EDITOR

Jagdev M. Sharma College of Veterinary Medicine University of Minnesota St. Paul, Minnesota 55108

BUSINESS MANAGER

Charles L. Hofacre University of Georgia 953 College Station Road Athens, Georgia 30602-4875

EDITORIAL BOARD

A. J. Bermudez C. J. Cardona H. D. Chapman R. P. Chin S. Davison A. M. Fadly S. D. Fitzgerald O. J. Fletcher R. K. Gast J. S. Guy K. Hiett F. J. Hoerr D. J. Jackwood M. W. Jackwood D. R. Kapczynski D. J. King S. H. Kleven M. Lee H. S. Lillehoj J. Maurer L. R. McDougald T. Morishita L. Nolan M. S. Parcells S. Rautenschlein S. Reddy D. L. Reynolds Y. M. Saif K. A. Schat B. Seal H. L. Shivaprasad R. F. Silva R. Singer E. Spackman D. L. Suarez D. E. Swayne P. S. Wakenell E. Wallner-Pendleton P. Wigley P. R. Woolcock C.C.Wu

Avian Diseases

An international journal dedicated to avian health

Published Quarterly by The American Association of Avian Pathologists



Vol. 49 No. 4

December 2005

Pages 455-634

Copyright 2005 by the American Association of Avian Pathologists, Inc.

^Ivian Diseases

Vol. 49, No. 4

December 2005

Table of Contents

Obituary—	
Martin Sevoian, V.M.D.	455
2005 AAAP Awards	456
Invited Minireview—	
Blackhead Disease (Histomoniasis) in Poultry: A Critical Review. L. R. MCDOUGALD	462
Regular Articles—	
Commercial Immunoassay Kits for the Detection of Influenza Virus Type A: Evaluation of Their Use with Poultry. PETER R. WOOLCOCK AND CAROL J. CARDONA	477
Oral Infection with Chicken Anemia Virus in 4-Wk Broiler Breeders: Lack of Effect of Major Histocompatibility B Complex Genotype. K. S. JOINER, S. J. EWALD, F. J. HOERR, V. L. VAN SANTEN, AND H. TORO	482
Detection of Antibodies to the Nonstructural Protein (NS1) of Avian Influenza Viruses Allows Distinction Between Vaccinated and Infected Chickens. SITING ZHAO, MEILIN JIN, HONGCHAO LI, YADI TAN, GUIHUA WANG, RUIHUA ZHANG, AND HUANCHUN CHEN	488
Molecular Characterization of Avian Infectious Bronchitis Virus Strains Isolated in Colombia During 2003. I. R. ALVARADO, P. VILLEGAS, N. MOSSOS, AND M. W. JACKWOOD	494
Genotyping of Infectious Bursal Disease Virus Strains by Restriction Fragment Length Polymorphism Analysis of the VP1, VP2, and VP3 Genes. A. D. GOMES, J. T. ABREU, R. A. F. REDONDO, N. R. S. MARTINS, J. S. RESENDE, AND M. RESENDE	500
<i>Mycoplasma gallisepticum</i> Hemagglutinin VlhA, Pyruvate Dehydrogenase PdhA, Lactate Dehydrogenase, and Elongation Factor Tu Share Epitopes with <i>Mycoplasma imitans</i> Homologues. MIHA LAVRIČ, DUŠAN BENČINA, AND MOJCA NARAT	507
Molecular Characterization of the Capsid Gene of Two Serotypes of Turkey Astroviruses. Y. TANG, M. V. MURGIA, AND Y. M. SAIF	514
Emergence of a Virulent Type C Avian Metapneumovirus in Turkeys in Minnesota. BINU T. VELAYUDHAN, BRIAN MCCOMB, RICHARD S. BENNETT, VANESSA C. LOPES, DANIEL SHAW, DAVID A. HALVORSON, AND KAKAMBI V. NAGARAJA	520

Photo on the cover

Dr. Erwin L. Jungherr, 1897–1965. Dr. Jungherr was a distinguished veterinary pathologist and teacher who elucidated the pathology of a number of avian diseases and published extensively. Born in Austria, he received his veterinary degree in Vienna and in 1923 came to the United States where he served on the faculty of the University of Connecticut for 35 years before joining Lederle Laboratories in 1959. He was a charter member of the American Association of Avian Pathologists. His treatise on neuroanatomy of the domestic fowl was published posthumously in 1969 as a special issue of *Avian Diseases*. He was a member of the editorial board of the journal starting with its inaugural issue. (Photo courtesy of the University of Connecticut).