

Biochemical Journal

The Biochemical Society, London © 2005

Volume 385, part 1

1 January 2005

<http://www.BiochemJ.org>

Editorial Board

Chair

G. Banting • Bristol

Vice Chair, The Americas

G. Salvesen • La Jolla

Reviews Editor

J. D. Scott • Portland, OR

Deputy Chairs

R. A. J. Challiss • Leicester

S. V. Graham • Glasgow

S. Gutteridge • Newark, DE

D. Hoekstra • Groningen

N. M. Hooper • Leeds

J. P. Kehrer • Austin

C. MacKintosh • Dundee

K. H. Mayo • Minneapolis

H. M. Wallace • Aberdeen

M. P. Walsh • Calgary

Publisher

P. J. Starley

Production Editor

M. D. Cunningham

Senior Staff Editor

S. M. Hobday

Staff Editors

L. Ball

E. A. G. Elloway

L. Johnson

J. W. Mockridge

L. M. Petty

M. R. Thorne

Administrative Editor, US Office

S. Schendel

D. R. Alessi (Dundee)

G. J. Barritt (Adelaide)

J. L. Blank (Cambridge, MA)

M. Blatt (Glasgow)

P. G. Board (Canberra)

M. Bogoy (Stanford, CA)

L. Bosca (Madrid)

B. Brüne (Kaiserslautern)

D. Carling (London)

A. Clerk (London)

G. P. Côté (Kingston, Ont.)

J. R. Couchman (London)

D. A. Day (Sydney)

C. S. Duckett (Ann Arbor)

B. Engelmann (Munich)

R. M. Epand (Hamilton, Ont.)

D. A. Fell (Oxford)

R. Ferraris (Newark, NJ)

B. Foxwell (London)

J.-M. Frère (Liège)

