美國獸醫病理專科訓練經驗分享

陳雅媚

國立屏東科技大學獸醫學系 助理教授

DVM, MS, PhD, DCSVP & DACVP 04/22/2022

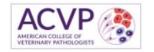
CV

- 國立屏東科技大學獸醫學系
- 公職獸醫師
- 國立臺灣大學獸醫學系分子比病所 碩士
- 臨床獸醫師
- Diplomate of CSVP
- 教育部公費留學生資格
- 2017-2021 Iowa state university, US
 - PhD
 - Resident of anatomic pathology
- 2021 Diplomate of ACVP
- 國立屏東科技大學獸醫學系 助理教授

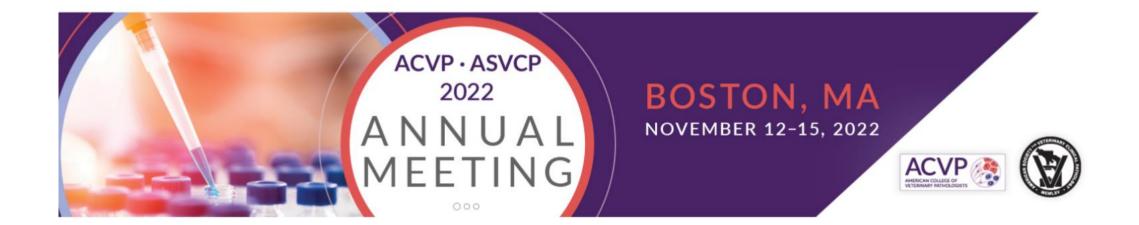
Outline

- American College of Veterinary Pathologists (ACVP)訓練制度介紹
- ACVP phase 1 考試經驗分享
- ACVP phase 2 考試經驗分享
- 病理資源分享

AMERICAN COLLEGE OF VETERINARY PATHOLOGISTS



About Annual Meetings Education MOC Exam Careers Training Members Only



How to become a Diplomate ACVP

- After graduation from a veterinary college or school, candidates must be trained in veterinary anatomic pathology if they are seeking certification in veterinary anatomic pathology
- Residency training 12 months
- Phase 1 exam
- Residency training 36 months + passed phase 1
- Phase 2 exam
- There are different types of residency training

IOWA STATE UNIVERSITY

College of Veterinary Medicine Veterinary Pathology

VPATH About V Academics V Faculty/Staff V Research V Services V Forms V

UPDATES

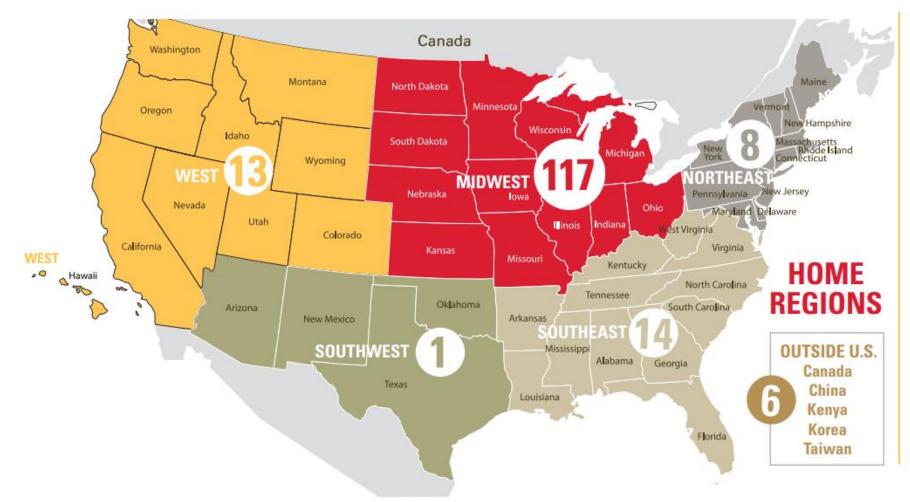
CVM COVID-19 Moving Foward

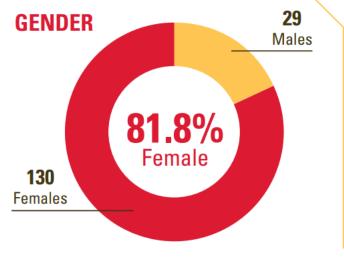


Iowa State University established the first public veterinary college in the nation in 1879.









