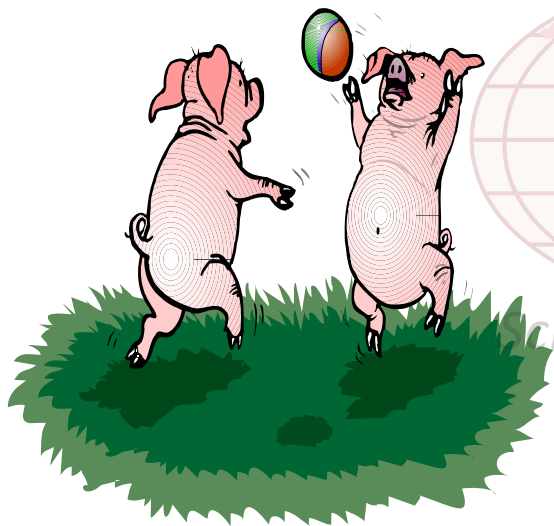




猪圆环病毒病流行特点及防控措施

Epidemic characteristics and prevention and control measures of porcine circovirus disease



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河北省畜牧兽医学会养猪学分会

Pig Breeding Branch of Hebei Society of Animal Husbandry and Veterinary Medicine

2024. 10. 25 成都

自我介绍 Self-introduction

左玉柱，河北农业大学教授，博士，博士生导师，**河北农业大学猪病防控服务团队首席专家**，动物医学专业负责人，保定市政协委员。主要从事动物传染病的教学、科研和社会服务工作。

Zuo Yuzhu, a professor, doctoral supervisor, and **chief expert of the pig disease prevention and control service team at Hebei Agricultural University**, is the head of the animal medicine major and a member of the Baoding Municipal Political Consultative Conference. Mainly engaged in teaching, scientific research, and social services related to animal infectious diseases.

猪场技术服务：**2009-2015年，河北农业大学普瑞纳猪病诊断实验室**，为嘉吉规模化猪场提供免疫程序优化方面的服务和指导。2016年后依托河北农大实验室为京津冀提供疫病诊断和免疫程序优化。

Pig Farm Technical Services: **From 2009 to 2015, the Purina Pig Disease Diagnosis Laboratory at Hebei Agricultural University** provided services and guidance on optimizing immunization programs for Cargill's large-scale pig farms. After 2016, relying on the laboratory of Hebei Agricultural University, we provided disease diagnosis and immune program optimization for the Beijing Tianjin Hebei region.

全国动物疫病净化评估专家，河北省动物疫病预警解析专家，河北省动物防疫和动物卫生风险评估委员会委员，河北省畜牧兽医学学会常务理事，**河北省生猪创新团队疾病防控岗位专家，河北省畜牧兽医学学会养猪学分会会长。**

Expert in National Animal Disease Purification Assessment, Expert in Animal Disease Early Warning Analysis in Hebei Province, Member of Hebei Province Animal Epidemic Prevention and Animal Health Risk Assessment Committee, Executive Director of Hebei Province Animal Husbandry and Veterinary Society, **Expert in Disease Prevention and Control of Hebei Province Pig Innovation Team, and President of the Pig Breeding Branch of Hebei Province Animal Husbandry and Veterinary Society.**



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Science-driven solutions®

一、猪场兽医关注点 Focus points for veterinarians in pig farms

(一) 生猪价格与猪场效益

(1) The price of live pigs and the efficiency of pig farms

月度 季度 半年 年度 三年 五年



一、猪场兽医关注点 Focus points for veterinarians in pig farms

(一) 生猪价格与猪场效益

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供求关系 Relation between supply and demand