A. Galione (Oxford)

P. G. W. Gettins (Chicago)

D. A. F. Gillespie (Glasgow)

S. Goodbourn (London)

P. A. Grimaldi (Nice)

B. Hallberg (Umeå)

P. I. Harris (Leicester)

L. Hedstrom (Waltham, MA)

F. G. Hegardt (Barcelona)

S. High (Manchester)

I. B. Holland (Orsay)

J. Hsuan (London)

S. Huber (Urbana, IL)

R. Kalluri (Boston)

B. Kalyanaraman (Milwaukee)

M. G. Kazanietz (Philadelphia)

I. M. Kovach (Washington D.C.)

P. W. Kuchel (Sydney)

R. Leduc (Sherbrooke)

E. R. Levin (Long Beach, CA)

L. Machesky (Birmingham)

R. Marais (London)

P. Maurel (Montpellier)

M. Meisterernst (Munich)

H. Mellor (Bristol)

I. Morgan (Glasgow)

W. Müller-Esterl (Frankfurt)

B. Mulloy (South Mimms)

A. W. Munro (Leicester)

M. P. Murphy (Cambridge)

L. M. Obeid (Charleston)

M. Parenti (Monza)

M. A. J. Parry (Harpندن)

S. Patel (London)

G. Pavitt (Manchester)

M. Paulsson (Cologne)

L. Persson (Lund)

A. D. Postle (Southampton)

N. J. Pyne (Glasgow)

D. R. Richardson (Sydney)

S. Roberts (Manchester)

N. J. P. Ryba (Bethesda)

J. R. Sayers (Sheffield)

S. C. Sealfon (New York)

P. R. Shepherd (Auckland)

A. Sim (Callaghan, NSW)

B. F. Sloane (Detroit)

C. W. Taylor (Cambridge)

M. Thumm (Goettingen)

M. A. Titheradge (Brighton)

A. B. Tobin (Leicester)

A. Toker (Boston)

S. A. Tooze (London)

M. Torti (Pavia)

C. Troy (New York)

D. M. F. van Aalten (Dundee)

B. Vanhaesebroeck (London)

S. G. Ward (Bath)

J. F. Woessner (Miami)

J. York (Durham, NC)

S. Yoshikawa (Ako-Hyogo)

C. Zurzolo (Paris)



- The *Biochemical Journal* (ISSN 0264-6021 for print/online journal; ISSN 1470-8728 for online only journal) is published and distributed by Portland Press Ltd on behalf of the Biochemical Society (the owner), and appears twice monthly.
- **Editorial and publishing offices:** *Biochemical Journal*, 59 Portland Place, London W1B 1QW, U.K.
- **Biochemical Journal**, c/o Mercury Airfreight International Ltd, 365 Blair Road, Avenel, NJ 07001, U.S.A.
- **Subscriptions department:** Portland Customer Services, P.O. Box 32, Commerce Way, Colchester CO2 8HP, U.K.
- All rights reserved. Apart from any fair dealing for the purposes of research or private study, or criticism or review, as permitted under the Copyright, Designs and Patents Act, 1988, this publication may be reproduced, stored or transmitted, in any forms or by any means, only with the prior permission in writing of the publishers, or in the case of reprographic reproduction in accordance with the terms of permissions granted by copyright clearing houses such as the Copyright Licensing Agency (U.K.) or the Copyright Clearance Center (U.S.A.). The CCC item-fee code for this publication is 0264-6021/2005/\$40.00 + 0.00. Inquiries concerning reproduction outside those terms should be sent to the publishers at the above-mentioned address.
- Although, at the time of going to press, the information contained in this publication is believed to be correct, neither the authors nor the editors nor the publisher assume any responsibility for any errors or omissions herein contained. Opinions expressed in articles are not necessarily those of the editors, the publisher or the owner.
- Periodicals postage paid at Rahway, NJ, U.S.A.
- **Postmaster:** send address corrections to *Biochemical Journal*, c/o Mercury Airfreight International Ltd, 365 Blair Road, Avenel, NJ 07001, U.S.A.
- **Cover illustration:** A T-lymphoblast transmigrating across an endothelial cell. Actin stress fibres in the endothelial cell and the outline of the T-lymphoblast stain red, and ICAM-1 on the apical surface of the endothelial cell stains green. Image kindly provided by Jaime Millán and Anne Ridley (the Ludwig Institute for Cancer Research, London, U.K.).

● **General policy** The *Biochemical Journal* publishes papers in English in all fields of biochemistry and cellular and molecular biology, provided that they make a sufficient contribution to biochemical knowledge. Papers may include new results obtained experimentally, descriptions of new experimental methods of biochemical importance, or new interpretations of existing results. Novel theoretical contributions will be considered equally with papers dealing with experimental work. All work presented should have as its aim the development of biochemical concepts rather than the mere recording of facts. Preliminary, confirmatory or inconclusive work will not be published. The *Biochemical Journal* will not publish material that has been wholly or largely published elsewhere, even as a preliminary communication or in refereed symposium proceedings or on the World Wide Web (WWW); equally, fragmentation of research into the 'least publishable unit' is discouraged.

Submission of a paper implies that it has been approved by all the named authors, that all persons entitled to authorship have been so named, that it reports unpublished work that is not under consideration elsewhere, and that if the paper is accepted for publication the authors will transfer to the Biochemical Society the copyright in the paper, which will then not be published elsewhere in the same form, in any language, without the consent of the Society. Authors will be required to sign an undertaking to these effects.

Authors may suggest potential reviewers for their papers, but the journal is under no obligation to follow such suggestions. Authors may also specify the names of those they wish to be excluded from the review process, and such wishes are usually respected unless, in the opinion of the journal, such a request unreasonably excludes all the expertise available to it in that scientific area.

To allow the reviewers to assess possible overlap with previous work, all submitted papers must be accompanied by duplicate copies of the author's relevant published work, including that on the WWW, and of all related papers in press or under editorial consideration in this or other journals.

The following types of paper are included in the journal.

● **Research Papers** are the normal form of publication, and may be of any length that is

justified by their content. However, because of pressure for space in the journal, no paper, whatever its scientific merits, will be accepted if it exceeds the minimum length required for precision in describing the experiments and clarity in interpreting them. As a guide, most Research Papers published in the *Biochemical Journal* are of between six and eight printed pages. A concise well-written paper tends to be published more rapidly.

● **Accelerated Publications (APs)** are short (normally four printed pages) papers bringing particularly novel and significant findings to the attention of the research community. It is intended that a decision on acceptance or rejection will be made within 10 working days of receipt, and publication of accepted APs in an issue will follow within 2 months. APs receive full but accelerated reviewing. The criteria of 'novelty and significance' are strictly enforced, and papers may be rejected solely on the grounds of lack of novelty and significance. APs are not a path to accelerated publication of sound but non-urgent material. Authors must include in their letter of submission a brief statement of why they believe their AP merits accelerated treatment. Papers reporting nucleotide sequences only are not acceptable as APs. One colour figure will be published free of charge in APs; subsequent figures will cost £300 each.

● **Reviews** will usually be solicited, although unsolicited reviews will be considered for publication. Prospective writers of reviews should first consult the Reviews Editor, via the editorial office, and should enclose a short (one typed page) summary of the area they propose to cover.

