

TCLAM

Taiwan College of Laboratory Animal Medicine
臺灣獸醫實驗動物專科醫學會

年度報告 | 2024
Annual Report





臺灣獸醫實驗動物專科醫學會

Taiwan College of Laboratory Animal Medicine

2024 年度報告

Annual Report

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理事長的話

PRESIDENT'S REPORT

臺灣獸醫實驗動物專科醫學會成立的主要目的除了實驗動物獸醫師的專科訓練，更秉持 3R 的政策維護實驗動物的福利，整合產官學能量與亞太國家合作分享繼續教育資源，並致力提升台灣實驗動物獸醫師本質學能。感謝所有理監事的分工合作與努力，讓第一階段的實驗動物獸醫師的認證正是於今年開始啟動執行，目前正進行 56 小時的實驗動物專業課程訓練，更期待 2026 年就可以進行專業考試，完成第一階段的認證。學會更積極參與國際事務，目前加入 APCLAM 的創始會員，期待亞太實驗動物學會於 2025 年 11 月正式啟動開展。

雖然台灣獸醫師執業的人數有 6000 人左右，但實際參與實驗動物獸醫師的人數約 200 人左右，占有獸醫師比例約 1/30 所屬小眾。學會將積極和其他臨床獸醫學會合作更與小動物臨床獸醫師緊密結合，鼓勵臨床獸醫師的參與本學會所開設的如何進行動物臨床試驗課程，了解臨床試驗如何符合動物福利原則，使得臨床試驗或研究可以更符合相關法令規範。此外也積極進入校園推廣實驗動物醫師的工作內容及優勢，吸引更多的年輕獸醫師的加入。

未來學會除了完成第一階段的認證實務，將會開展第二階段的實驗動物專科獸醫師的住院醫師訓練，期待未來將培養出台灣的實驗動物專科獸醫師與世界接軌。更會積極參與國際事務，與其他國家合作分享台灣經驗與資源。

The primary mission of the Taiwan College of Laboratory Animal Medicine is not only to provide specialized training for laboratory animal veterinarians, but also to uphold the 3Rs (Replacement, Reduction, and Refinement) policy to safeguard animal welfare. TCLAM integrates resources from industry, government, and academia, and actively collaborates with Asia-Pacific countries to share continuing education resources. It is dedicated to enhancing the core competencies of laboratory animal veterinarians in Taiwan.

Thanks to the coordinated efforts of all board members and supervisors, the first phase of the certification for laboratory animal veterinarians officially launched this year. Currently, a 56-hour professional training course on laboratory animal medicine is underway. We look forward to holding the professional examination in 2026, completing the first phase of certification.

TCLAM is also actively involved in international affairs and is now a founding member of the Asia-Pacific College of Laboratory Animal Medicine (APCLAM), with the official launch of the Asia-Pacific college of Laboratory Animal Medicine scheduled for November 2025.

Although there are approximately 6,000 practicing veterinarians in Taiwan, only about 200 are involved in laboratory animal medicine, accounting for about 1 in 30 veterinarians—a relatively niche group. TCLAM will actively collaborate with other clinical veterinary associations, including those in small animal practice, and encourage their participation in courses on conducting clinical trials in animals. These courses aim to enhance understanding of how clinical trials can align with animal welfare principles, ensuring that research and clinical studies comply with relevant legal regulations.

In addition, TCLAM is promoting the profession of laboratory animal veterinarians on university campuses to attract more young veterinarians to the field by highlighting its roles and advantages.

Looking ahead, beyond completing the first phase of certification, TCLAM plans to launch the second phase, which includes a residency training program for laboratory animal specialists. We aim to cultivate board-certified laboratory animal veterinarians in Taiwan who meet global standards. TCLAM will continue its active engagement in international affairs, sharing Taiwan's experiences and resources with other countries around the world.