供：现有产能：数量与体重 Supply: Existing Capacity: Quantity and Weight

潜在产能：现有猪场的场舍 Potential production capacity: existing pig farm buildings

求：饮食营养多元化 → 人均猪肉消费量下降

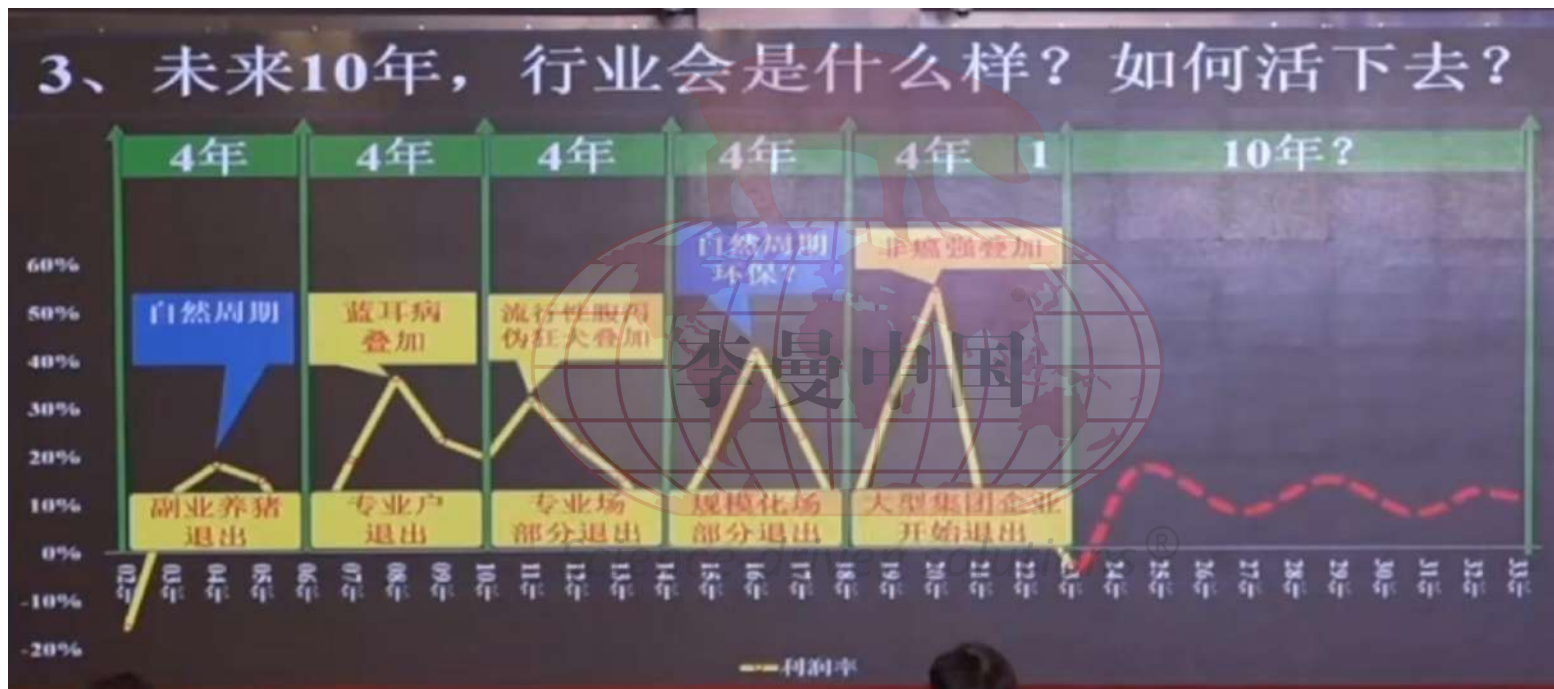
Request: Diversified dietary nutrition → a decrease in per capita pork consumption

7亿头肥猪? → 6亿头/5亿头?

700 million Finishing pigs? → 600/500 million Finishing pigs?

一、猪场兽医关注点 Focus points for veterinarians in pig farms

(一) 生猪价格与猪场效益 The price of live pigs and the efficiency of pig farms



秦英林，2024畜牧业高质量发展大会，北京，7.17-18

Qin Yinglin, 2024 Livestock High Quality Development Conference, Beijing, July 17-18

一、猪场兽医关注点 Focus points for veterinarians in pig farms

（一）生猪价格与猪场效益 The price of live pigs and the efficiency of pig farms

活动1: 全年固定价格, 各月均衡采购 牧原股份

范围	省份	6kg定价	全年定价 (6kg)	上下半年分别定价 (6kg)	
		24年9月- 25年2月	25年全年	25年1月- 25年6月	25年7月- 25年12月
大区 1	广东、广西、江西、湖北 山东、河南、河北、安徽 江苏、山西、陕西	370	400	470	370
大区 2	云南、贵州、四川、甘肃 黑龙江、吉林、辽宁 内蒙古		380	450	350

1、三元仔猪、蓝耳双阴仔猪在此基础上分别加20元/头;
2、定价周期合作完毕后, 双方对比牧原每周仔猪定价核算价格, 若核算后客户多付钱, 全额退还, 享保价服务, 实实在在享优惠!