● **Procedure for submission** These instructions do not replace the official *Biochemical Journal* Instructions to Authors (<http://www.BiochemJ.org>). Authors are encouraged to refer to these for overall guidelines on submitting a paper. Before preparing papers for the journal, authors should consult a current issue to make themselves familiar with the general format, such as the use of cross-headings, layout of tables and figures and citation of references. A full page of text in the *Biochemical Journal* contains approximately 1200 words; when calculating the printed length of papers, allowance must be made for the space occupied by tables and figures and the number of text words reduced accordingly.

The numerical system of references must be used. A reference to 'unpublished work'

must be accompanied by the names of all persons concerned: a reference to a 'personal communication' must be supported by written permission for the quotation from the person or persons concerned; both of these types of citation are permitted in the text only, not in the list of references.

● **Submit manuscripts online** Authors should submit manuscripts electronically using the Online Submission and Review System available at <http://www.BiochemJ.org/submit/>

● **Immediate Publications** Manuscripts are published online in PDF format as soon as they are accepted, unless on submission the author requests that this not be done. Immediate Publications are listed in and accessible through Medline, and are freely available to anyone with Internet access.

● **Queries and correspondence** Authors in the Americas should address all queries and correspondence about their submission to: Dr Sharon Schendel, BJ USA, The Burnham Institute, 10901 N. Torrey Pines Road, La Jolla, CA 92037, U.S.A. (telephone +1 858 713 6283; fax +1 858 713 6284; email editorial@biochemjusa.org). Authors in the U.K., the rest of Europe, Japan and the rest of the world should contact: The Publisher, *Biochemical Journal*, 59 Portland Place, London W1B 1QW, U.K. (telephone +44 20 7637 5873; fax +44 20 7323 1136; email editorial@portlandpress.com).

● **Colour figures** The first colour figure is published at no charge provided that one author has been a member of the Biochemical Society for at least 2 years and that the use of colour is deemed scientifically necessary by the reviewers. Subsequent colour figures in the same paper cost £300 each.

● **Multimedia adjuncts** The *Biochemical Journal* Online offers authors the opportunity to enhance their papers with multimedia adjuncts (e.g. time-lapse movies, three-dimensional structures, animated schemes). These will be submitted to peer review alongside the manuscript. To submit a paper with a multimedia adjunct, please attach the file when you submit your manuscript electronically. Preferred formats are QuickTime for time-lapse movies and PDB for structures. There is no extra charge associated with the publication of a multimedia adjunct online.

Other information

The *Biochemical Journal* is published and distributed by Portland Press Ltd on behalf of the Biochemical Society. It is published twice monthly; in 2005 volumes 385–392 (three parts each) will appear. The subscription also includes an author and key-word index.

● **Subscription rates** Institutional subscription rates for 2005 are shown below. Subscribers to the *Biochemical Journal* can subscribe additionally to *Biochemical Society Transactions* and *Biotechnology and Applied Biochemistry* on a joint subscription at a reduced rate. Terms are cash with order (US\$ in N. America, £ sterling for rest of the world, or US\$ equivalent at current rate of exchange; subscribers in the EU may pay in £ sterling or Euros), or against pro forma invoice. Orders should be sent to the address shown, or through your usual agent.

	N. America	Rest of world	Euro price
One year (8 vols)			
Print and online	US\$2830	£1496	€2545
Online only	US\$2500	£1325	€2250
Single issues (print only)	US\$138.70	£73	€124.10

Overseas rates include airfreight delivery. Priority delivery is available at an additional cost of £61.80/€105.

VAT is due on some supplies to subscribers within the UK, and to non-registered subscribers elsewhere in the EU. If in the EU please state your VAT number otherwise VAT may be charged at the appropriate national rate.

● **Electronic back archive** This is freely available to all users with Internet access.

● **Microfiche and back issues** Volumes 102–336 of the *Biochemical Journal* are available on microfiche. Back issues are also available. Further details may be obtained from the address below.

● Subscription Department

Portland Customer Services
P.O. Box 32, Commerce Way
Colchester CO2 8HP, Essex, U.K.
(telephone 01206 796351; fax 01206-799331;
email sales@portland-services.com).

● **Advertising** Enquiries about advertising should be addressed to: Nicky Peacock, Mainline Media Ltd, The Barn, Oakley Hay Lodge Business Park, Great Folds Road, Great Oakley, Corby, Northamptonshire NN18 9AS, U.K. (telephone 01536 747333; email Nickyppmm@aol.com).