年度執行摘要

EXECUTIVE SUMMARY

2024 年是臺灣獸醫實驗動物專科醫學會大步向前的一年。3 月 20 日的第一次學會年會暨實驗動物獸醫師課程開設，讓會務正式上軌道，也得到 7 成以上的會員的熱情參與。113 年 11 月 27 日冬季研討會的議程除了吸引更多年輕獸醫師，也開放實驗動物相關領域的技術人員共同參與，透過專題演講、互動課程與討論讓獸醫師與現場技術人員產生共鳴。

學務小組也在五月份完成實驗動物專科獸醫師 56 小時基礎訓練課程規劃與相關課程課綱審查機制，成為台灣第一份實驗動物專科獸醫師在職訓練的專業課程計畫。為了因應開設 56 小時基礎訓練課程的需求，在第三季分別完成動物設施營運管理與獸醫臨床試驗兩個模組課程開設，並且開始規劃 2025 年線上訓練課程。

臺灣獸醫實驗動物專科醫學會也積極與國內、外的實驗動物相關團體合作，促進學術活動。7 月 1 日與中華實驗動物學會、國家實驗動物中心及台灣靈長類學會共同舉辦 "Overview, Expectation and Update of AAALAC International" 專題演講。此外，本專科醫學會與亞太各國實驗動物獸醫相關的組織，共同於韓國首爾成立亞洲太平洋實驗動物獸醫師協會 (Asian Pacific College of Laboratory Animal Medicine)，期待透過亞太各國實驗動物獸醫師的合作，共同建構實驗動物獸醫師教育制度，提升實驗動物獸醫師基礎素養。

The Taiwan College of Laboratory Animal Medicine (TCLAM) marked a major leap forward for promotion of laboratory animal veterinarian education in 2024.

On March 20, TCLAM successfully held its first Annual Meeting and launched the inaugural Laboratory Animal Veterinarian Training Course, formally setting its operations in motion. The event received enthusiastic participation from over 70% of its members, marking a strong and promising start. The Winter Symposium, held on November 27, 2024, aimed not only to attract more young veterinarians, but also opened its doors to technical professionals from related fields in laboratory animal science. Through keynote lectures, interactive sessions, and open discussions, the event fostered deep resonance and mutual understanding between veterinarians and frontline technicians.

In May, the Academic Affairs Working Group completed the design and syllabus review system for a 56-hour foundational training program for Laboratory Animal Veterinarians (LAVs), making it Taiwan's first professional in-service training curriculum specifically for laboratory animal veterinary specialists. To support the implementation of this 56-hour course, two specialized modular courses—Animal Facility Operation and Management and Veterinary Clinical Trials—were launched in the third quarter, respectively. In parallel, planning began for a 2025 online training curriculum, further expanding access and flexibility for continuing education.

TCLAM has also actively engaged in both domestic and international collaborations to promote academic exchange. On July 1, it co-hosted the special lecture titled “Overview, Expectation and Update of AAALAC International” in partnership with the Chinese-Taiwan Society for Laboratory Animal Sciences, the National Laboratory Animal Center, and the Taiwan Primate Society.

Furthermore, TCLAM joined hands with laboratory animal veterinary organizations across the Asia-Pacific region to co-found the Asian Pacific College of Laboratory Animal Medicine (APCLAM) in Seoul, South Korea. This milestone initiative aspires to build a collaborative education framework for laboratory animal veterinarians in the region, aiming to uplift core competencies

and foster regional cooperation in veterinary science.

宗旨 AIMS

臺灣獸醫實驗動物專科醫學會是以非營利為目的之社會團體，成立宗旨在健全我國實驗動物專科獸醫師訓練機制，強化實驗動物專科獸醫師職能發展。

TCLAM is a legally established, non-profit professional organization. Its purpose is to establish a sound national training framework for laboratory animal veterinary specialists in Taiwan.

