

RESEARCH FOR THE 21ST CENTURY HORSE INDUSTRY:
FROM GENOMICS TO THE WINNING POST

Australasian
Equine Science
Symposium



SYMPOSIUM DATES

Paper submission: Friday 9 April 2010

Symposium: Thursday 3 June to Saturday 5 June 2010

Website: www.australianequinescience.com.au

VENUE: GOLD COAST INTERNATIONAL HOTEL, SURFERS PARADISE

Thursday 3 June to Saturday 5 June, 2010

Welcome

It is a great pleasure to invite you to the 3rd Australasian Equine Science Symposium: 'Equine Science 2010'.

The theme of the Symposium is "Research for the 21st Century Horse Industry: From Genomics To The Winning Post"

The Symposium will provide an opportunity for all those involved in research and technology transfer to meet and discuss their science.

It is hoped that the Symposium will become a regular event for equine scientists which:

- Promotes excellence in equine science
- Focuses on science, technology and innovation relevant to the Australian horse industry
- Provides a regular forum for exchange of research finding, ideas and information between local and international equine scientists
- Assists young equine scientists with their careers
- Encourages participation from interested horse industry people

Professor W L Bryden
Chair, Symposium Committee
Phone: 0413 808 830
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Or visit the website:
www.australianequinescience.com

TIMING

Equine Science 2010 will open with registration and morning tea at 10:00am on June 3. The Symposium proceedings will commence at 11:00am, and conclude mid-afternoon on Saturday, June 5.

The formal Symposium dinner is on Thursday evening, June 3. Friday evening, June 4 will be a free evening for delegates.

The Symposium will coincide with the Magic Millions Weanling and Broodmare sale.

Venue and Accommodation

The Symposium will be held in the Gold Coast International Hotel, Surfers Paradise. Delegates must book their own accommodation.

Special rates are available for Symposium delegates. These special rates are also available for delegates wishing to extend their stay post the Symposium.

Call the Gold Coast International Hotel, quoting the Equine Symposium, direct on: 07 5584 1200. A booking form is also attached to the Registration form.

REGISTRATION

The Symposium Co-ordinators are:
The PR Exchange Pty Ltd.
PO Box 27, Foster, Vic 3960
Ph: 03 5684 1582
Fax: 03 5684 1065
Email: prex@pacific.net.au

To register complete a Registration form and submit via Mail, Fax or Email. Contact Symposium co-ordinators, or visit www.australianequinescience.com to download a registration form.

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PROGRAM

There will be papers on genomics, nutrition, reproduction, musculoskeletal injury, disease and education.

The program will include speakers from North America and the United Kingdom.

The final program, including submitted papers, will be sent to all participants by May 10.

Guidelines for Authors

Format

All papers should be submitted as a one-page (A4) abstract, including tables and graphs (see attached sample).

Layout Specifications

Title:	12 point bold capitals
Authors names:	12 point capitals & italics
Affiliations:	10 point
Text of abstract:	12 point
Top Margin:	0.79"
Bottom Margin:	0.79"
Left Margin:	0.98"
Right Margin:	0.98"
Title, authors' names and addresses:	Left Aligned
Presenter's Name:	Underlined
Body of Abstracts:	Right and left justified

Editing

The paper will be checked but not edited by the organising committee; therefore all editing should be completed by the author prior to submission. Papers that do not meet the guidelines will not be accepted.

Submission

Papers can be emailed as an attachment to w.bryden@uq.edu.au

Proceedings

Copies of all papers will be available at the Symposium. Full papers may be published in *Animal Production Science*

Presentations

It is the aim of the Symposium is to allow all persons who submit a paper the opportunity to present their work. Depending on the number of presentations it may be necessary to present some papers as posters.