Online Commentary

IAP proteins: sticking it to Smac
Published on the Internet 14 December 2004,
 DOI 10.1042/BJ20041800
(see accompanying papers pp. 1–10 and 11–20)

C.S. Duckett

e1–e2

Research Papers

The BIR domain of IAP-like protein 2 is conformationally unstable: implications for caspase inhibition

Published as BJ Immediate Publication 15 October 2004,
 DOI 10.1042/BJ20041107

H. Shin, M. Renatus, B.P. Eckelman, V.A. Nunes, C.A.M. Sampaio and G.S. Salvesen



1–10

Engineering ML-IAP to produce an extraordinarily potent caspase 9 inhibitor: implications for Smac-dependent anti-apoptotic activity of ML-IAP

Published as BJ Immediate Publication 15 October 2004,
 DOI 10.1042/BJ20041108

D. Vucic, M.C. Franklin, H.J.A. Wallweber, K. Das, B.P. Eckelman, H. Shin, L.O. Elliott, S. Kadkhodayan, K. Deshayes, G.S. Salvesen and W.J. Fairbrother



11–20

Regulation of all members of the antizyme family by antizyme inhibitor

Published as BJ Immediate Publication 8 September 2004,
 DOI 10.1042/BJ20040547

U. Mangold and E. Leberer

21–28

Arginine mutations within a transmembrane domain of Tar, an *Escherichia coli* aspartate receptor, can drive homodimer dissociation and heterodimer association *in vivo*

Published as BJ Immediate Publication 27 August 2004,
 DOI 10.1042/BJ20041022

N. Sal-Man and Y. Shai

29–36

Contribution of the two conserved tryptophan residues to the catalytic and structural properties of *Proteus mirabilis* glutathione S-transferase B1-1

Published as BJ Immediate Publication 23 August 2004,
 DOI 10.1042/BJ20040890

N. Allocati, M. Masulli, M. Pietracupa, B. Favaloro, L. Federici and C. Di Ilio

37–43

Human protein phosphatase 5 dissociates from heat-shock proteins and is proteolytically activated in response to arachidonic acid and the microtubule-depolymerizing drug nocodazole

Published as BJ Immediate Publication 21 September 2004,
 DOI 10.1042/BJ20040690

T. Zeke, N. Morrice, C. Vázquez-Martin and P.T.W. Cohen

45–56

Human cyclo-oxygenase-1 and an alternative splice variant: contrasts in expression of mRNA, protein and catalytic activities

Published as BJ Immediate Publication 13 September 2004,
 DOI 10.1042/BJ20041115

C. Schneider, W.E. Boeglin and A.R. Brash

57–64

Phosphatidylinositol 3,4,5-trisphosphate and Ca²⁺/calmodulin competitively bind to the regulators of G-protein-signalling (RGS) domain of RGS4 and reciprocally regulate its action

Published as BJ Immediate Publication 23 August 2004,
 DOI 10.1042/BJ20040404

M. Ishii, S. Fujita, M. Yamada, Y. Hosaka and Y. Kurachi

65–73

The coenzyme specificity of *Candida tenuis* xylose reductase (AKR2B5) explored by site-directed mutagenesis and X-ray crystallography