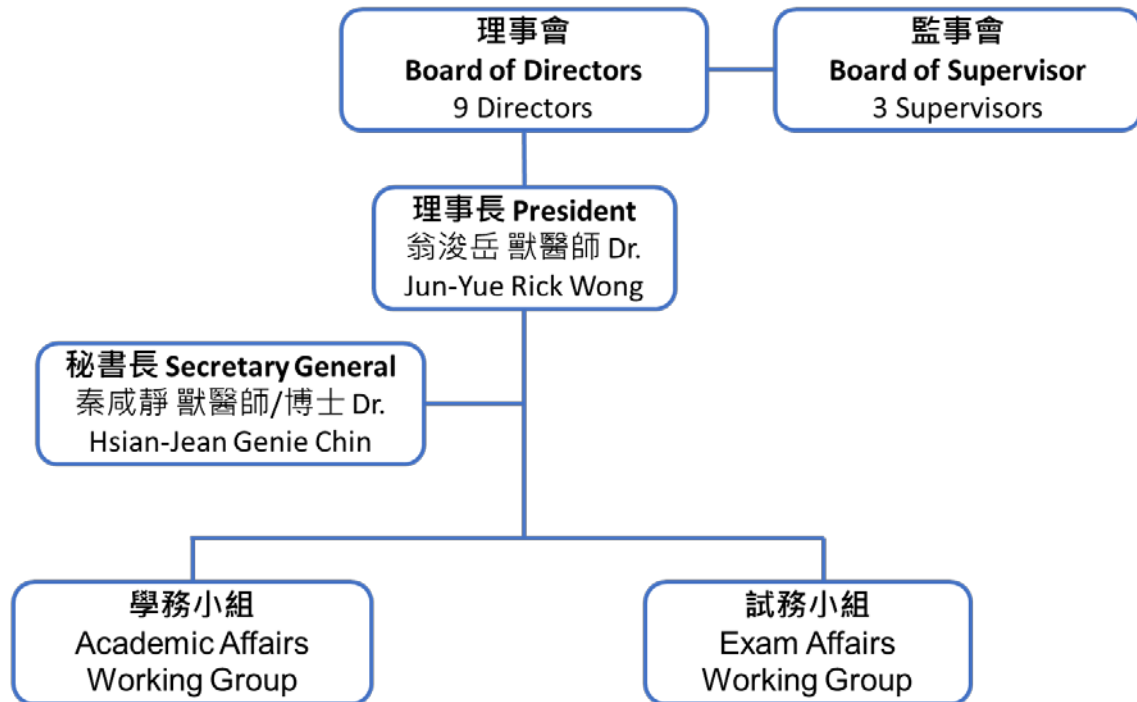
任務 MISSIONS

- 一、強化實驗動物專科獸醫師臨床及分科訓練。
- 二、研議實驗動物專科獸醫教育核心課程指導方針，推進專業課程內容調整，深化臨床獸醫師必備專業素養與能力。
- 三、以關懷生命為基礎，精進基礎獸醫學、醫療及診斷技能及研究分析。
- 四、銜接國內與國際實驗動物專科管理法規、動物衛生管理與營養、公共衛生、食品安全與衛生、職業法律意識與道德等。
- 五、培育學生具備基礎實驗動物專科獸醫學之相關醫療實務知識與防疫檢疫所需之人才。
- 六、推動實驗動物專科獸醫師社會發展之專業價值。
- 七、促進國內實驗動物醫學之發展，增進實驗動物福祉。
- 八、媒合國內生醫科技產學合作發展機會，增加實驗動物專科獸醫師就業機會。



1. To enhance clinical and specialty training for veterinary professionals in laboratory animal medicine in accordance with international standards.
2. To develop and refine core curricular guidelines for laboratory animal veterinary education, promote continuous improvement in academic and practical training, and cultivate essential competencies required of clinical veterinarians.
3. To promote excellence in basic veterinary science, medical and diagnostic skills, and research analysis, grounded in a life-centered and humane approach.
4. To harmonize with domestic and international regulatory frameworks governing laboratory animal medicine, animal health management, nutrition, public health, food safety, professional ethics, and legal compliance.
5. To train future professionals equipped with foundational knowledge and practical skills in laboratory animal veterinary medicine, with the capacity to support national disease prevention, control, and biosecurity systems.
6. To advance the societal and professional recognition of laboratory animal veterinary specialists and reinforce their role within interdisciplinary biomedical research communities.
7. To support the sustainable development of laboratory animal science in Taiwan and promote high standards of animal welfare in research settings.
8. To foster academic–industry collaboration in the biomedical sciences and expand employment opportunities for laboratory animal veterinary specialists.

現況 CURRENT STATUS



- 76 常規獸醫師會員 (Regular Members licensed veterinarians)
- 基礎獸醫師學習時數 (Fundamental education for LAVs) : 56 小時 (hour)
- 教課書 (Textbook) : Laboratory Animal Medicine (3rd Ed. 2015)
- 第一次實驗動物專科獸醫師考試 (The first LAV testing) : 2026

活動 ACTIVITY

第一次學會年會於 3 月 20 日舉行，共計三場專題演講，包括實驗動物專科獸醫師培育計畫、替代科技人才培育計畫及小動物臨床獸醫師參與新藥開發及前瞻醫材發展之趨勢與機會。說明 TCLAM 未來在提升實驗動物專科獸醫師基本素養，扎根學校獸醫師教育與獸醫師在動物用藥臨床試驗的角色。

The inaugural TCLAM Annual Meeting, held on March 20, brought together experts and enthusiasts in three inspiring keynote sessions. These covered the cutting-edge Training Program for LAVs, the innovative Talent Development Program for Alternative Technologies, and emerging Trends and Opportunities for Small Animal Clinical Veterinarians in New Drug Development and Advanced Medical Devices. The event underscored TCLAM's commitment to elevating core competencies of LAVs embedding comprehensive veterinary education within academic institutions, and defining the pivotal role veterinarians play in clinical trials of veterinary pharmaceuticals. This foundational step is set to empower the future leaders in laboratory animal medicine.