For further information on presentations contact:

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SPONSORSHIP OPPORTUNITIES

Sponsorship opportunities are available for the 2010 Australasian Equine Science Symposium. The Symposium offers an excellent opportunity to organizations wishing to showcase their products and technology, as well as network with others involved in the equine industry. Please contact Symposium Co-ordinators for a Sponsorship Package: The PR Exchange Pty Ltd. Ph: +6 3 56841582 or email: suedavies@pacific.net.au

(layout sample)

BODY WEIGHT AND GROWTH RATES IN AUSTRALIAN THOROUGHBREDS COMPARED WITH THOROUGHBREDS IN KENTUCKY, ENGLAND, NEW ZEALAND AND INDIA

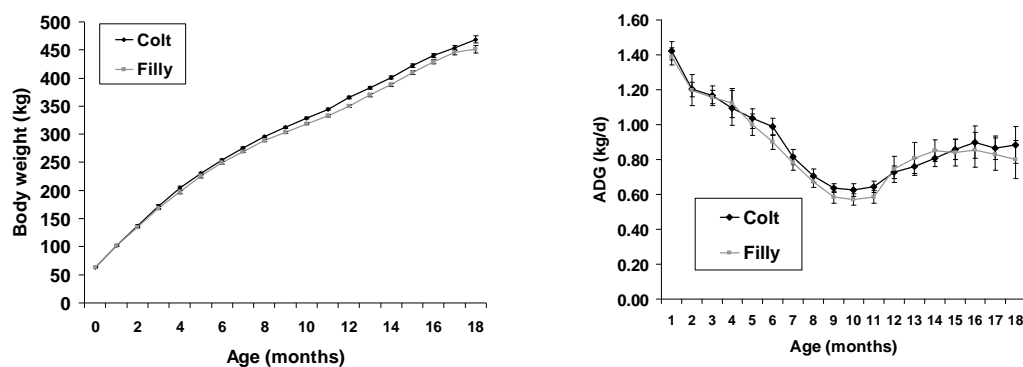
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Past studies on the growth of Thoroughbreds have been limited to small populations located primarily in the northern hemisphere. There are much less data available on southern hemisphere populations and no published Australian growth curve. Furthermore, there has been no detailed comparison made between the growth patterns of Thoroughbreds in different countries. Growth characteristics including body weight, height and average daily gain (ADG) were measured between birth and 18 months of age in Thoroughbred horses born and raised on commercial stud farms in Australia (n=2653), New Zealand (n=925), Kentucky (n=6783), England (n=1233) and India (n=939) during the years 1996 to 2005.

Figures 1 and 2. Mean body weight and ADG (\pm 95% confidence intervals) of Australian colts and fillies



There was no difference in body weight or wither height between Australian colts and fillies between birth and 5 months of age ($p > 0.05$) however, colts were heavier and taller than fillies from 6 to 18 months of age ($p < 0.05$) (Figure 1). There was no difference in ADG between Australian colts and fillies throughout the study (Figure 2). Australian and Kentucky Thoroughbreds were heavier at 7 days of age than those born in New Zealand, England, and India ($p < 0.05$). Indian Thoroughbreds were significantly lighter than all Thoroughbred populations throughout the study ($P < 0.05$) (Table 1).

Table 1. Mean body weight of Thoroughbreds separated by country (\pm 95% confidence interval). Differing superscripts within columns indicate significant differences ($p < 0.05$) (Tukey-Kramer test).

	7 days	1 month	6 months	12 months	18 months
Kentucky	64.39 \pm 0.61 ^a	100.20 \pm 0.65 ^a	250.87 \pm 0.94 ^a	353.79 \pm 1.38 ^a	453.66 \pm 2.46 ^a
Australia	63.55 \pm 0.67 ^{ab}	101.80 \pm 0.94 ^a	251.40 \pm 1.57 ^a	357.42 \pm 1.64 ^a	456.34 \pm 4.63 ^a
New Zealand	60.68 \pm 1.48 ^b	103.74 \pm 2.99 ^a	248.43 \pm 2.10 ^a	356.86 \pm 3.34 ^a	458.81 \pm 4.52 ^a
England	58.13 \pm 1.03 ^c	95.87 \pm 1.93 ^b	251.49 \pm 3.00 ^a	353.78 \pm 3.91 ^a	450.49 \pm 8.67 ^a
India	55.46 \pm 0.60 ^d	90.54 \pm 0.90 ^c	224.68 \pm 1.26 ^b	325.95 \pm 1.75 ^b	408.47 \pm 2.29 ^b

Body weight did not differ between Australian, New Zealand, and Kentucky Thoroughbreds between 1 month and 18 months ($p > 0.05$) however, Australian and New Zealand Thoroughbreds tended to be heavier than the other populations between 12 and 18 months. This is most likely a reflection of differences in management of yearlings prepared for sale.