# 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

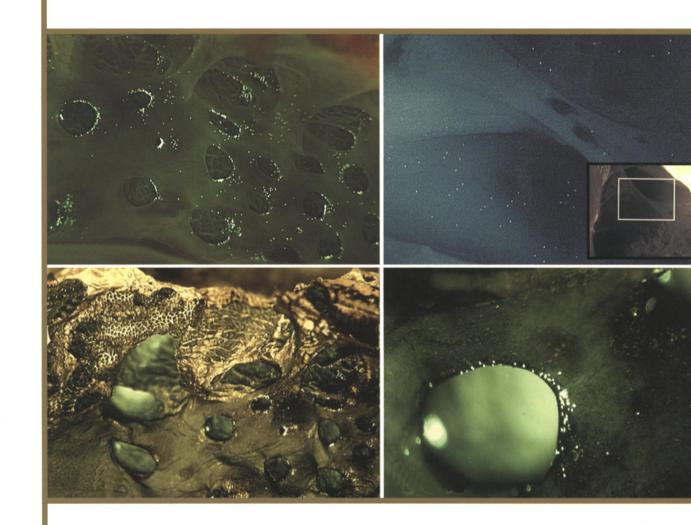
A. J. Bermudez C. J. Cardona H. D. Chapman R. P. Chin S. Davison A. M. Fadly S. D. Fitzgerald O. J. Fletcher R. K. Gast J. S. Guy K. Hiett F. J. Hoerr D. J. Jackwood M. W. Jackwood D. R. Kapczynski D. J. King S. H. Kleven M. Lee H. S. Lillehoi J. Maurer L. R. McDougald T. Morishita L. Nolan M. S. Parcells 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

# 50th Anniversary

# Published Quarterly by The American Association of Avian Pathologists



Vol. 50 No. 2

June 2006

Pages 161-314

Copyright 2006 by the American Association of Avian Pathologists, Inc.

4vian Diseases Vol. 50, No. 2 June 2006

Table of Contents

#### Invited Minireview—

Potential Impacts of Antibiotic Use in Poultry Production. RANDALL S. SINGER AND CHARLES L. HOFACRE	161
Regular Articles—	
Relationship Between Marek's Disease and the Time Course of Viral Genome Proliferation in Feather Tips. Urs KUHNLEIN, J. LLOYD SPENCER, MARIA CHAN, DANA PRASLICKOVA, KATJA LINHER, AL KULENKAMP, AND GEORGE ANSAH	173
Infectious Bursal Disease Virus-Induced Immunosuppression Exacerbates Campylobacter jejuni Colonization and Shedding in Chickens. KATHRYN A. SUBLER, CLAUDIA SILVA MICKAEL, AND DARAL J. JACKWOOD	179
Preliminary Evaluation of the Use of the <i>sefA</i> Fimbrial Gene to Elicit Immune Response Against <i>Salmonella enterica</i> Serotype Enteritidis in Chickens. VANESSA C. LOPES, BINU T. VELAYUDHAN, DAVID A. HALVORSON, AND KAKAMBI V. NAGARAJA	185
Reduced Serologic Response to Newcastle Disease Virus in Broiler Chickens Exposed to a Chinese Field Strain of Subgroup J Avian Leukosis Virus. ZHIZHONG CUI, SHUHONG SUN, AND JIANXIN WANG	191
A Comparison Survey of Organic and Conventional Broiler Chickens for Infectious Agents Affecting Health and Food Safety. I. VAN OVERBEKE, L. DUCHATEAU, L. DE ZUTTER, G. ALBERS, AND R. DUCATELLE	196
Sarcomas and Myelocytomas Induced by a Retrovirus Related to Myeloblastosis-Associated Virus Type 1 in White Leghorn Egg Layer Chickens. Guillermo Zavala, Benjamin Lucio-Martinez, Sunny Cheng, and Taylor Barbosa	201
Detection and Characterization of Avian Leukosis Virus in Marek's Disease Vaccines. GUILLERMO ZAVALA AND SUNNY	209

# Avian Diseases Initiates Ahead of Print Publishing

Under this system, all papers will be available on the *Avian Diseases* website (www.aaap.info) as soon as they are accepted for publication-weeks or months before they appear in the journal and before they have been copyedited or typeset. Ahead of Print papers will be integrated into the journal website's search engine and will be as accessible as the printed articles. Abstracts for the Ahead of Print papers will be available to everyone; while full-length text will be available (in PDF format) only to subscribers. After final publication, the Ahead of Print versions of the papers will be removed from the active list.

We hope this new feature will benefit the readers by allowing rapid access to new research results. The authors should benefit by delivering their message without undue delay and receive credit in a timely manner for their contributions. Editor

# About the cover

Dr. Lisa A. Tell and coworkers used a stereoscopic microscope to examine the deposition of fluorescent microspheres in the respiratory tract of pigeons following aerosolization. Microspheres, appearing as small, bright dots, were localized around the bronchi (top left figure) and in the thoracic air sac (top right figure). The figures in the lower panel are images of sagittal sections of gold-sputtered intrapulmonary primary and secondary bronchi. Dr. Tell's article begins on page 238.