教育訓練 EDUCATION

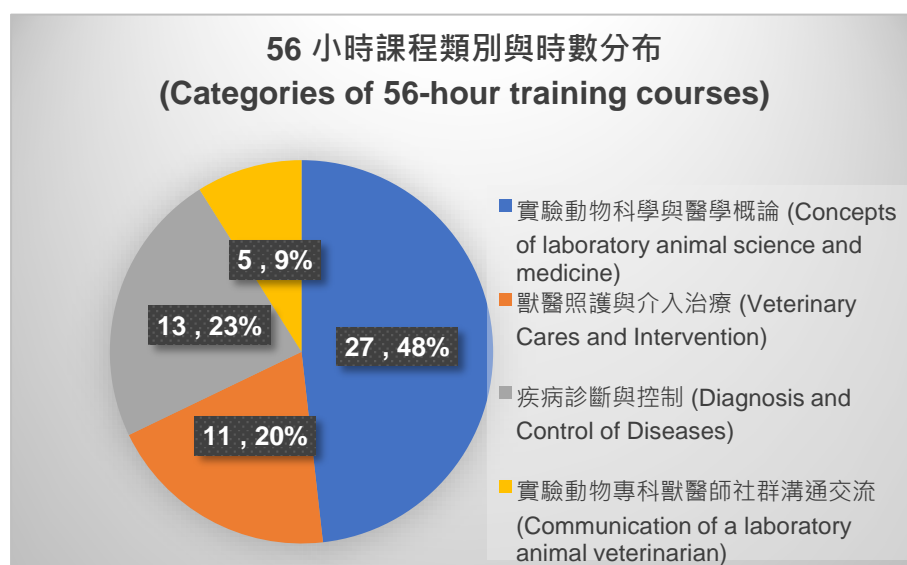
教育訓練規劃在 2024 年透過多次學務小組的開會與討論，於五月份訂定基礎訓練課程規劃與相關課程課綱審查機制，做為 2026 年實驗動物專科獸醫師考試的基礎，並決定以 *Laboratory Animal Medicine (2015)* 為主要的教課書。在 56 小時課程劃分實驗動物科學與醫學概論、獸醫照護與介入治療及實驗動物專科獸醫師社群溝通交流等類別課程，期待養成具有全方位基礎能力的實驗動物獸醫師。

Throughout 2024, the Academic Affairs Working Group engaged in multiple dynamic discussions to craft a robust foundational training curriculum. By May, a strategic syllabus and review system were formalized, laying a solid groundwork for the LAV Certification Examination in 2026. Centered on the authoritative textbook *Laboratory Animal Medicine (2015)*, the comprehensive 56-hour program is thoughtfully divided into key areas: Introduction to Laboratory Animal Science and Medicine, Veterinary Care and Interventional Treatments, and fostering active Communication and Networking within the veterinary community. This program is designed to nurture well-rounded laboratory animal veterinarians equipped with the essential skills to lead and innovate.

8 實體課程 (On-site trainings)

4 工作坊 (Workshops)

384 參與人次 (Participates)

