

1222-2022  
**800**  
ANNI



UNIVERSITÀ  
DEGLI STUDI  
DI PADOVA



Dipartimento di  
Biomedicina Comparata  
e Alimentazione

**UNISVET**



# SHORT SPECIALIZING MASTER DEGREE IN VETERINARY ONCOLOGY

**SCIENTIFIC DIRECTOR:**  
**PROF. MASSIMO CASTAGNARO, DVM, PHD, DIPL. ECVF**  
**FULL PROFESSOR OF VETERINARY PATHOLOGY**

**VICE-DIRECTOR:**  
**DR. CHIARA LEO, DVM, MSC, FHEA, DIPL. ACVIM (ONCOLOGY), DIPL. ECVIM-CA (ONCOLOGY)**

**TEACHING METHOD: BLENDED**

**LANGUAGE: ENGLISH**

# SCHEDULE

## **WEEK 1 - ONLINE**

15-19 November 2021

## **WEEK 2 - ONLINE**

24-28 January 2022

## **WEEK 3 - ONLINE**

21-25 March 2022

## **WEEK 4 - ONLINE**

6-10 June 2022

## **WEEK 5 - Frontal Lectures at UniPD, Italy**

26-30 September 2022

The program of the Short Specializing Master Degree in Veterinary Oncology also includes some Live sessions online lasting one hour with the Oncology Master team.

The team of the Master will be at your disposal for any questions about the program, for further information on the topics covered during the various modules, and the evaluation test.

# INVITED SPEAKERS

## **Dr. Nicholas Bacon**

DVM, MA, VetMB, Cert. VR, Cert. SAS,  
Dipl. ECVS, Dipl. ACVS, FRCVS

## **Dr. Jerome Benoit**

DVM, Dipl. ACVR (Radiation Onc) Dipl.  
ECVDI, MRCVS

## **Prof. Chiara Brachelente**

DVM, PhD, Dipl. ECVP, Associate Professor

## **Dr. Federico Bonsembiante**

DVM, PhD

## **Dr. Juan Borrego**

DVM, Dipl. ACVIM (Oncology)

## **Dr. Julia Buchholz**

DVM, Dipl. ACVR, Dipl. ECVDI

## **Prof. Massimo Castagnaro**

DVM, PhD, Dipl. ECVP,  
Full Professor of Veterinary Pathology

## **Dr. Ruthanne Chun**

DVM, Dipl. ACVIM (Oncology)

## **Dr. Francesco Cian**

DVM, Dipl. ECVCP, FRCPath, MRCVS

## **Dr. Pachi Clemente**

DVM, Dipl. ACVIM (Oncology)

## **Dr. Stefano Cortellini**

DVM, Dipl. ACVECC, Dipl. ECVECC, FHEA,  
MRCVS

## **Prof. Maria Elena Gelain**

DVM, PhD, Dipl. ECVCP

## **Dr. Iain Grant**

DVM, BVSc Dipl. ACVIM MRCVS

## **Dr. Ana Lara**

DVM, MSc, PhD, FHEA, MRCVS, Dipl.  
ACVIM, Dipl. ECVIM-CA, RCVS

## **Dr. Gerard Mc Lauchlan**

BVMS, Dipl. ECVIM-CA, MRCVS, FHEA

## **Dr. Chiara Leo**

DVM, MSc, FHEA, Dipl. ACVIM  
(Oncology), Dipl. ECVIM-CA (Oncology)

## **Dr. Lorenzo Mari**

DVM, Dipl. ECVN, MRCVS

## **Dr. Daniela Murgia**

DVM, GPCert (SATS), Dipl. ECVS, MRCVS,  
Hon. Associate Professor of Small Animal  
Surgery University of Nottingham (UK)

## **Dr. Valentina Piola**

DVM, Dipl. ECVDI, MRCVS

## **Dr. Federico Porporato**

DVM, MRCVS, Dipl. ECVIM-CA (Internal  
Medicine)

## **Dr. Silvia Rabba**

DVM, MSc, Dipl. ECVDI

## **Dr. Vincenzo Rondelli**

DVM, PhD

## **Dr. Enrico Pierluigi Spugnini**

DVM, PhD, Dipl. ACVIM (Oncology),  
Dipl. ECVIM-CA (Oncology)

