EDITOR

Jagdev M. Sharma The Biodesign Institute Arizona State University Tempe, Arizona 85287-5401

BUSINESS MANAGER

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

EDITORIAL BOARD

A. Banda

A. J. Bermudez

H. D. Chapman

R. P. Chin

S. Davison

J. M. Day

A. M. Fadly

S. D. Fitzgerald

O. J. Fletcher

R. K. Gast

L Gimeno

P. Gibbs

J. S. Guy

F. J. Hoerr

D. J. Jackwood

M. W. Jackwood

T. Johnson

D. R. Kapczynski

S. H. Kleven

C. W. Lee

M. Lee

H. S. Lillehoj

B. Lupiani

L. R. McDougald

L. Nolan

A. Nootmohammadi

M. Pantin-Jackwood

M. S. Parcells

5. Rautenschlein

S. Reddy

D. L. Reynolds

Y. M. Saif

K. A. Schat

H. Sellers

H. L. Shivaprasad

R. F. Silva

R. Singer

E. Spackman

D. L. Suarez

D. E. Swayne

H. Toro

V. van Santen

P. S. Wakenell

P. Wigley

P. R. Woolcock

C. C. Wu

Q. Zhang

Avian Diseases

An international journal dedicated to avian health

Published Quarterly by the American Association of Avian Pathologists



Vol. 54 No. 3

September 2010

Pages 975-1126

Copyright 2010 by the American Association of Avian Pathologists, Inc.

Avian Diseases

Vol. 54, No. 3 September 2010

Table of Contents

Regular Articles—

High Incidence of Glomerulonephritis Associated with Inclusion Body Hepatitis in Broiler Chickens: Routine Histopathology and Histomorphometric Studies. FLOYD D. WILSON, ROBERT W. WILLS, CARLOS GABRIEL SENTIES-CUE, WILLIAM R. MASLIN, PHILIP A. STAYER, AND DANNY L. MAGEE	975
Forensic Investigation of a 1986 Outbreak of Osteopetrosis in Commercial Brown Layers Reveals a Novel Avian Leukosis Virus–Related Genome. Taylor Barbosa, Marcia Ramirez, Scott Hafner, Sunny Cheng, and Guillermo Zavala	981
Detection of Avian Nephritis Virus in Australian Chicken Flocks. Kylie A. Hewson, Denise O'Rourke, and Amir H. Noormohammadi	990
Ornithobacterium rhinotracheale North American Field Isolates Express a Hemolysin-Like Protein. Louisa B. Tabatabai, Mandy K. Zimmerli, Emilie S. Zehr, R. E. Briggs, and Fred M. Tatum	994
Comparison of <i>Eimeria</i> Species Distribution and Salinomycin Resistance in Commercial Broiler Operations Utilizing Different Coccidiosis Control Strategies. M. Jenkins, S. Klopp, D. Ritter, K. Miska, and R. Fetterer	1002
Survey of Biosecurity Protocols and Practices Adopted by Growers on Commercial Poultry Farms in Georgia, U. S. A. F. C. Dorea, R. Berghaus, C. Hofacre, and D. J. Cole	1007
Selected Blood Chemistry and Gas Reference Ranges for Broiler Breeders Using the i-STAT® Handheld Clinical Analyzer. Michael P. Martin, Michael Wineland, and H. John Barnes	1016
Detection of DNA of <i>Histomonas meleagridis</i> and <i>Tetratrichomonas gallinarum</i> in German Poultry Flocks Between 2004 and 2008. Rüdiger Hauck, Stefanie Balczulat, and Hafez M. Hafez	1021
Retrospective Study of Myocarditis Associated with Reovirus in Turkeys. M. França, R. Crespo, R. Chin, P. Woolcock, and H. L. Shivaprasad	1026
Unusual Biphasic Disease in Domestic Pigeons (<i>Columba livia f. domestica</i>) Following Experimental Infection with Sarcocystis calchasi. P. Olias, A. D. Gruber, A. O. Heydorn, A. Kohls, H. M. Hafez, and M. Lierz	1032
The Effect of the Time Interval Between Exposures on the Susceptibility of Chickens to Superinfection with Marek's Disease Virus. John R. Dunn, Richard L. Witter, Robert F. Silva, Lucy F. Lee, James Finlay, Bryan A. Marker, John B. Kaneene, Richard M. Fulton, and Scott D. Fitzgerald	1038
Pathogenesis of Two Strains of Avian Paramyxovirus Serotype 2, Yucaipa and Bangor, in Chickens and Turkeys. MADDIUBI SUBBIAN SA YIAO SUNII K. KHATERAR FLAMA MULTING DIAS PETER J. COMMIS AND SURA K. SAMA	1050

About the cover

Featured on the cover is Dr. Glenn Snoeyenbos. He had a long and distinguished career as poultry disease diagnostician, educator, and scientist at the University of Massachusetts and, among many research contributions, he was internationally acclaimed for his research on competitive exclusion of Salmonella and other pathogenic bacteria in newly-hatched chicks. He was very active in the early years of the American Association of Avian Pathologists serving as the organization's second secretary/treasurer (1961–1970) and president (1971–1973). He also represented avian disease interests very capably in other organizations including the American Association of Veterinary Laboratory Diagnosticians (AAVLD) and the United States Animal Health Association. He was the recipient of the AAAP Special Service Award (1982) and the AAVLD E. P. Pope Award (1987). (Photo provided by the History Committee of the AAAP.)