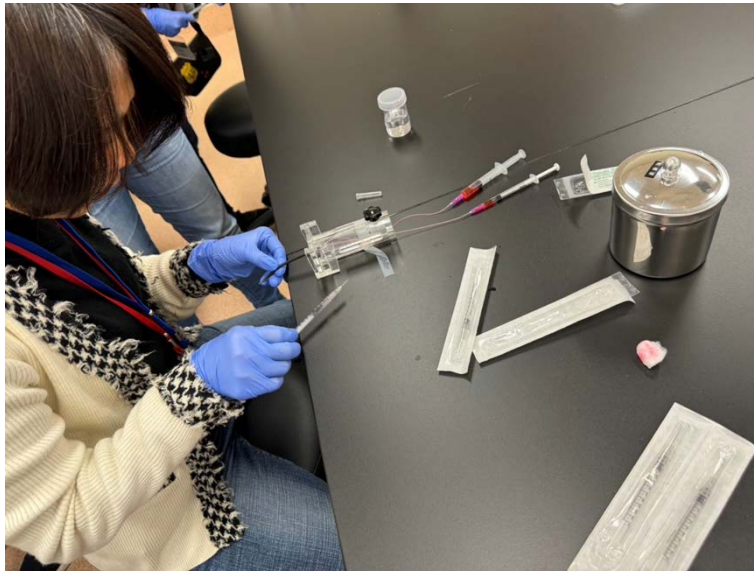


3月20日的第一次實驗動物獸醫師課程，包含兩場的實務交流。一場為探討小型動物設施之設計彈性的動物房參訪，另一場為仿生及模擬教具於手術及教學之應用。動物設施之設計彈性的動物房參訪透過展示國家生物模式中心標準動物設施，從動物房、維生系統與空間配置讓與會的獸醫師了解，動物房應有的配置與規格，並透過實務討論探討小型動物設施如何在有限資源下做到最好。近年來在動物技術教育訓練時，共同的概念是利用仿生或模擬教具讓新進的技術人員或獸醫師熟悉流程並技術重點。因此仿生及模擬教具於手術及教學透過各種自製或商品化的仿生教具，實際體驗如何利用教具練習觸診、注射及手術縫合等技術。

The first Laboratory Animal Veterinarian training session on March 20 was an engaging blend of theory and hands-on practice, featuring two interactive workshops. The first provided an exclusive site visit to explore the flexible design of small-scale animal facilities at the National Center for Biomodels (NCB), showcasing advanced animal housing, life support systems, and spatial layouts. Participants gained invaluable insights into facility standards and resource optimization through lively practical discussions. The second workshop demonstrated the power of biomimetic and simulation-based training tools, allowing new technicians and veterinarians to hone essential surgical skills such as palpation, injection, and suturing in a risk-free, realistic environment. These innovative training methods mark a transformative approach to skill development in laboratory animal medicine.



TCLAM 2024 ANNUAL REPORT



第三季開設動物設施營運管理與獸醫臨床試驗兩個模組課程。內容包括實驗動物獸醫師在動物設施營運扮演的角色、了解設施內的動物-從看懂基因改造鼠開始、和研究團隊進行專業、正義與現實權衡的溝通技巧、動物設施營運團隊建立與管理實務、動物房設計概念、動物設施防護網及啮齒類動物及兔剖檢及病變描述。

In the third quarter, TCLAM launched two highly anticipated modular courses: *Animal Facility Operation and Management* and *Veterinary Clinical Trials*. These courses comprehensively cover the vital role of laboratory animal veterinarians in facility operations, starting from understanding genetically modified mice to mastering professional communication that balances ethics and practicality with research teams. Participants also gained hands-on knowledge in building and managing operational teams, cutting-edge facility design concepts, biosecurity networks, and detailed necropsy and lesion documentation of rodents and rabbits. This curriculum empowers veterinarians with the expertise necessary to drive excellence in animal facility management and clinical research.



獸醫師交流坊舉辦目的是透過來自不同單位的實驗動物獸醫師參訪基礎研究、動物繁殖及臨床前動物測試各種類型不同的實驗動物設施激盪出火花，本年度共舉辦四場中興大學、國家衛生研究院、樂斯科生技公司及臺大動資中心獸醫師交流坊，共達 71 參與人次。

The Veterinarian Exchange Workshops serve as a vibrant platform for fostering innovation and collaboration among laboratory animal veterinarians from diverse institutions. By visiting a variety of specialized animal facilities—ranging from basic research labs to breeding centers and preclinical testing sites—participants sparked fresh ideas and strengthened professional networks. This year, four successful workshops were held at National Chung Hsing University, the National Health Research Institutes, BioLASCO Taiwan, and the NTU Animal Resource Center, engaging a total of 71 enthusiastic attendees. These exchanges fuel continuous advancement and community-building within Taiwan’s laboratory animal veterinary field.