## **Dr. Joshua Stern**

DVM, PhD, Dipl. ACVIM (Cardiology)

## **Dr. Paola Valenti**

DVM, MS, Dipl. ACVIM (Oncology)

## **Dr. Simona Vincenti**

DVM, Dipl. ECVS, MRCVS

## **Dr. Jenn Willcox**

DVM, Dipl. ACVIM (Oncology)

## **Prof. Valentina Zappulli**

DVM, MSc, PhD, Dipl. ECVP

# SUMMARY

## GOALS

The Master, in collaboration with the University of Padua, offers veterinarians the opportunity to:

- improving knowledge of cancer cases;
- refine the skills needed to manage pet patients with neoplastic forms;
- construct an appropriate diagnostic algorithm necessary for accurate diagnosis of animal tumours;
- decide on “gold standard” therapies for the most common cancers in veterinary practice and, where appropriate, where to report the most complex cases.

The Master also offers the knowledge to establish a constructive communication with the owners of animals about the condition of their animals, the frequent need to establish a chronic therapy that takes into account the quality of life of the animal and the possibility of accompanying the patient and the owner until the end of the life of the animal.

## PROFILE, EMPLOYMENT AND PROFESSIONAL OPPORTUNITIES

As a result of the Master, the student will be able to enhance his/her capability to face the most frequent oncological cases seen in the veterinary practice in terms of tumors identification and the administration of the best therapeutical option available.

**LANGUAGE: ENGLISH** 

# INTRODUCTION

The **Short Specializing Master Degree in Veterinary Oncology** offers practitioners eager to improve their understanding of oncologic cases the skills necessary to manage a pet patient with cancer, build a sensible diagnostic algorithm to get a precise diagnosis, to offer the gold standard therapies for the most common cancer types or, when appropriate, to discuss when referral is warranted.

It also offers the knowledge base necessary to have a constructive communication with pet-owners about their pet's condition, to follow a (most of the time) chronic therapy track focusing on quality of life, and, eventually, to accompany patients and owners until the pet's end of life.

Oncology has become a fundamental part of the daily routine for veterinarians, as cancer is unfortunately the first diagnosis in pets: not everything is loss, though, and progresses have been made for cancer pet treatments: chemotherapy, radiation therapy, reconstructive surgery, targeted therapy are now available and should be offered to pet-owners.

The **AIM** of this course is to offer you a wide overview that starts with the biology of cancer, the specific behavior of the most common cancer seen in pets, their prognostic factors and the treatments that fit the disease and the patient too.

The **GOAL** is to prepare you to confidently receive a cancer patient in primary care practice without fear and to recognize when a specialist's advice has to be sought.

The course instructors are composed of **internationally recognized experts** in veterinary oncology and related veterinary sciences.

The Oncology Master is composed of a thorough and intensive program divided into 5 modules, each lasting 1 week (5 days), spread over a 1-year period.

The master is mainly theoretical with a focus on practical oncology, with some training focus on cytology and imaging.

Self-learning material will also be provided for allowing a deeper understanding of the topics and a final test will be delivered.



## ON DEMAND LECTURES

### LECTURES

Metronomic chemotherapy

I. Grant

Biphosphonates & Monoclonal antibodies

I. Grant

Chemotherapy: administration and chemo-safety

C. Leo

Chemotherapy: general acute adverse events

P. Valenti

Chemotherapy: general chronic adverse events

P. Valenti

Chemotherapy classes: vinca alkaloids, enzymes

C. Leo

Chemotherapy classes: anthracyclins, anthracedions, anti-tumoural antibiotics

C. Leo

Chemotherapy classes: platinum compounds

C. Leo

Chemotherapy classes: alkylating agents

P. Valenti

Chemotherapy classes: antimetabolites and others

P. Valenti

Steroids & Nsaids

P. Valenti



**Monday, 15<sup>th</sup> - November 2021**

## WHAT VETERINARY ONCOLOGY MEANS FOR PATIENTS, OWNERS AND VETS

### TIME

### LECTURES

09.00 - 09.15	Master course presentation, greetings M. Castagnaro - C. Leo
09.15 - 10.15	The big questions: what is cancer, where does it come from? I. Grant
10.15 - 11.15	The big questions: where does it go? I. Grant
11.15 - 12.15	The hallmarks of cancer part I M. Castagnaro
12.15 - 13.30	<i>Lunch Break</i>
13.30 - 14.30	The hallmarks of cancer part II M. Castagnaro
14.30 - 15.30	History of Veterinary Oncology, philosophy, specialties R. Chun
15.30 - 16.30	Ethical issues in veterinary oncology, cure vs palliation, too little vs too much R. Chun
16.30 - 17.30	Evidence-based medicine: ideal world vs reality R. Chun

