

The 2010 STAMFORD RAFFLES lecture

AT THE ZOOLOGICAL SOCIETY OF LONDON

Tuesday 15 June 2010 at 6.15pm for 6.30pm | Tickets £20 each, £15 ZSL Members and students

Professor Linda Partridge

THE NEW BIOLOGY OF AGEING

Research into ageing has been rejuvenated by the discovery of mutations in single genes that extend the lifespan of laboratory animals. Furthermore, at least some of the signalling pathways involved, particularly the insulin/Igf-like pathway, have effects on lifespan that are conserved over the large evolutionary distances between nematode worms, fruit flies and mice. An environmental intervention, dietary restriction, also prolongs life in diverse organisms. In all cases there is a prolongation of healthy lifespan, with a broad-spectrum improvement in function during middle and old age, together with delay or amelioration of a range of ageing-related diseases. These findings have led to an intensive wave of research directed at understanding the mechanisms at work.

This lecture will be preceded by the ZSL Scientific Awards presentation ceremony.



Professor Linda Partridge has used the model organism *Drosophila melanogaster* to investigate the evolution of a wide variety of physiological traits involved in adaptation. Her research is directed towards understanding fitness-related traits, particularly ageing and body size, and has brought new insights into how traits influence organisms throughout their lifespans. Linda Partridge holds the Weldon Chair of Biometry and is Director of the UCL Institute of Healthy Ageing. She is also the Founding Director of the Max Planck Institute for Biology of Ageing in Cologne. She is the recipient of many awards, most recently the Darwin Medal from the Linnean Society, and was

awarded a DBE for services to science. Her current research focuses on physiological mechanisms that force organisms to make trade-offs, such as that between high nutrient intake and high reproductive rate, on the one hand, and slow ageing on the other.



LIVING CONSERVATION

**Professor Linda Partridge, Director of the UCL Institute of Healthy Ageing
THE NEW BIOLOGY OF AGEING**

Tuesday 15 June 2010 at 6.15pm for 6.30pm in the Meeting Rooms,
Zoological Society of London, Regent's Park (Outer Circle), London NW1 4RY, UK.

Places are limited and must be booked by Friday 11 June. A canapé reception will follow the lecture. For availability or further information please contact Joy Hayward:

Tel: 020 7449 6227 **E-mail:** joy.hayward@zsl.org

Web: www.zsl.org/science/scientific-meetings

2010 Stamford Raffles lecture & reception booking form

Please complete and return with payment to:

Joy Hayward, Scientific Meetings Coordinator, ZSL, Regent's Park, London NW1 4RY.

I would like to book the following places at the Stamford Raffles Lecture and Reception:

..... at the full rate of £20 per person; and/or

..... at the ZSL Member / student rate of £15 per person

(please provide your ZSL membership number (.....) or copy of your student card to confirm eligibility)

Your details

Name: (as you would like it to appear on your badge; please complete for each attendee)

.....

Email: **Tel:**

Mailing address (billing address should be provided for card payments)

.....

.....

Payment details

Cheque I enclose a **cheque** for £..... payable to the **Zoological Society of London**.

Card please complete all details below and return by fax or by post:

Please debit my Visa / MasterCard (delete as appropriate)

Amount £.....

Card Number / / /

Expiry Date / Card security code (last three digits printed on or just beneath card signature strip)

Name on Card (capital letters please)

Signature of Card Holder.....

Cancellations must be received in writing five working days prior to the lecture and will be refunded less a £5.00 processing charge. We regret that no refunds will be possible for places cancelled after 11 June 2010. Substitutions may be made at any time without charge; please notify Joy Hayward of any change in attendee details.