Published as BJ Immediate Publication 23 August 2004,
 DOI 10.1042/BJ20040363

B. Petschacher, S. Leitgeb, K.L. Kavanagh, D.K. Wilson and B. Nidetzky

75–83

CD83 is preformed inside monocytes, macrophages and dendritic cells, but it is only stably expressed on activated dendritic cells <i>Published as BJ Immediate Publication 23 August 2004, DOI 10.1042/BJ20040741</i>	W. Cao, S.H. Lee and J. Lu	85–93
K ⁺ channel types targeted by synthetic OSK1, a toxin from <i>Orthochirus scrobiculosus</i> scorpion venom <i>Published as BJ Immediate Publication 24 September 2004, DOI 10.1042/BJ20041379</i>	S. Mouhat, V. Visan, S. Ananthkrishnan, H. Wulff, N. Andreotti, S. Grissmer, H. Darbon, M. De Waard and J.-M. Sabatier	95–104
Identification, purification and characterization of a novel human blood protein with binding affinity for prostate secretory protein of 94 amino acids <i>Published as BJ Immediate Publication 2 September 2004, DOI 10.1042/BJ20040290</i>	J.R. Reeves, J.W. Xuan, K. Arfanis, C. Morin, S.V. Garde, M.T. Ruiz, J. Wisniewski, C. Panchal and J.E. Tanner	105–114
Involvement of a cytoplasmic-tail serine cluster in urotensin II receptor internalization <i>Published as BJ Immediate Publication 30 September 2004, DOI 10.1042/BJ20040807</i>	C.D. Proulx, M. Simaan, E. Escher, S.A. Laporte, G. Guillemette and R. Leduc	115–123
Tissue specificity and regulation of the N-terminal diversity of reticulon 3 <i>Published as BJ Immediate Publication 7 September 2004, DOI 10.1042/BJ20040458</i>	F. Di Scala, L. Dupuis, C. Gaiddon, M. De Tapia, N. Jokic, J.-L. Gonzalez De Aguilar, J.-S. Raul, B. Ludes and J.-P. Loeffler	125–134
Enhancement of endotoxin neutralization by coupling of a C12-alkyl chain to a lactoferricin-derived peptide <i>Published as BJ Immediate Publication 2 September 2004, DOI 10.1042/BJ20041270</i>	J. Andrä, K. Lohner, S.E. Blondelle, R. Jerala, I. Moriyon, M.H.J. Koch, P. Garidel and K. Brandenburg	135–143
Zinc- and iron-dependent cytosolic metallo- β -lactamase domain proteins exhibit similar zinc-binding affinities, independent of an atypical glutamate at the metal-binding site <i>Published as BJ Immediate Publication 23 August 2004, DOI 10.1042/BJ20040773</i>	O. Schilling, A. Vogel, B. Kostecky, H. Natal da Luz, D. Spemann, B. Späth, A. Marchfelder, W. Tröger and W. Meyer-Klaucke	145–153
Regulation of the cell-cycle-dependent internal ribosome entry site of the PITSLRE protein kinase: roles of Unr (upstream of N-ras) protein and phosphorylated translation initiation factor eIF-2 α <i>Published as BJ Immediate Publication 26 August 2004, DOI 10.1042/BJ20040963</i>	S.A. Tinton, B. Schepens, Y. Bruynooghe, R. Beyaert and S. Cornelis	155–163
Identification of a novel rat hepatic gene induced early by insulin, independently of glucose <i>Published as BJ Immediate Publication 2 September 2004, DOI 10.1042/BJ20040586</i>	S. Coffy, J.-F. Decaux, J. Girard, Y. de Keyzer and M. Asfari	165–171
A cryptic matrix targeting signal of the yeast ADP/ATP carrier normally inserted by the TIM22 complex is recognized by the TIM23 machinery <i>Published as BJ Immediate Publication 23 August 2004, DOI 10.1042/BJ20040650</i>	M.A.S. Vergnolle, H. Sawney, T. Junne, L. Dolfini and K. Tokatlidis	173–180
Efficient co-expression of a recombinant staphopain A and its inhibitor staphostatin A in <i>Escherichia coli</i> <i>Published as BJ Immediate Publication 23 August 2004, DOI 10.1042/BJ20040958</i>	B. Wladyka, K. Puzia and A. Dubin	181–187
Apolipoprotein CI overexpression is not a relevant strategy to block cholesteryl ester transfer protein (CETP) activity in CETP transgenic mice <i>Published as BJ Immediate Publication 1 September 2004, DOI 10.1042/BJ20041149</i>	T. Gautier, D. Masson, M.C. Jong, J.-P. Pais De Barros, L. Duverneuil, N. Le Guern, V. Deckert, L. Dumont, A. Bataille, Z. Zak, X.-C. Jiang, L.M. Havekes and L. Lagrost	189–195
Activation of an α_{2A} -adrenoceptor-G α_{o1} fusion protein dynamically regulates the palmitoylation status of the G protein but not of the receptor <i>Published as BJ Immediate Publication 14 September 2004, DOI 10.1042/BJ20041432</i>	E. Barclay, M. O'Reilly and G. Milligan	197–206