Lessons will be held on Zoom platform.  
A five-minute break will be scheduled after each lesson



Tuesday, 16<sup>th</sup> - November 2021

## LET'S GET TO KNOW THE ENEMY

### TIME

### LECTURES

09.00 - 10.00

Immune system: a quick review  
M.Castagnaro

10.00 - 11.00

Immune system and cancer: allied or enemies?  
M.Castagnaro

11.00 - 12.00

Paraneoplastic syndromes  
I. Grant

12.00 - 13.30

*Lunch Break*

13.30 - 14.30

*What is available in veterinary medicine and what do we know?*  
R. Chun

14.30 - 15.30

Principles of chemotherapy – how, when  
R. Chun

15.30 - 16.30

Chemotherapy doses: practical examples of increasing/  
decreasing the dose  
R. Chun

16.30 - 17.30

Chemotherapy induction, consolidation and rescue protocols:  
what does it mean?  
R. Chun



# THE GREEN WEEK

WEEK 1 - 15<sup>th</sup> - 19<sup>th</sup> November 2021

Wednesday, 17<sup>th</sup> - November 2021

## PHARMACOLOGY OF ANTINEOPLASTIC DRUGS I

### TIME

### LECTURES

09.00 - 10.00

Chemotherapy classes: vinca alkaloids, enzymes  
C. Leo

10.00 - 11.00

Chemotherapy classes: anthracyclins, anthracedions, anti-tumoural antibiotics  
C. Leo

11.00 - 12.00

Chemotherapy classes: platinum compounds  
C. Leo

12.00 - 13.00

Chemotherapy classes: alkylating agents  
P. Valenti

13.00 - 14.30

*Lunch Break*

14.30 - 15.30

Tyrosine-kinase family proteins  
R. Chun



15.30 - 16.30

Tyrosine-kinase inhibitors uses and toxicities  
R. Chun



# THE GREEN WEEK

WEEK 1 - 15<sup>th</sup> - 19<sup>th</sup> November 2021

Thursday, 18<sup>th</sup> - November 2021

## SISTEMIC THERAPIES AGAINST CANCER

### TIME

### LECTURES

09.00 - 10.00

Chemotherapy classes: antimetabolites and others  
P. Valenti

10.00 - 11.00

Steroids & Nsaids  
P. Valenti

11.00 - 12.00

Metronomic chemotherapy  
I. Grant

12.00 - 13.00

Biphosphonates & Monoclonal antibodies  
I. Grant

13.00 - 14.30

*Lunch Break*

14.30 - 15.30

Chemotherapy: general acute adverse events  
P. Valenti

15.30 - 16.30

Chemotherapy: general chronic adverse events  
P. Valenti

16.30 - 17.30

Supporting drugs for oncological patient undergoing chemotherapy  
C. Leo



17.30 - 18.30

Q&A Session  
C. Leo





Friday, 19<sup>th</sup> - November 2021

## COMMUNICATION IN VETERINARY ONCOLOGY

### TIME

### LECTURES

09.00 - 10.00

Communication with the owners of oncological patients: how to give bad news  
I. Grant

10.00 - 11.00

When therapies fail: concept of hospice and palliative care  
I. Grant

11.00 - 12.00

Dealing with the end of life  
I. Grant

12.00 - 13.00

Becoming familiar with the concept of emotional fatigue  
I. Grant

13.00 - 14.30

*Lunch Break*

14.30 - 16.30

**Chemotherapy exercises**  
C. Leo



## ON DEMAND LECTURES

In order to access the module, it is mandatory to watch all the on demand lectures (45 min approx each) in advance