9月10日, 2024生猪产业发展大会在河南南阳牧原集团总部

On September 10th, 2024, the Pig Industry Development Conference was held at the headquarters of Muyuan Group in Nanyang City of Henan Province

一、猪场兽医关注点 Focus points for veterinarians in pig farms

（二）降本增效大形势下兽医关注点 Focus on veterinary medicine under the situation of cost reduction and efficiency improvement

- 1. 防非： 降本增效的前提条件（猪场生存）
1. **Prevention ASF: A prerequisite for reducing costs and increasing efficiency (pig farm survival)**
- 2. 重要疫病的死亡率和发病率 降本增效的基础条件（多生少死）
2. **Mortality and incidence rate of important epidemic diseases: Basic conditions for cost reduction and efficiency increase (More lives, less deaths)**
- 3. 症状轻微但影响经济性能的疾病 降本增效的关键条件（生长速度、料肉比）
3. **Diseases with mild symptoms but affecting economic performance: Key conditions for cost reduction and efficiency improvement (Growth rate, Feed conversion rate)**

Science-driven solutions®

一、猪场兽医关注点 Focus points for veterinarians in pig farms

（三）症状轻微但影响经济性能的疾病

Diseases with mild symptoms but affecting economic performance

1. 引起母猪繁殖障碍的疾病

蓝耳病、圆环病毒病、细小

1. Diseases that cause reproductive disorders in sows, such as PRRS, circovirus disease, and parvovirus

2. 引起断奶仔猪消瘦和成活率的疾病

圆环病毒病、蓝耳病

2. Diseases causing weight loss and survival rate in weaned piglets, such as circovirus disease and PRRS

3. 引起育肥猪生长缓慢的疾病

圆环病毒病、伪狂犬病、支原体病

3. Diseases that cause slow growth in fattening pigs, such as circovirus disease, pseudorabies, and mycoplasma disease

2.Epidemic situation of porcine circovirus disease

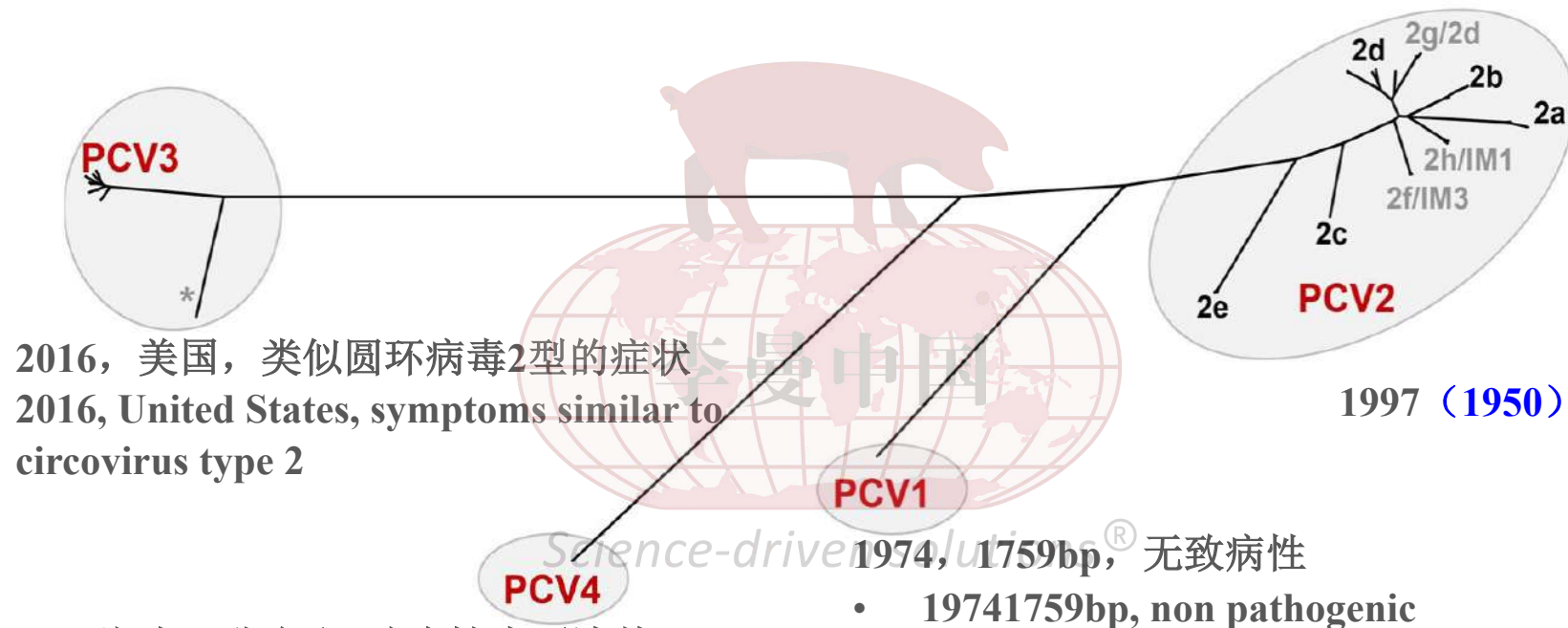
(1) PCV2 poses a threat to pigs throughout their lives, from Zhang Jun, CEVA