Pathologists in VPATH



Milliams,
Amanda
DVM, PhD,
Diplomate
ACVP



Lawson,
Cheryl Auch
DVM, MS,
Diplomate
ACVP



Smith, Jodi D DVM, PhD, Diplomate ACVP



Viall, Austin DVM, MS, Diplomate ACVP



Fasina,
Olufemi
DVM, PhD,
Diplomate
ACVP



Mooyottu, Shankumar DVM, PhD, Diplomate ACVP



Andreasen,
Claire B
DVM, PhD,
Diplomate
ACVP



Yaeger,
Michael J
DVM, PhD,
Diplomate
ACVP



Haynes,
Joseph S
DVM, PhD,
Diplomate
ACVP



Morton, Mark
C
DVM,
Diplomate
ACVP

Combined residency/Ph.D. program in ISU

Criteria for Training

- 1. Completion of criteria for ACVP board eligibility as outlined for the Department of Veterinary Pathology (Appendix A below), including service duties within the department. Further details of the program are present in Appendix B.
- 2. Successful completion of required course work as described for the departmental graduate program for anatomic pathology.
 - Masters
 - PhD
- 3. Participation and completion of teaching pathology courses in the professional curriculum for DVM students.

 Currently required teaching courses in the anatomic pathology series are: V Pth 342 Spring and V Pth 372 Fall.
- 4. Attendance at required seminars for training: 604 seminar, gross pathology slide review, departmental WIP, AFIP slide review, necropsy rounds with senior students. Other rounds are optional.
- 5. Presentations at national meetings including: ACVP, AAVLD, ASM, and similar meetings.
- 6. For a graduate degree from the Department of Veterinary Pathology, it is required that the major professor or comajor professor will be housed in the Department of Veterinary Pathology.

72 credits required

- V PTH 570 SYSTEMIC PATHOLGY I 4.0
- V PTH 571 SYSTEMIC PATHOL II 4.0
- V PTH 679 HISTOPATH LAB ANIML 2.0
- V PTH 550 SURGICAL PATHOL LAB 1.0(x 2)
- V PTH 551 POSTMORT PATHOL LAB 1.0 (x 2)
- V PTH 604 PATHOL CASE SEMINAR 1.0 (x 2)
- VDPAM 551 ADV VET DIAGNOS LAB 1.0

Weekly seminar

- Monday: Journal club
- Tuesday: Wednesday Slide Conference
- Thursday: 604 path case seminar
- Friday: Gross pathology

Duty schedule in ISU

- Pathologists: 20 weeks per year
- Residents: 10-12 weeks per year
- Necropsy week
- Biopsy week

Combined residency/Ph.D. program in ISU

- Residency training 12 months
- Phase 1 exam
- Residency training 36 months + passed phase 1
- Phase 2 exam

- Year 1
- Year 2
 - Phase I
 - Prelim exam
- Year 3
 - Teaching duty
 - Year 4
 - Phase II
 - Final oral defense

Animal species focused on the ISU

- Farm animals (pigs, cattle, sheep)
- Horses
- Small animals
- Avian

ACVP phase 1 考試經驗分享

Introduction

- Phase I examination is a 2-hour examination composed of 100 multiple choice questions, covering all aspects of veterinary general pathology.
- knowledge of mechanisms fundamental to disease in animals such as principles of cellular injury, inflammation and repair, hemodynamic disorders, physical and chemical injury, neoplasia, congenital and genetic diseases, molecular pathology, and infections.
- The mechanisms tested in this section are "general" in that they relate to most animal species and exclude entities in single species.