### LECTURES

Blood smear evaluation: knowing what is normal, helps recognizing what is abnormal

[F. Bonsembiante](#)

Haematologic abnormalities

[F. Bonsembiante](#)

Introduction to cytology (sample collection, preparation, staining and examination)

[F. Cian](#)

Principles of inflammatory and neoplastic cytology

[F. Cian](#)

Histology: basic principles

[V. Zappulli](#)

What can we ask to our pathologist and how

[V. Zappulli](#)

Immunohistochemistry applied to oncology

[C. Brachelente](#)

Principles of surgical oncology

[S. Vincenti](#)

How to biopsy a tumour

[S. Vincenti](#)

Concepts of staging: WHO & TNM systems

[C. Leo](#)



Monday, 24<sup>th</sup> - January 2022

## A WORLD OF CELLS I

### TIME

### LECTURES

09.00 - 10.00	Cytology of lymph nodes (normal, reactive, inflammatory, metastatic) F. Cian
10.00 - 11.00	Cytology of canine lymphoma M.E. Gelain
11.00 - 12.00	Cytology of feline lymphoma M.E. Gelain
12.00 - 13.30	<i>Lunch Break</i>
13.30 - 14.30	Cytology of bone marrow M.E. Gelain
<b>14.30 - 15.55</b>	<b>Practical exercises</b> F. Bonsembiante - M.E. Gelain

Lessons will be held on Zoom platform.  
A five-minute break will be scheduled after each lesson



Tuesday, 25<sup>th</sup> - January 2022

## A WORLD OF CELLS II

### TIME

### LECTURES

09.00 - 10.00	Cytology of cutaneous/subcutaneous lesions (inflammatory, non neoplastic, epithelial and mesenchymal tumours) F. Cian
10.00 - 11.00	Cytology of cutaneous/subcutaneous lesions (round cell tumours) F. Cian
11.00 - 12.00	Cytology of cavitory effusions M.E. Gelain
12.00 - 13.00	Cytology of uro-genital system F. Cian
13.00 - 14.30	<i>Lunch Break</i>
14.30 - 15.30	Cytology of gastro-intestinal tract, liver and spleen F. Cian



Wednesday, 26<sup>th</sup> - January 2022

## A WORLD OF CELLS III

### TIME

### LECTURES

09.00 - 10.00

Proliferation markers: what's for?  
C. Brachelente

10.00 - 11.00

Why do we care about grading?  
C. Brachelente

11.15 - 12.00

Evaluation of margins from an oncopathologist point of view  
V. Zappulli

12.00 - 13.30

*Lunch Break*

13.30 - 14.30

Lymph node evaluation: metastatic or not?  
C. Brachelente

14.30 - 15.55

**Interactive cases**  
C. Brachelente - V. Zappulli



Thursday, 27<sup>th</sup> - January 2022

## A TEAM WORK

### TIME

### LECTURES

09.00 - 10.00

Imaging applied to oncology: when and how  
[V. Piola](#)

10.00 - 11.00

Thoracic radiographs interpretation  
[S. Rabba](#)

11.00 - 12.00

Abdominal ultrasound and ultrasound-guided sampling:  
what is possible?  
[V. Piola](#)

12.00 - 13.30

*Lunch Break*

13.30 - 14.30

Principles of CT scan and interaction between the radiologist  
and the oncologist  
[V. Piola](#)

14.30 - 15.30

The future: PET-CT  
[S. Rabba](#)

**15.30 - 16.55**

**Clinical cases / practical exercises**  
[V. Piola](#) - [S. Rabba](#)





Friday, 28<sup>th</sup> - January 2022

## A WORLD OF BLACK AND WHITE

### TIME

### LECTURES

09.00 - 10.00

How to make your pathologist happy: correct preparation of samples

[C. Brachelente - S. Vincenti](#)

10.00 - 11.00

Definition of surgical margins: concepts of proportional margins and impact of grading

[C. Brachelente - S. Vincenti](#)

11.00 - 12.00

Intraoperative margins identification: where are we and where can we go?