online data



online data



online data

Insulin activates the rat sterol-regulatory-element-binding protein 1c (SREBP-1c) promoter through the combinatorial actions of SREBP, LXR, Sp-1 and NF- κ B <i>cis</i> -acting elements <i>Published as BJ Immediate Publication 26 August 2004,</i> <i>DOI 10.1042/BJ20040162</i>	L.M. Cagen, X. Deng, H.G. Wilcox, E.A. Park, R. Raghow and M.B. Elam	207–216
Identification, molecular cloning and functional characterization of a novel NADH kinase from <i>Arabidopsis thaliana</i> (thale cress) <i>Published as BJ Immediate Publication 3 September 2004,</i> <i>DOI 10.1042/BJ20040292</i>	W.L. Turner, J.C. Waller and W.A. Snedden	217–223
The Nramp orthologue of <i>Cryptococcus neoformans</i> is a pH-dependent transporter of manganese, iron, cobalt and nickel <i>Published as BJ Immediate Publication 7 September 2004,</i> <i>DOI 10.1042/BJ20040836</i>	D. Agranoff, L. Collins, D. Kehres, T. Harrison, M. Maguire and S. Krishna	225–232
Functional interaction between p75 ^{NTR} and TrkA: the endocytic trafficking of p75 ^{NTR} is driven by TrkA and regulates TrkA-mediated signalling <i>Published as BJ Immediate Publication 27 August 2004,</i> <i>DOI 10.1042/BJ20041155</i>	L. Perrone, S. Paladino, M. Mazzone, L. Nitsch, M. Gulisano and C. Zurzolo	233–241
Conserved extracellular cysteine residues and cytoplasmic loop–loop interplay are required for functionality of the heptahelical MLO protein <i>Published as BJ Immediate Publication 8 September 2004,</i> <i>DOI 10.1042/BJ20040993</i>	C. Elliott, J. Müller, M. Miklis, R.A. Bhat, P. Schulze-Lefert and R. Panstruga	 243–254
Structural characterization of <i>Escherichia coli</i> sensor histidine kinase EnvZ: the periplasmic C-terminal core domain is critical for homodimerization <i>Published as BJ Immediate Publication 9 September 2004,</i> <i>DOI 10.1042/BJ20041125</i>	A. Khorchid, M. Inouye and M. Ikura	 255–264
Protein interaction quantified <i>in vivo</i> by spectrally resolved fluorescence resonance energy transfer <i>Published as BJ Immediate Publication 7 September 2004,</i> <i>DOI 10.1042/BJ20040226</i>	V. Raicu, D.B. Jansma, R.J.D. Miller and J.D. Friesen	265–277
Differential induction of quinone reductase by phytoestrogens and protection against oestrogen-induced DNA damage <i>Published as BJ Immediate Publication 30 September 2004,</i> <i>DOI 10.1042/BJ20040959</i>	N.R. Bianco, L.J. Chaplin and M.M. Montano	279–287
Ribosomal protein L7a binds RNA through two distinct RNA-binding domains <i>Published as BJ Immediate Publication 13 September 2004,</i> <i>DOI 10.1042/BJ20040371</i>	G. Russo, M. Cuccurese, G. Monti, A. Russo, A. Amoresano, P. Pucci and C. Pietropaolo	289–299
The predominant polyphenol in the leaves of the resurrection plant <i>Myrothamnus flabellifolius</i> , 3,4,5 tri-O-galloylquinic acid, protects membranes against desiccation and free radical-induced oxidation <i>Published as BJ Immediate Publication 9 September 2004,</i> <i>DOI 10.1042/BJ20040499</i>	J.P. Moore, K.L. Westall, N. Ravenscroft, J.M. Farrant, G.G. Lindsey and W.F. Brandt	301–308
ADP-ribosylation of integrin α 7 modulates the binding of integrin α 7 β 1 to laminin <i>Published as BJ Immediate Publication 13 September 2004,</i> <i>DOI 10.1042/BJ20040590</i>	Z. Zhao, J. Gruszczynska-Biegala and A. Zolkiewska	309–317
Molecular basis of pollen-related food allergy: identification of a second cross-reactive IgE epitope on Pru av 1, the major cherry (<i>Prunus avium</i>) allergen <i>Published as BJ Immediate Publication 27 August 2004,</i> <i>DOI 10.1042/BJ20040842</i>	R. Wiche, M. Gubesch, H. König, K. Fötisch, A. Hoffmann, A. Wangorsch, S. Scheurer and S. Vieths	319–327