二、猪圆环病毒病流行情况

2. Epidemic situation of porcine circovirus disease

(一) 病原



2019, 湖南, 分布和 致病性尚不清楚

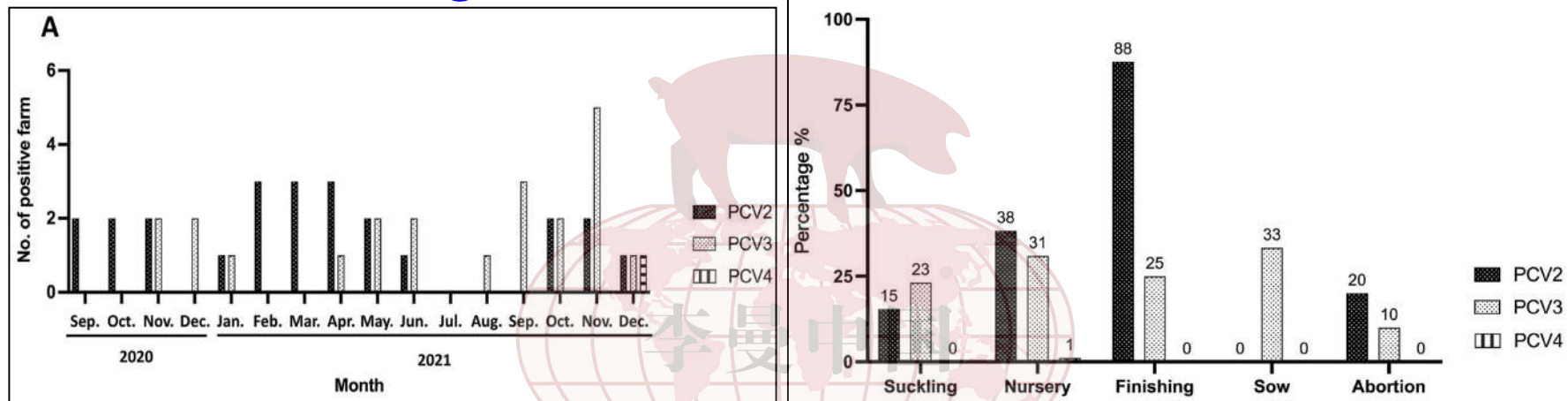
2019, Hunan, distribution and pathogenicity are still unclear