[C. Brachelente - S. Vincenti](#)

12.00 - 13.30

*Lunch Break*

**13.30 - 14.55**

**A clinical case and open discussion about sentinel lymph nodes in veterinary oncology**

[C. Brachelente - S. Vincenti](#)

# THE PURPLE WEEK

WEEK 3 - 21<sup>st</sup> - 25<sup>th</sup> March 2022



## ON DEMAND LECTURES

In order to access the module, it is mandatory to watch all the on demand lectures (45 min approx each) in advance

### LECTURES

Canine lymphoma and leukaemia classifications

M.E. Gelain

Feline lymphoma and leukaemia classifications

M.E. Gelain

Concepts of radiation therapy I

J. Benoit

Concepts of radiation therapy II

J. Benoit

How to choose the best RT protocol for a patient - considerations and practical examples

J. Benoit

Emergencies in oncology: hypercalcemia, hypoglycemia, haemoabdomen, haemothorax

S. Cortellini

Mast cell tumor biology and prognostic factors I

C. Leo

Mast cell tumour biology and prognostic factors II

C. Leo

Cardiology refresher course, Radiographs, Echo, ECG

J. Stern

Identifying and Managing Arrhythmias in oncology patients

J. Stern

# THE PURPLE WEEK

WEEK 3 - 21<sup>st</sup> - 25<sup>th</sup> March 2022



Monday, 21<sup>st</sup> - March 2022

## MAST CELL TUMOURS FROM A TO Z

### TIME

### LECTURES

09.00 - 10.00	Mast cell tumor: therapeutical algorithm P. Clemente
10.00 - 11.00	Mast cell tumour: treatment options I P. Clemente
12.00 - 13.30	<i>Lunch Break</i>
13.30 - 14.30	Mast cell tumour: treatment options II P. Clemente
14.30 - 15.30	Use of TKI: EBVM P. Clemente
<b>15.30 - 16.30</b>	<b>MCT clinical cases</b> P. Clemente - C. Leo
16.30 - 17.30	Q&A Session P. Clemente - C. Leo

Lessons will be held on Zoom platform.  
A five-minute break will be scheduled after each lesson

# THE PURPLE WEEK

WEEK 3 - 21<sup>st</sup> - 25<sup>th</sup> March 2022



Tuesday, 22<sup>nd</sup> - March 2022

## CHRONIC VS ACUTE

### TIME

### LECTURES

09.00 - 10.00

Plasma cell tumours: biology and treatment  
J. Borrego

10.00 - 11.00

Histiocytic disorders: presentations and treatments  
J. Borrego

11.00 - 12.00

Acute and chronic leukaemias from a clinical point of view  
J. Borrego

12.00 - 13.00

Radiation therapy for lymphoproliferative tumours  
J. Benoit



Wednesday, 23<sup>rd</sup> - March 2022

## IN THE EMERGENCY ROOM

### TIME

### LECTURES

09.00 - 10.00	Canine haemangiosarcomas: presentation, biology and treatment A. Lara
10.00 - 11.00	Canine visceral haemangiosarcomas: local and systemic therapies A. Lara
11.00 - 12.00	Mediastinal masses: diagnostic and therapeutical algorithm C. Leo
12.00 - 13.00	Pulmonary primary tumours: classification and biology C. Leo
13.00 - 14.30	<i>Lunch Break</i>
14.30 - 15.30	Mesothelioma: unravelling the mistery A. Lara
15.30 - 16.30	Intranasal tumours: presentation and biology J. Benoit
16.30 - 17.30	Intranasal tumours: radiation therapy options J. Benoit

