

BIOTECHNOLOGY – IMPACT ON AVIAN HEALTH

AAAP 50th Anniversary Symposium – July 15, 2007

The contributions of biotechnology to avian health have been substantial, especially in the areas of diagnostics and vaccine development. The goal of this symposium is to summarize and demonstrate the uses of current technology, acknowledge some of the challenges, and to suggest its future potential.

8:00 – 8:05 Welcome

Diagnostics

8:05 – 8:20 Overview – How has biotechnology advanced in 15 years, what are some of the challenges, and what does the future hold – **Daral Jackwood**

8:20 – 8:50 Biotechnology and its impact on the diagnostic laboratory – **Fred Hoerr**

8:50 – 9:20 Sequencing and its diagnostic uses – **Ching Ching Wu**

9:20 – 9:50 Current and future applications of quantitative PCR – **Mark Jackwood**

9:50 – 10:10 Break

10:10 – 10:40 Real-time quantitative PCR and AI – **Erica Spackman**

10:40 – 11:00 Microarrays and future diagnostic applications – **Calvin Keeler**

Vaccines

11:00 – 11:15 Overview of developments in the last 15 years in recombinant vaccines – **Bob Silva**

11:15 – 11:45 Recombinant vaccines – challenges, successes, and current products – **Ruud Hein**

11:45 – 12:45 Lunch

12:45 – 1:15 BACs and Marek's vaccine developments – **Klaus Osterrieder**

1:15 – 1:45 The promise of reverse genetics – **Egbert Mundt**

1:45 – 2:15 Concept to product – challenges associated with patenting, licensing, and marketing recombinant products – **David Shapiro**

2:15 – 2:45 Future vaccine developments – RNAi/Immunomodulators – **David Suarez**

2:45 – 3:00 Speaker panel

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