiated



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New strain of feline coronavirus identified in the UK

14 Nov 2023

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BVA issues statement following a new strain of feline coronavirus detected in a cat imported into the UK.



A new strain of feline coronavirus (FCoV-23), first identified in the recent outbreak in Cyprus, has been detected in a cat imported from Cyprus into the UK. A cat infected with FCoV-23 may go on to develop Feline Infectious Peritonitis (FIP) which can cause death if not treated.

Feline Coronavirus and FIP are both seen in the UK but existing strains of FIP are not known to spread between cats. The speed at which FCoV-23 spread across Cyprus suggests that this new virus is behaving differently and that it is being spread from cat to cat, most likely via faeces. This is a concerning change.

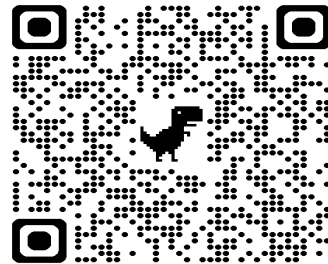
BVA President Anna Judson said: "The arrival of FCoV-23 in the UK is highly concerning, but so far this looks to be an isolated case in an imported cat, and action has been taken to minimise any spread of the virus. There is no known risk to people but pet owners should remain vigilant, because the virus can cause Feline Infectious Peritonitis, which if left untreated can be fatal to cats. If owners have any concerns about their pet, they should speak to their vet immediately."

"The discovery of FCoV-23, combined with the increasing cases of Brucella canis from dogs on our shores, shows the UK is seriously vulnerable to imported diseases. The Government needs to get on top of this crucial issue by introducing the long overdue import testing measures BVA has been calling for."



WHAT TO DO IF YOU SUSPECT AN FCoV-23 CASE?

- **Check travel history** (of cats AND owners) on all FIP cases
- If there is suspicious travel history to Cyprus:
 - PCR positive samples should be sent to Edinburgh Uni for sequencing to confirm if FCoV-23 - please contact fipresearch.greececyprus@gmail.com
 - In the interim, the cat is being kept strictly indoors, and viral shedding is monitored during treatment
 - The owner needs to implement advance hygiene measures to avoid further spread of the virus
 - Treat as every other FIP case.



Scan Me!!!!