# THE PURPLE WEEK

WEEK 3 - 21<sup>st</sup> - 25<sup>th</sup> March 2022



Thursday, 24<sup>th</sup> - March 2022

## LET'S FACE THE BIG "L"

### TIME

### LECTURES

09.00 - 10.00

Canine lymphoma staging: considerations and controversies  
C. Leo

10.00 - 11.00

Canine lymphoma induction protocols  
C. Leo

11.00 - 12.00

Canine lymphoma rescue protocols  
C. Leo

12.00 - 13.30

*Lunch Break*

13.30 - 14.30

Feline intestinal lymphoma  
C. Leo

**14.30 - 16.15**

**Clinical cases and round table on lymphoma**  
M.E. Gelain - C. Leo

# THE PURPLE WEEK

WEEK 3 - 21<sup>st</sup> - 25<sup>th</sup> March 2022



Friday, 25<sup>th</sup> - March 2022

## THE HEARTBREAKERS

### TIME

### LECTURES

09.00 - 10.00

Assessing and managing systolic dysfunction in the oncology patient  
J. Stern

10.00 - 11.00

Cardiac tumors: clinical presentation, diagnosis, and tumor types  
J. Wilcox

11.00 - 12.00

Cardiac tumors: therapeutic approaches and prognosis  
J. Wilcox

12.00 - 13.00

**Clinical cases**  
J. Stern - J. Wilcox



## ON DEMAND LECTURES

In order to access the module, it is mandatory to watch all the on demand lectures (45 min approx each) in advance

### LECTURES

Utility and controversies of spaying in veterinary oncology

D. Murgia

Tumours of the female reproductive system

V. Zappulli

Tumours of the male reproductive system

C. Leo

Canine G.I tumours

C. Leo

Canine and feline liver tumors

C. Leo

Neurological examination for dummies

L. Mari

Medical options for brain tumours

C. Leo

Ocular tumours

C. Leo



# THE ORANGE WEEK

WEEK 4 - 06<sup>th</sup> - 10<sup>th</sup> June 2022

**Monday, 06<sup>th</sup> - June 2022**

## **GENITO-URINARY TUMOURS**

### **TIME**

### **LECTURES**

09.00 - 10.00

Canine mammary tumours

C. Leo - V. Zappulli

10.00 - 11.00

Feline mammary tumours

C. Leo - V. Zappulli

11.00 - 12.00

Immunohistochemistry and histology prognostic factors

V. Zappulli

12.00 - 13.30

*Lunch Break*

13.30 - 14.30

Surgery techniques for mastectomies

D. Murgia

14.30 - 15.30

Medical treatment for mammary tumours

C. Leo

Lessons will be held on Zoom platform.

A five-minute break will be scheduled after each lesson

# THE ORANGE WEEK

WEEK 4 - 06<sup>th</sup> - 10<sup>th</sup> June 2022

Tuesday, 07<sup>th</sup> - June 2022

## GENITO-URINARY TUMOURS II

### TIME

### LECTURES

09.00 - 10.00

Tumours of the urinary tract: presentation and biology

C. Leo

10.00 - 11.00

Prostate tumours

C. Leo

11.00 - 12.00

Surgical approach to the tumours of the urinary tract and prostate

D. Murgia

12.00 - 13.00

Radiation options for the urinary tract and prostate tumours

J. Buchholz

13.00 - 14.30

*Lunch Break*

14.30 - 15.30

Treatment options for the urinary tract tumours

C. Leo

15.30 - 16.30

Interventional radiology for the urinary and prostate cancer

G. Mc Lauchlan

**16.30 - 17.30**

**Clinical cases**

G. Mc Lauchlan

# THE ORANGE WEEK

WEEK 4 - 06<sup>th</sup> - 10<sup>th</sup> June 2022

Wednesday, 08<sup>th</sup> - June 2022

## GASTRO-INTESTINAL TUMOURS I

### TIME

### LECTURES

09.00 - 10.00

Q&A Session  
C. Leo

10.00 - 11.00

Surgical techniques for gastric neoplasia  
D. Murgia

11.00 - 12.00

Is the surgical approach to tumours of the small and large intestine different?  
D. Murgia