Biochemical Journal

The Biochemical Society, London © 2005

Volume 385, 2005

Editorial Board

Chair

G. Banting • Bristol

Vice Chair, The Americas

G. Salvesen • La Jolla

Reviews Editor

J. D. Scott • Portland, OR

Deputy Chairs

R. A. J. Challiss • Leicester

S. V. Graham • Glasgow

S. Gutteridge • Newark, DE

D. Hoekstra • Groningen

N. M. Hooper • Leeds

J. P. Kehrer • Austin

C. MacKintosh • Dundee

K. H. Mayo • Minneapolis

H. M. Wallace • Aberdeen

M. P. Walsh • Calgary

Publisher

P. J. Starley

Production Editor

M. D. Cunningham

Senior Staff Editor

S. M. Hobday

Staff Editors

L. Ball

E. A. G. Elloway

L. Johnson

J. W. Mockridge

L. M. Petty

M. R. Thorne

Administrative Editor, US Office

S. Schendel

D. R. Alessi (Dundee)

G. J. Barritt (Adelaide)

J. L. Blank (Cambridge, MA)

M. Blatt (Glasgow)

P. G. Board (Canberra)

M. Bogoy (Stanford, CA)

L. Bosca (Madrid)

B. Brüne (Kaiserslautern)

D. Carling (London)

A. Clerk (London)

G. P. Côté (Kingston, Ont.)

J. R. Couchman (London)

D. A. Day (Sydney)

C. S. Duckett (Ann Arbor)

B. Engelmann (Munich)

R. M. Epand (Hamilton, Ont.)

D. A. Fell (Oxford)

R. Ferraris (Newark, NJ)

B. Foxwell (London)

J.-M. Frère (Liège)