11月27日冬季研討會的議程除了吸引更多年輕獸醫師，也開放實驗動物相關領域的技術人員共同參與，透過獸醫研究力大躍進與動物飼育技術力大考驗兩大主題讓獸醫師與現場技術人員產生共鳴。獸醫研究力大躍進內容包括以人體臨床試驗觀點探討動物藥品臨床試驗之執行、英文論文必備寫作技巧分享、小動物臨床試驗案例分享及實驗動物臨床案例報導。動物飼育技術力大考驗則包含了飼墊料選擇對臨床照護的影響、環境豐富化材料的選擇與應用、實驗鼠開箱及基礎檢查、IVC 微環境與動物福祉及實驗鼠異常辨識。

The Winter Symposium on November 27 was a landmark event designed to energize young veterinarians and invite participation from technical experts in laboratory animal science. Centered around two powerful themes—*Veterinary Research Breakthroughs* and *The Great Challenge of Animal Husbandry Skills*—the symposium created a dynamic dialogue between veterinarians and technicians. Highlights included discussions on conducting veterinary drug clinical trials through the lens of human clinical research, essential English scientific writing skills, sharing of small animal clinical trial cases, and clinical reports on laboratory animals. Complementing this, sessions on bedding selection, environmental enrichment, laboratory mouse handling and examination, IVC microenvironment welfare, and abnormality recognition offered hands-on knowledge vital for enhancing animal care standards. This event reflects TCLAM's dedication to advancing both research excellence and husbandry expertise.



學術鏈結 NETWORKS

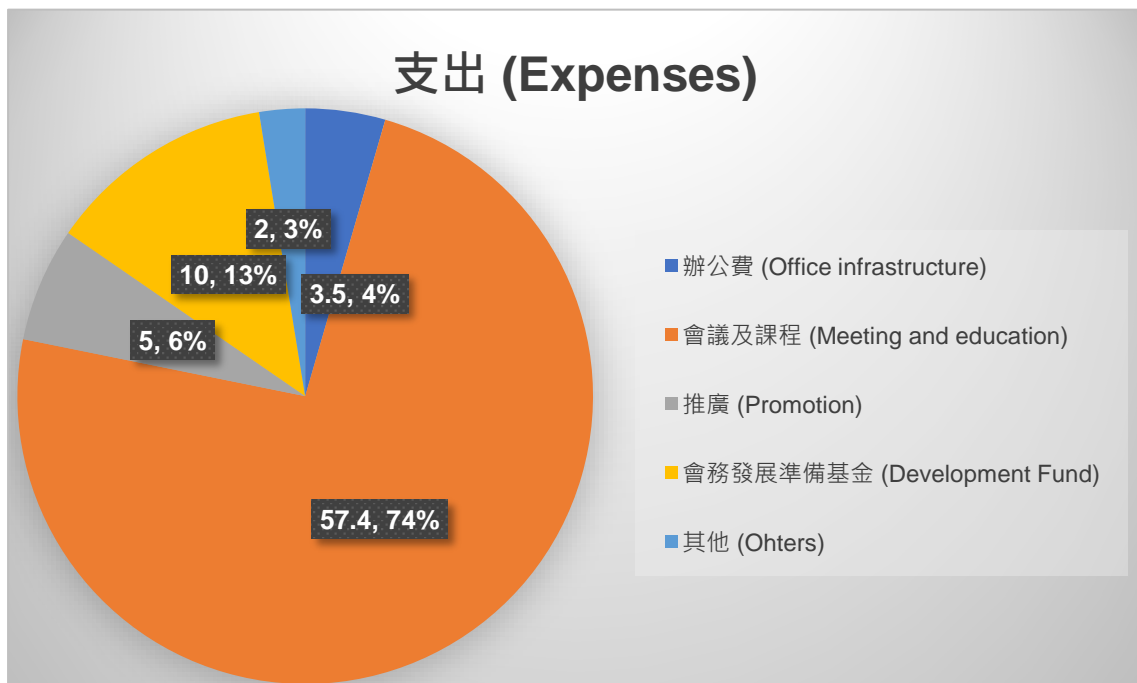
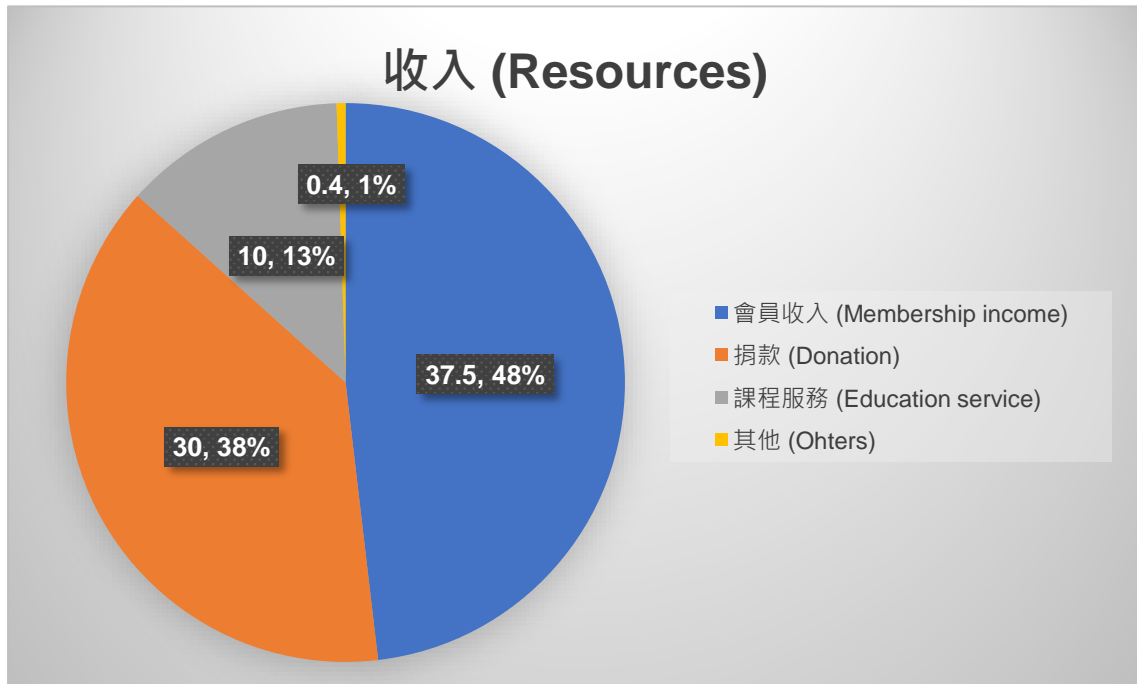
臺灣獸醫實驗動物專科醫學會也積極與國內、外的實驗動物相關團體合作，促進學術活動。7月1日與中華實驗動物學會、國家實驗動物中心及台灣靈長類學會共同舉辦“Overview, Expection and Update of AAALAC International”專題演講。此外，本專科醫學會與亞太各國實驗動物獸醫相關的組織，共同於韓國首爾成立亞洲太平洋實驗動物獸醫師協會 (Asian Pacific College of Laboratory Animal Medicine)，期待透過亞太各國實驗動物獸醫師的合作，共同建構實驗動物獸醫師教育制度，提升實驗動物獸醫師基礎素養。