Phase 1 reading list

Principal Sources

- Kumar V, et al. Robbins and Cotran Pathologic Basis of Disease (Chapters 1 to 9)
- Zachary JF. Pathologic Basis of Veterinary Disease (Chapters 1 to 6)

Supplemental Sources

- Cheville NC. Ultrastructural Pathology: The Comparative Cellular Basis of Disease
- Haschek WM, Rousseaux CG, Wallig MA. Fundamentals of Toxicologic Pathology
- Veterinary Pathology (review articles)
- Toxicologic Pathology (review articles)
- New England Journal of Medicine (review articles)
- American Journal of Pathology (review articles)

Phase I Sample Questions

A morphologic feature of autophagy is:

- A. Organelle swelling
- B. Nuclear fragmentation
- C. Pericellular neutrophils
- D. Cytoplasmic intravacuolar whorls

The classical pathway of the complement cascade is activated when IgM binds:

- A. C1q
- B. C1r
- C. C1s
- D. C3b

ACVP phase 2 考試經驗分享

Introduction

- 3 sections of 100 MCQs each
 - Previous: slides, gross, knowledge sections
- macroscopic conditions
- microscopic changes
- selection of interpretation and integration of clinicopathologic data
- selection and interpretation of appropriate ancillary tests
 - special stains, IHC, electron microscopy, PCR-based clonality, flow cytometry, cytology and ISH
- knowledge related to the pathophysiology, progression and diagnosis of disease in animals; and current literature

Species Distribution

- 50 70% Domestic animals
- 20 30% Laboratory animals
- 10 20% Non-domestic animals

Animal species focused on the US

- Horses
- Small animals
- Farm animals
- Lab animals
- Exotic animals (less)
- Avian (less)
- Fish (less)
- Honey bee! Coral!

Phase 2 reading list principal sources

Textbooks

- Maxie MG. Jubb, Kennedy and Palmer's Pathology of Domestic Animals
- Zachary JF. Pathologic Basis of Veterinary Disease
- Scott MA, Stockham SL. Fundamentals of Veterinary Clinical Pathology
- Clinical pathology atlases
 - Raskin RE, Meyer DJ. Canine and Feline Cytology
 - Valenciano AC, Cowell RL. Diagnostic Cytology and Hematology of the Dog and Cat

Journals

- Veterinary Pathology
- Journal of Comparative Pathology
- Journal of Veterinary Diagnostic Investigation

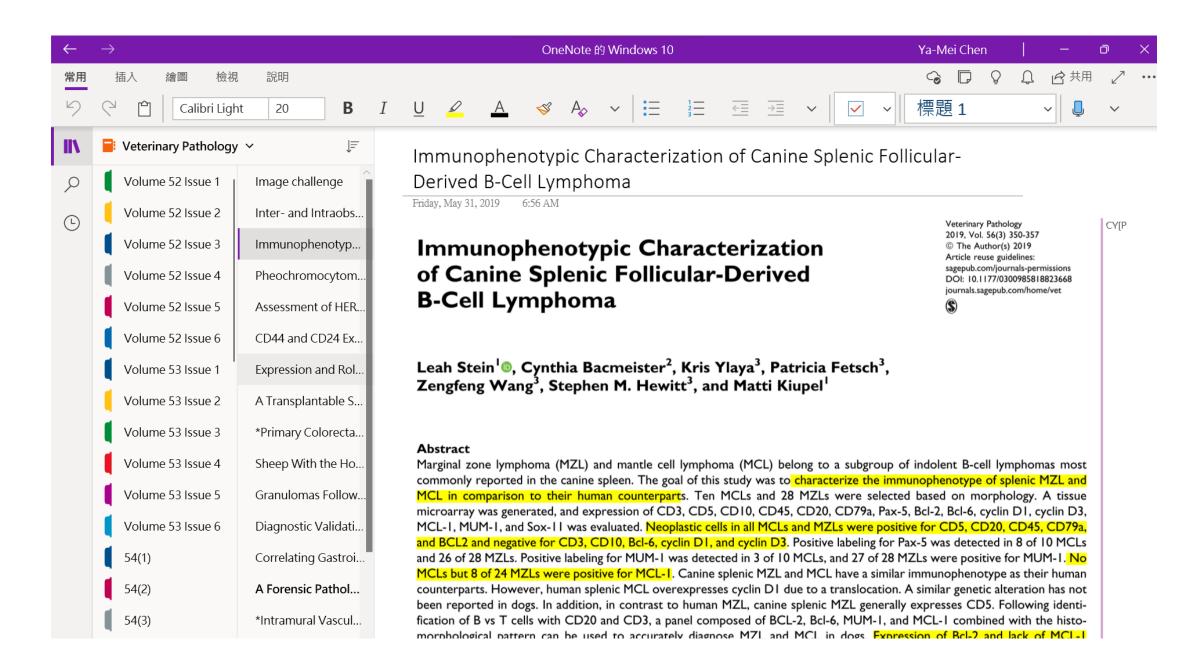
Phase 2 reading list supplemental sources