<https://sites.google.com/view/fipresearch-greececyprus/home>



**WHAT CAN WE
WAIT FOR IN
THE UPCOMING
MONTHS?**



EPIDEMIOLOGY

Projects

Surveillance of FCoV-23 in FIP/sick cats from Cyprus



Dr Mazeri

Investigate potential of mechanical transmission of FCoV-23



Dr Filippitzi

Epidemiology of FIP and comparison of the circulating FCoV strains in Greece



Dr Epaminondas



IMMUNO-PATHOLOGY

Building a bio-bank



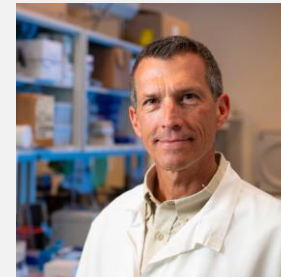
Dr Hardas

Characterize the immune profile of the “FCoV-23 outbreak” FIP



Dr Herber

Presence and protective nature of neutralising antibodies against FCov-23



Prof Dean

The role of NETs and histones in FIP



Prof Hosie



Dr. Attipa



CLINICAL STUDIES



Establishing the clinical manifestations of FCoV-23



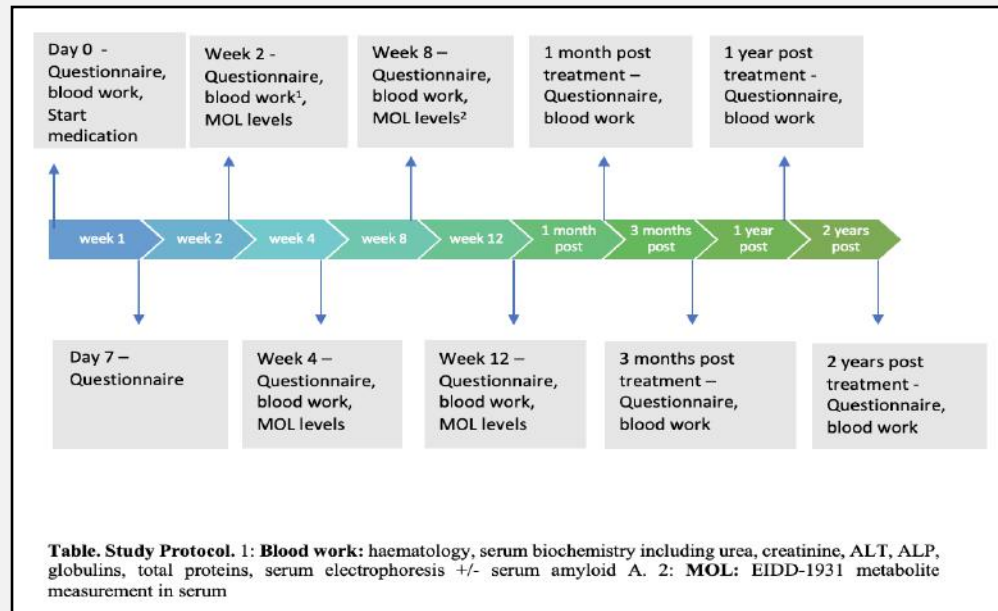
Prof. Gunn-Moore



Therapeutic drug monitoring for the treatment of FCoV-23



Dr. Lyraki

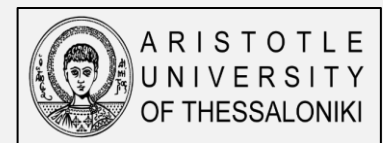


Dr. Petra Cerna



SPECIAL THANKS

- Dr. Maria Lyraki
- University of Edinburgh and Roslin Institute
 - Dr. Charalampos Attipa
 - Prof. Danielle Gunn-Moore
 - Dr. Stella Mazeri
 - Dr. Christine Tait-Burkard
- The Pancyprian Veterinary Association
- Micro sampling Ltd – Oxford Nanopore -Vet-Diagnosis - Laboklin
- FCoV-23 Centre of Excellence
- Morris Foundation, Every Cat Foundation – Dr. Drew Weigner and Vicky Thayer
- Dr. Maria-Eleni Filippitzi, Aristotle University of Thessaloniki



A SEPTEMBER TO REMEMBER



A Room
with a
ZOO

30th
FECAVA
EUROCONGRESS

FLANDERS MEETING AND
CONVENTION CENTER
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office@fecavaeurocongress.org

3-6
September
2025

A SEPTEMBER TO REMEMBER

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ANTWERP

5 REASONS TO COME TO OUR NEXT FECAVA EUROCONGRESS

01. UNMISSABLE EDUCATIONAL OPPORTUNITIES

Join us for three daily streams conducted in English, French, German, and CAT, featuring our ROCK-STARS speakers on:

- Advanced Pain Management Techniques
- Internal Medicine and Endocrinology Insights
- The Wonders of Reproductive Science
- Understanding Feline Behaviors and Antics

02. EXPERIENCE A STUNNING VENUE, SURROUNDED BY NATURE

03. PARTICIPATION IN A SOCIALLY RESPONSIBLE & ENVIRONMENTALLY CONSCIOUS EVENT

Commitment of the Antwerp ZOO Society to environmental sustainability, scientific research, animal welfare and education. Sustainability in vet practice.

04. EPIC FRIDAY PARTY AT AN AMAZING SITE: BACK TO THE 90S!

05. CELEBRATION OF FECAVA'S 30 TH BIRTHDAY JOIN & MEET THE FECAVA FAMILY!



A Room with a ZOO

www.fecava.org
office@fecavaeurocongress.org

A SEPTEMBER TO REMEMBER

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ANTWERP

FEATURING SPEAKERS



ANA NEMEČ
Dentistry



BOGDAN ALEXANDRU
VIȚĂLARI
Nephrology/Urology



CLARISSE d'AOUT
Feline Medicine



FEDERICO FRACASSI
Endocrinology



JENNIFER VON LUCKNER
Gastroenterology



KRIS GOMMEREN
Emergency and critical care



LAURENT FINDJI
Soft tissue surgery



EBERHARD LUDEWIG
Diagnostic imaging



SAM TAYLOR
Feline Medicine



STEPHAN NEUMANN
Diagnostics in practice



ADELINE BETTING
Internal medicine



PAULO STEAGALL
Anesthesia



XAVIER LEVY
Reproduction

and many
others...

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THANK YOU!

Cats are Connecting People!!



<https://sites.google.com/view/fipresearch-greececyprus/home>



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Questions?