TCLAM is proud to actively collaborate with both domestic and international laboratory animal organizations to foster vibrant academic exchanges. On July 1, TCLAM joined forces with the Chinese-Taiwan Society for Laboratory Animal Sciences, the National Laboratory Animal Center, and the Taiwan Primate Society to co-host the enlightening special lecture “*Overview, Expectation, and Update of AAALAC International.*” This event exemplifies TCLAM’s commitment to keeping the veterinary community at the forefront of global standards and best practices.

In addition, TCLAM proudly partnered with laboratory animal veterinary organizations across the Asia-Pacific region to co-found the **Asian Pacific College of Laboratory Animal Medicine (APCLAM)** in Seoul, South Korea. This landmark initiative marks a significant step forward in uniting regional expertise to establish a shared educational framework for laboratory animal veterinarians. Through close collaboration and knowledge exchange, APCLAM aims to cultivate a new generation of professionals equipped with strong foundational competencies and to elevate the overall standard of laboratory animal veterinary medicine throughout the Asia-Pacific region.



財務 FINANCES



理事名單 LIST of DIRECTORS 2023-2026

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陳燕輝 Yen-Hui Chen, DVM, PhD	中央研究院生物醫學研究所 Institute of Biomedical Science, Academia SINICA
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陳建豪 Chien-Hao Chen, DVM, MVS	國家生物模式中心 National Center for Biomodels, NIAR
劉福華 Fu-Hwa Liu, DVM, PhD	中央研究院生醫轉譯研究中心台灣小鼠診所 Taiwan Mouse Clinic, BioTReC, Academia SINICA

監事名單 LIST of SUPERVISORS 2023-2026

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