Tanja. Opriessnig, et al. Virus Research 286 (2020) 198044

二、猪圆环病毒病流行情况

2.Epidemic situation of porcine circovirus disease

(一) 病原 Pathogen



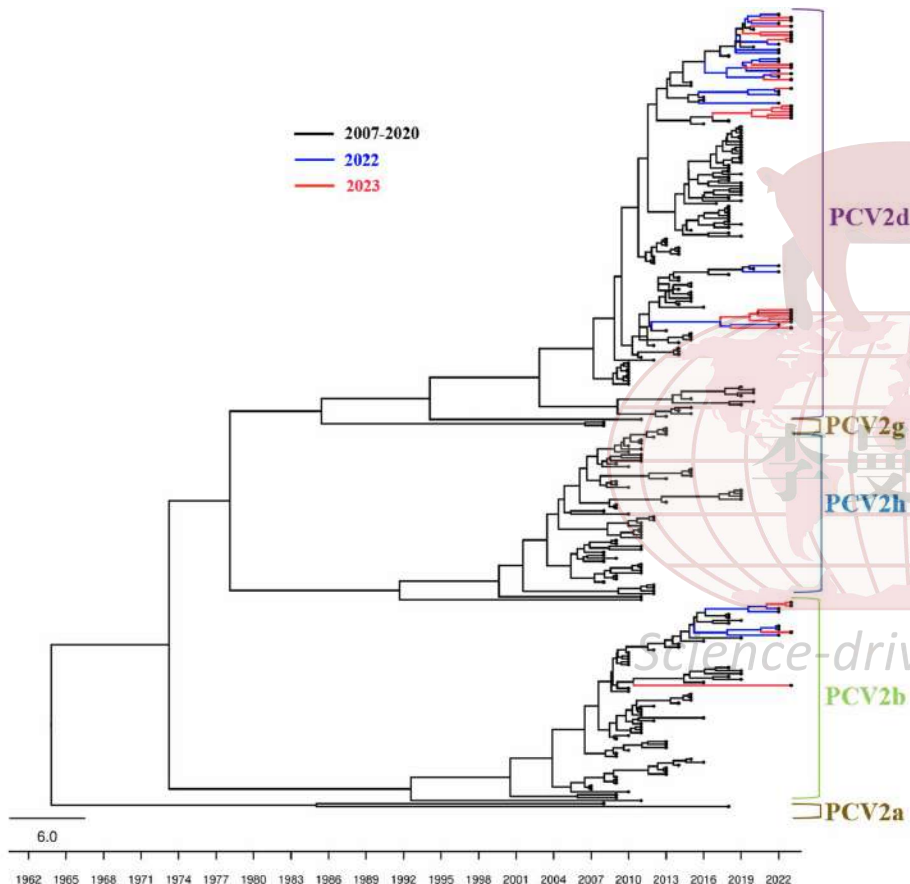
从2020年9月到2021年12月，共收集了46例临床病例的128个样本。PCV2、PCV3和PCV4的病例检出率分别为54.3%、43.5%和2.2%。

A total of 128 samples from 46 clinical cases of pigs were collected from September 2020 to December 2021. The case detection rates were 54.3 % for PCV2, 43.5 % for PCV3, and 2.2 % for PCV4.

Y.F. Hung et al. Molecular detection of emerging porcine circovirus in [Taiwan](#),
Heliyon. 2024 Aug 6; 10(15):e35579

二、猪圆环病毒病流行情况

2. Epidemic situation of porcine circovirus disease



在2022年6月至2023年3月收集的264个样本中，95个样本通过PCR检测为PCV2阳性（35.98%）。PCV2全基因组分析显示，2022年至2023年间收集的47株越南PCV2毒株分为两种主要基因型PCV2b和PCV2d，分别占比19.15%（9/47）和80.85%（38/47）。

Among 264 samples collected from June 2022 to March 2023, 95 samples tested positive for PCV2 (35.98%) by PCR. Analysis of the PCV2 genome revealed that 47 Vietnamese PCV2 strains collected between 2022 and 2023 fell into two main genotypes PCV2b and PCV2d, accounting for 19.15% (9/47) and 80.85% (38/47).

Danh Cong Lai. et al. Molecular evolution and genotype shift of Porcine circoviruses type 2 in Vietnam. Veterinary Research Communication.

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