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Essays in Biochemistry (<http://essays.biochemistry.org>; ISSN 0071-1365; eISSN 1744-1358) is published by Portland Press Limited on behalf of the Biochemical Society. The journal publishes reviews from experts in the field highlighting recent hot topics in biochemistry, written to be accessible for those not yet immersed in the subject. Each issue of the journal is guest edited by a key opinion leader in the area of research, and is an up-to-date, self-contained summary of the topic.

ISBN (Volume 61 Issue 3): 978-1-85578-207-5

**Abstracted by/Indexed in**

PubMed, Medline and Science Citation Index.

**Contact Information**

Publishing Office: Portland Press, Charles Darwin House,  
12 Roger Street, London WC1N 2JU, UK

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**Postmaster Address corrections to** Essays in Biochemistry, c/o Air Business Ltd, c/o Worldnet Shipping Inc., 156-15, 146th Avenue, 2nd Floor, Jamaica, NY 11434, USA

**Periodicals** Postage paid at Jamaica, NY 11431

**Electronic back archive**

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**About this issue**

This issue explores the molecular and cellular mechanisms which underpin the process of ageing. Guest Edited by Professor Tom Kirkwood, CBE and Dr Viktor Korolchuk of the Newcastle University Institute for Ageing and Health, the issue includes reviews on mechanisms involved in ageing include genome instability and redox stress as well as insights from systems biology and approaches for extending the human healthspan.

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