12.00 - 13.30

*Lunch Break*

13.30 - 14.30

Interventional radiology for the liver  
G. Mc Lauchlan

14.30 - 15.30

Medical treatment for gastrointestinal tumors  
C. Leo

15.30 - 16.30

**Clinical cases**  
G. Mc Lauchlan

# THE ORANGE WEEK

WEEK 4 - 06<sup>th</sup> - 10<sup>th</sup> June 2022

Thursday, 09<sup>th</sup> - June 2022

## GASTRO-INTESTINAL TUMOURS II

### TIME

### LECTURES

09.00 - 10.00

Peri-anal tumours: presentation and biology

C. Leo

10.00 - 11.00

Surgical planning for AGASACA

D. Murgia

11.00 - 12.00

AGASACA medical options

C. Leo

12.00 - 13.00

AGASACA radiation options

J. Benoit

13.00 - 14.30

*Lunch Break*

14.30 - 15.30

Considerations of a radiation oncologist towards treatment of the abdomen

J. Benoit

**15.30 - 16.45**

**Clinical cases**

J. Benoit - D. Murgia - C. Leo

# THE ORANGE WEEK

WEEK 4 - 06<sup>th</sup> - 10<sup>th</sup> June 2022

Friday, 10<sup>th</sup> - June 2022

## CENTRAL AND PERIPHERAL NERVOUS SYSTEM TUMOURS

### TIME

### LECTURES

09.00 - 10.00

Tumours of the nervous system

J. Buchholz

10.00 - 11.00

Radiation therapy for brain tumours

J. Buchholz

11.00 - 12.00

New radiation techniques for brain tumors: IMRT and SRT

J. Buchholz

12.00 - 13.00

Spinal cord tumors

J. Buchholz

Monday, 26<sup>th</sup> - September 2022

## CUTANEOUS TUMOURS

TIME	LECTURES
09.00 - 10.00	Skin tumours I E. Spugnini
10.00 - 11.00	Skin tumours II E. Spugnini
11.00 - 11.30	<i>Coffee break</i>
11.30 - 12.30	Feline cutaneous squamous cell carcinoma – biology and behaviour P. Clemente
12.30 - 13.30	Feline cutaneous squamous cell carcinoma – treatment P. Clemente
13.30 - 14.30	<i>Lunch Break</i>
14.30 - 15.30	Canine cutaneous squamous cell carcinoma P. Clemente
15.30 - 16.30	Principles of electrochemotherapy E. Spugnini
16.30 - 17.00	<i>Coffee break</i>
<b>17.00 - 18.30</b>	<b>Clinical cases</b> P. Clemente - E. Spugnini

Frontal lectures will be held at UniPD (Padua, Italy)

**Tuesday, 27<sup>th</sup> - September 2022**

## **IT'S A HARD DAY - BONE TUMOURS**

<b>TIME</b>	<b>LECTURES</b>
09.00 - 10.00	Bone radiographs interpretation V. Piola
10.00 - 11.00	Bone biopsy techniques N. Bacon
11.00 - 11.30	<i>Coffee break</i>
11.30 - 12.30	Osteosarcoma: biology and prognostic factors C. Leo
12.30 - 13.30	Osteosarcoma: surgical options N. Bacon
13.30 - 14.30	<i>Lunch Break</i>
14.30 - 15.30	Osteosarcoma: medical options C. Leo
15.30 - 16.30	Chondrosarcoma and multilobulated osteochondrosarcoma N. Bacon
16.30 - 17.00	<i>Coffee break</i>
17.00 - 18.00	Pain management in small animals: medical options V. Rondelli
18.00 - 19.00	Pain management in small animals: alternative options V. Rondelli

Wednesday, 28<sup>th</sup> - September 2022

## MOUTH WIDE OPEN

### TIME

### LECTURES

09.00 - 10.00	Imaging of the oral tumours V. Piola
10.00 - 11.00	Feline and canine oral squamous cell carcinoma C. Leo
11.00 - 11.30	<i>Coffee break</i>
11.30 - 12.30	Surgery for oral tumours in dogs N. Bacon
12.30 - 13.30	Surgery for oral tumours in cats N. Bacon
13.30 - 14.30	<i>Lunch Break</i>
14.30 - 15.30	Radiation therapy for oral tumours in dogs J. Benoit
15.30 - 16.30	Radiation therapy for oral tumours in cats J. Benoit
16.30 - 17.00	<i>Coffee break</i>
17.00 - 18.00	Canine oral melanoma: approach and prognostic factors J. Benoit
18.00 - 19.00	Canine Oral melanoma: immune-therapy C. Leo