Textbooks

- Terio K, McAloose, St. Leger J. Pathology of Wildlife and Zoo Animals
- Barthold SW, Griffey SM, Percy DH. Pathology of Laboratory Rodents and Rabbits
- Noga EJ. Fish Disease: Diagnosis and Treatment (Chapters 4, 5, 7-15)
- Abee C, Mansfield K, Tardif S, Morris T. Non-Human Primates in Biomedical Research: Diseases (2012, Chapters 1, 2, 4, 6, 9, 11, 12, 13, 15)
- The American Association of Avian Pathologists. Avian Disease Manual
- Schmidt RE, Reavill DR, Phalen DN. Pathology of Pet and Aviary Birds

Journals

Toxicologic Pathology (review articles)



病理資源分享

How do I get from here to there?

https://clip.cafe/doctor-strange-2016/how-do-i-get-from-here-there/

Study and practice. Years of it.

Dr. Stephen Strange: How do I get from here to there?

The Ancient One: How did you get to reattach severed nerves and put a human spine back together bone by bone?

Dr. Stephen Strange: Study and practice. Years of it.

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- The American Association of Avian Pathologists. Avian Disease Manual
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Journals

Toxicologic Pathology (review articles)



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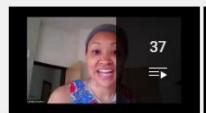
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Standardizing Tumor Pathology Reporting

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Seminar Series in Portuguese

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About JPC

WSC Program

VSP Program

APQR Program

THE JOINT PATHOLOGY CENTER (JPC)

Resources

VSPO

WSC

Download WSC 21-22 Virtual Slides

Self Assessment

Study Center

NEVPC 2018

COPLOW Study Set

Video Library

Archives

WSC Worksheets

WSC Archives

Graded WSC Descriptions

Select from WSC

Index of Cases

Q

Links

American College of Veterinary Pathologists

CL Davis Foundation

Society of Toxicologic Pathology

First Year Graduate Veterinary Education (FYGVE)

Current conference: Wednesday Slide Conference 2021 - 2022 Conference 24

Please be advised that viewing the virtual slide for the first time requires log in. The Username is "guest". No password is required











CURRENT WORKSHEET

WSC 2021 - 2022

Conference Date	Conf	Case	Conference Date	Conf	Case
August 18, 2021	01	1234WS	January 12, 2022	14	1234WS
August 25, 2021	02	1234WS	January 19, 2022	15	1234WS
September 1, 2021	03	1234WS	January 26, 2022	16	1234WS
September 15, 2021	04	1234WS	February 2, 2022	17	1234WS
September 22, 2021	05	1234WS	February 9, 2022	18	1234WS
September 29, 2021	06	1234WS	February 16, 2022	19	1234WS
October 6, 2021	07	1234WS	March 23, 2022	20	1234WS
October 13, 2021	08	1234WS	March 30, 2022	21	1234WS
November 17, 2021	09	1234WS	April 6, 2022	22	1234WS
December 1, 2021	10	1234WS	April 20, 2022	23	1234WS
December 8, 2021	11	1234WS	April 27, 2022	24	1234WS
December 15, 2021	12	1234WS	May 4, 2022	25	1234WS
January 5, 2022	13	1234WS			

https://www.askjpc.org/wsco/index.php

Attend the ACVP meeting

- Workshop
- New topics
- Case reports
- Mystery slides

Thank you