

Monday July 20

Keynote Symposium

Tomorrow's Poultry: Genomics, Physiology, and Well-Being

Co-Chairs: **G. R. Huff, USDA/ARS and S. E. Aggrey, University of Georgia**

Room 301 A-B

8:00 AM

Welcome and introduction.

G. R. Huff*, *USDA/ARS, Fayetteville, AR.*

Session 1. The Arguments

8:05 AM

Arguments for changing the animal: Breeding of tomorrow's chickens to improve well-being.

H. W. Cheng*, *USDA/ARS, West Lafayette, IN.*

8:25 AM

Arguments for changing production practices: Why using genetics to address animal welfare may not be a good idea.

P. B. Thompson*, *Michigan State University, E. Lansing, MI.*

Session 2. Industry Viewpoint: How can we integrate the best science from both of these welfare arguments and still stay in business?

8:45 AM

Balancing act of welfare needs of broilers and productivity.

M. N. Katanbaf*, *Cobb-Vantress, Inc., Monticello, KY.*

9:00 AM

Genomics, physiology, and well-being: layer industry breeder's perspective.

N. P. O'Sullivan*, *Hy-Line International, Dallas Center, IA.*

9:15 AM

Profitable turkey production and animal welfare are not mutually exclusive and can be selected for simultaneously.

B. J. Wood*, *Hybrid Turkeys, Kitchener, Ontario, Canada.*

9:30 AM

Animal welfare and the future of poultry genetics.

S. Avendano*¹ and D. A. Emmerson², *Aviagen, LTD, ¹Edinburgh, UK and ²Huntsville, AL.*

9:45 AM

Break.

Session 3. The Solutions

10:15 AM

The European experience in poultry welfare: A decade ahead.

C. Beaumont*, S. Mignon-Grasteau, and C. Leterrier, [Institut National de la Recherche Agronomique \(INRA\)](#), Tours, France.

10:35AM

Molecular neuroendocrine events during stress in poultry.

W. J. Kuenzel* and A. Jurkevic, *University of Arkansas, Fayetteville, AR.*

10:55AM

Understanding stress-induced immunosuppression: exploration of cytokine and chemokine gene profiles in chicken peripheral leukocytes.

S. Shini*¹, G. R. Huff², and P. Kaiser³, ¹*The University of Queensland, Brisbane, Australia*, ²*USDA/ ARS, Fayetteville, AR*, ³*Institute for Animal Health, Compton, Berkshire, UK.*

11:15AM

Genetics and genomic approaches to address both breeding and management issues of poultry well-being.

W. H. Muir* and T. Nguyen, *Purdue University, W. Lafayette, IN.*

11:35 PM

Modification of animals vs. modification of the production environment to meet welfare needs: Summary, discussion, and concluding remarks.

S. E. Aggrey*, *University of Georgia, Athens, GA.*