**Thursday, 29<sup>th</sup> - September 2022**

## **IT'S A SOFT DAY - SOFT TISSUE SARCOMAS**

### **TIME**

### **LECTURES**

09.00 - 10.00	Soft tissue sarcomas: classification and biological behaviour <i>N. Bacon</i>
10.00 - 11.00	Canine soft tissue sarcoma: a review of literature <i>N. Bacon</i>
11.00 - 11.30	<i>Coffee break</i>
11.30 - 12.30	Canine soft tissue sarcoma: surgical approach depending on grading <i>N. Bacon</i>
12.30 - 13.30	Canine soft tissue sarcoma: medical approach depending on grading <i>C. Leo</i>
13.30 - 14.30	<i>Lunch Break</i>
14.30 - 15.30	Radiation therapy for soft tissue sarcomas <i>J. Benoit</i>
15.30 - 16.30	Feline injection-site sarcoma: the history of a problem <i>C. Leo</i>
16.30 - 17.00	<i>Coffee break</i>
17.00 - 18.00	Radiation therapy for FISS <i>J. Benoit</i>
18.00 - 19.00	Surgical therapy for FISS <i>N. Bacon</i>

**Friday, 30<sup>th</sup> - September 2022**

## **ONCOLOGY & ENDOCRINOLOGY: POINTS OF VIEW OF THE SAME DISEASE**

<b>TIME</b>	<b>LECTURES</b>
09.00 - 10.00	Adrenal tumours from the endocrinologist point of view F. Porporato
10.00 - 11.00	Adrenal tumours from the oncologist point of view C. Leo
11.00 - 11.30	<i>Coffee break</i>
11.30 - 12.30	Adrenal tumours from the surgeon point of view N. Bacon
12.30 - 13.30	Thyroid carcinoma: biology and therapy C. Leo
13.30 - 14.30	<i>Lunch Break</i>
14.30 - 15.30	Thyroid carcinoma: surgical approach N. Bacon
15.30 - 16.30	Parathyroid tumors from the endocrinologist point of view F. Porporato
16.30 - 17.00	<i>Coffee break</i>
17.00 - 18.00	Insulinoma and glucagonoma from the endocrinologist point of view F. Porporato
18.00 - 19.00	Pancreatic tumours: surgical approach N. Bacon

# GROUNDWORK

## Knowledge required for the admission test:

- Understand the concepts and basic mechanisms of preneoplastic and neoplastic diseases
- Understand the normal microscopic anatomy and tissue differentiation
- Understand the tumour classification based on the cytological types
- Understand the basics of pharmacology, pharmacokinetic and pharmacodynamic (administration routes, tissue distribution, metabolism, excretion)
- Demonstrate familiarity with the main concepts of veterinary immunology: innate and acquired immune system, immune system cells and their classification
- Demonstrate familiarity with the main concepts of veterinary hematology (origin of the blood cells, classification of cell lines)
- Demonstrate familiarity with the main concepts and classification of anemia, thrombocytopenia, leucopenia
- Demonstrate familiarity with the main concepts of veterinary blood biochemistry and the main organ disfunction (liver, renal, pancreatic insufficiency etc)
- In order to pass the test it is necessary to grasp a broad knowledge, though not deep, of the above mentioned topics, which should have been already addressed during the graduation studies.

## Suggested books:

- **Kirk's Current Veterinary Therapy XV** – Bonagura, Twedt
- **Veterinary Immunology** – Tizard
- **Small Animal Clinical Oncology** – Withrow & MacEwen 5<sup>th</sup> or 6<sup>th</sup> edition

# INFORMATION

**TEACHING METHOD: BLENDED (taught class / distance learning)**

**REGISTRATION FEE:**

€ 6.024,50

First payment: € 4.024,50

Second payment: € 2.000,00

**ECTS: 60**

**PLACES AVAILABLE:**

Minimum: 35 PARTICIPANTS

Maximum: 50 PARTICIPANTS

**REGISTRATION PROCEDURE:**

The registration procedure must be done exclusively through the UniPD portal:

<https://www.unipd.it/corsi-master/oncologia-veterinaria>

**Application submission deadline:**

8<sup>th</sup> October 2021 (12.30 p.m. closing procedure filling in application online)

**Criteria for selection:**

Evaluation of qualifications, written examination, possible oral examination

For information and registration procedures please contact UniPD:

**Dott. Stefano Bianchini**

Tel: 049 8272517

E-mail: stefano.bianchini@unipd.it

**VENUE:**

Dipartimento di Biomedicina Comparata ed Alimentazione - BCA

Viale dell'Università, 16 - 35020 Legnaro (PD)

*ATTACHEMENT A: Technical instructions for completing the application form*