A. Galione (Oxford)

P. G. W. Gettins (Chicago)

D. A. F. Gillespie (Glasgow)

S. Goodbourn (London)

P. A. Grimaldi (Nice)

B. Hallberg (Umeå)

P. I. Haris (Leicester)

L. Hedstrom (Waltham, MA)

F. G. Hegardt (Barcelona)

S. High (Manchester)

I. B. Holland (Orsay)

J. Hsuan (London)

S. Huber (Urbana, IL)

R. Kalluri (Boston)

B. Kalyanaraman (Milwaukee)

M. G. Kazanietz (Philadelphia)

I. M. Kovach (Washington D.C.)

P. W. Kuchel (Sydney)

R. Leduc (Sherbrooke)

E. R. Levin (Long Beach, CA)

L. Machesky (Birmingham)

R. Marais (London)

P. Maurel (Montpellier)

M. Meisterernst (Munich)

H. Mellor (Bristol)

I. Morgan (Glasgow)

W. Müller-Esterl (Frankfurt)

B. Mulloy (South Mimms)

A. W. Munro (Leicester)

M. P. Murphy (Cambridge)

L. M. Obeid (Charleston)

M. Parenti (Monza)

M. A. J. Parry (Harpden)

S. Patel (London)

G. Pavitt (Manchester)

M. Paulsson (Cologne)

L. Persson (Lund)

A. D. Postle (Southampton)

N. J. Pyne (Glasgow)

D. R. Richardson (Sydney)

S. Roberts (Manchester)

N. J. P. Ryba (Bethesda)

J. R. Sayers (Sheffield)

S. C. Sealfon (New York)

P. R. Shepherd (Auckland)

A. Sim (Callaghan, NSW)

B. F. Sloane (Detroit)

C. W. Taylor (Cambridge)

M. Thumm (Goettingen)

M. A. Titheradge (Brighton)

A. B. Tobin (Leicester)

A. Toker (Boston)

S. A. Tooze (London)

M. Torti (Pavia)

C. Troy (New York)

D. M. F. van Aalten (Dundee)

B. Vanhaesebroeck (London)

S. G. Ward (Bath)

J. F. Woessner (Miami)

J. York (Durham, NC)

S. Yoshikawa (Akoh-Hyogo)

C. Zurzolo (Paris)

PORTLAND PRESS Ltd

59 Portland Place
London
W1B 1QW U.K.



ISSN 0264-6021

Index of Authors

	PAGE		PAGE		PAGE		PAGE
Agranoff, D.	225	Fairbrother, W. J.	11	Leitgeb, S.	75	Russo, A.	289
Allocati, N.	37	Farrant, J. M.	301	Lindsey, G. G.	301	Russo, G.	289
Amoresano, A.	289	Favaloro, B.	37	Loeffler, J.-P.	125		
Ananthkrishnan, S.	95	Federici, L.	37	Lohner, K.	135	Sabatier, J.-M.	95
Andrä, J.	135	Fötisch, K.	319	Lu, J.	85	Sal-Man, N.	29
Andreotti, N.	95	Franklin, M. C.	11	Ludes, B.	125	Salvesen, G. S.	1, 11
Arfanis, K.	105	Friesen, J. D.	265			Sampaio, C. A. M.	1
Asfari, M.	165	Fujita, S.	65	Maguire, M.	225	Sawney, H.	173
				Mangold, U.	21	Schepens, B.	155
Barclay, E.	197	Gaiddon, C.	125	Marchfelder, A.	145	Scheurer, S.	319
Bataille, A.	189	Garde, S. V.	105	Masson, D.	189	Schilling, O.	145
Beyaert, R.	155	Garidel, P.	135	Masulli, M.	37	Schneider, C.	57
Bhat, R. A.	243	Gautier, T.	189	Mazzone, M.	233	Schulze-Lefert, P.	243
Bianco, N. R.	279	Girard, J.	165	Meyer-Klaucke, W.	145	Shai, Y.	29
Blondelle, S. E.	135	Gonzalez De Aguilar, J.-L.	125	Miklis, M.	243	Shin, H.	1, 11
Boeglin, W. E.	57	Grissmer, S.	95	Miller, R. J. D.	265	Simaan, M.	115
Brandenburg, K.	135	Gruszczynska-Biegala, J.	309	Milligan, G.	197	Snedden, W. A.	217
Brandt, W. F.	301	Gubesch, M.	319	Montano, M. M.	279	Späth, B.	145
Brash, A. R.	57	Guillemette, G.	115	Monti, G.	289	Spemann, D.	145
Bruynooghe, Y.	155	Gulisano, M.	233	Moore, J. P.	301		
				Morin, C.	105	Tanner, J. E.	105
Cagen, L. M.	207	Harrison, T.	225	Moriyon, I.	135	Tinton, S. A.	155
Cao, W.	85	Havekes, L. M.	189	Morrice, N.	45	Tokatlidis, K.	173
Chaplin, L. J.	279	Hoffmann, A.	319	Mouhat, S.	95	Tröger, W.	145
Coffy, S.	165	Hosaka, Y.	65	Müller, J.	243	Turner, W. L.	217
Cohen, P. T. W.	45						
Collins, L.	225	Ikura, M.	255	Natal da Luz, H.	145	Vázquez-Martin, C.	45
Cornelis, S.	155	Inouye, M.	255	Nidetzky, B.	75	Vergnolle, M. A. S.	173
Cuccurese, M.	289	Ishii, M.	65	Nitsch, L.	233	Vieths, S.	319
				Nunes, V. A.	1	Visan, V.	95
Darbon, H.	95	Jansma, D. B.	265	O'Reilly, M.	197	Vogel, A.	145
Das, K.	11	Jerala, R.	135			Vucic, D.	11
Decaux, J.-F.	165	Jiang, X.-C.	189				
Deckert, V.	189	Jokic, N.	125	Pais De Barros, J.-P.	189	Waller, J. C.	217
de Keyzer, Y.	165	Jong, M. C.	189	Paladino, S.	233	Wallweber, H. J. A.	11
Deng, X.	207	Junne, T.	173	Panchal, C.	105	Wangorsch, A.	319
Deshayes, K.	11			Panstruga, R.	243	Westall, K. L.	301
De Tapia, M.	125	Kadkhodayan, S.	11	Park, E. A.	207	Wiche, R.	319
De Waard, M.	95	Kavanagh, K. L.	75	Perrone, L.	233	Wilcox, H. G.	207
Di Ilio, C.	37	Kehres, D.	225	Petschacher, B.	75	Wilson, D. K.	75
Di Scala, F.	125	Khorchid, A.	255	Pietracupa, M.	37	Wisniewski, J.	105
Dolfini, L.	173	Koch, M. H. J.	135	Pietropaolo, C.	289	Wladyka, B.	181
Dubin, A.	181	König, H.	319	Proulx, C. D.	115	Wulff, H.	95
Duckett, C. S.	e1	Kostelecky, B.	145	Pucci, P.	289		
Dumont, L.	189	Krishna, S.	225	Puzia, K.	181	Xuan, J. W.	105
Dupuis, L.	125	Kurachi, Y.	65				
Duverneuil, L.	189			Raghow, R.	207	Yamada, M.	65
		Lagrost, L.	189	Raicu, V.	265		
Eckelman, B. P.	1, 11	Laporte, S. A.	115	Raul, J.-S.	125	Zak, Z.	189
Elam, M. B.	207	Leberer, E.	21	Ravenscroft, N.	301	Zeke, T.	45
Elliott, C.	243	Leduc, R.	115	Reeves, J. R.	105	Zhao, Z.	309
Elliott, L. O.	11	Lee, S. H.	85	Renatus, M.	1	Zolkiewska, A.	309
Escher, E.	115	Le Guern, N.	189	Ruiz, M. T.	105	Zurzolo, C.	233