

Contents to volume 293

Hypothesis

- Co-operative binding of hsp60 may promote transfer hsp70 and correct folding of imported proteins in mitochondria (FEBS 10389) *T. Endo*

Minireview

- Molecular mechanisms for mammalian melanogenesis: Comparison with insect cuticular sclerotization (FEBS 10390) *M. Sugumaran*
- Interactions between the antimicrobial peptide, magainin 2, and *Salmonella typhimurium* lipopolysaccharides (FEBS 10370) *F.R. Rana, J. Blazyk*
- Effect of heat shock on acetylcholinesterase activity in chick muscle cultures (FEBS 10371) *J. Eichler, L. Toker, I. Silman*
- P26 - calcium binding protein from bovine retinal photoreceptor cells (FEBS 10373) *M.A. Kutuzov, B.E. Shmukler, O.N. Suslov, A.E. Dergachev, A.A. Zargarov, N.G. Abdulaev*
- Nucleotide sequence of a novel δ -endotoxin gene *cryIlg* of *Bacillus thuringiensis* ssp. *galleriae* (FEBS 10374) *S.V. Smulevitch, A.L. Osterman, A.B. Shevelev, S.V. Kaluger, A.I. Karasin, R.M. Kadyrov, O.P. Zagnitko, G.G. Chestukhina, V.M. Stepanov*
- Identification of different receptor types for toxic phospholipases A2 in rabbit skeletal muscle (FEBS 10376) *G. Lambeau, J. Barhanin, M. Lazdunski*
- Mutational analysis of the putative PLA₂-inhibiting sequence of annexin I (FEBS 10377) *G. Travé, D. Lees, J.-P. Liautard, J.S. Widada*
- The nucleotide and deduced amino acid sequences of porcine liver proline- β -naphthylamidase: Evidence for the identity with carboxylesterase (FEBS 10378) *M. Matsushima, H. Inoue, M. Ichinose, S. Tsukada, K. Miki, K. Kurokawa, T. Takahashi, K. Takahashi*
- Role of metal ions in the assembly and decay of the transcription initiation complex on tRNA gene in yeast extracts (FEBS 10384) *P. Szafranski, W.J. Smagowicz*
- Phosphoramidon inhibits the generation of endothelin-1 from exogenously applied big endothelin-1 in cultured vascular endothelial cells and smooth muscle cells (FEBS 10379) *R. Ikegawa, Y. Matsumura, Y. Tsukahara, M. Takaoka, S. Morimoto*
- Identification of 11-*cis* and all-*trans*-retinal in the photoreceptive organelle of a flagellate green alga (FEBS 10380) *G. Kreimer, F.-J. Marner, U. Brohmann, M. Melkonian*
- Photooxidation of high-potential (c_{550} , c_{556}) and low-potential (c_{552}) hemes in the cytochrome subunit of *Rhodospseudomonas viridis* reaction center: Characterization by FTIR spectroscopy (FEBS 10381) *E. Nabedryk, C. Berthomieu, A. Verméglio, J. Breton*
- The 65-kDa protein from pig heart: A new substrate for *Clostridium botulinum* ADP-ribosyltransferase (exoenzyme C₃) (FEBS 10385) *S.I. Hoffenberg, V.O. Rybin, A.N. Efimenko, I.N. Kurochkin, V.A. Tkachuk*
- Biogenesis of the yeast vacuole (lysosome): Active site mutation in the vacuolar aspartate proteinase yscA blocks maturation of vacuolar proteinases (FEBS 10386) *S. Rupp, H.H. Hirsch, D.H. Wolf*
- Phosphorylation of the catalytic subunit of type-I protein phosphatase by the v-abl tyrosine kinase (FEBS 10387) *E. Villa-Moruzzi, P.D. Zonca, J.W. Crabbs*
- Simple techniques for the quantification of protein secondary structure by ¹H NMR spectroscopy (FEBS 10388) *D.S. Wishart, B.D. Sykes, F.M. Richards*

- Band 3-hemoglobin associations: The band 3 tetramer is the oxyhemoglobin binding site (FEBS 10391) *P. Schuck, D. Schubert*
- Mitochondrial preproteins en route from the outer membrane to the inner membrane are exposed to the intermembrane space (FEBS 10393) *J. Rassow, N. Pfanner*
- Structure and expression of subunit A from the bovine chromaffin cell vacuolar ATPase (FEBS 10394) *Y.-X. Pan, J. Xu, J.E. Strasser, M. Howell, G.E. Dean*
- Mapping the site of block by tetrodotoxin and saxitoxin of sodium channel II (FEBS 10413) *H. Terlau, S.H. Heinemann, W. Stühmer, M. Pusch, F. Conti, K. Imoto, S. Numa*
- The promoter of *Saccharomyces cerevisiae* FBA1 gene contains a single positive upstream regulatory element (FEBS 10415) *C. Compagno, B.M. Razzi, E. Martegani*
- Single electron reduction of 'slow' and 'fast' cytochrome-c oxidase (FEBS 10392) *A.J. Moody, U. Brandt, P.R. Rich*
- Purification and characterization of human T-cell leukemia virus type I protease produced in *Escherichia coli* (FEBS 10397) *M. Kobayashi, Y. Ohi, T. Asano, T. Hayakawa, K. Kato, A. Kakinuma, M. Hatanaka*
- Between the ground- and M-state of bacteriorhodopsin the retinal transition dipole moment tilts out of the plane of the membrane by only 3° (FEBS 10375) *H. Otto, M.P. Heyn*
- Lipoylation of H-protein of the glycine cleavage system: The effect of site-directed mutagenesis of amino acid residues around the lipoyllysine residue on the lipoate attachment (FEBS 10396) *K. Fujiwara, K. Okamura-Ikeda, Y. Motokawa*
- Inhibition of nerve growth factor-induced neurite outgrowth of PC12 cells by a protein kinase inhibitor which does not permeate the cell membrane (FEBS 10398) *K. Nagashima, S. Nakanishi, Y. Matsuda*
- Detection of small GTP-binding proteins in the outer envelope membrane of pea chloroplasts (FEBS 10400) *Y. Sasaki, K. Sekiguchi, Y. Nagano, R. Matsuno*
- Modified low density lipoproteins activate human macrophages to secrete immunoreactive endothelin (FEBS 10399) *F. Martin-Nizard, H.S. Houssaini, S. Lestavel-Delattre, P. Duriez, J.-C. Fruchart*
- Chlorophyll catabolism in *Chlorella protothecoides*: Isolation and structure elucidation of a red bilin derivative (FEBS 10401) *N. Engel, T.A. Jenny, V. Mooser, A. Gossauer*
- Targeting of ricin A chain into pea chloroplasts (FEBS 10402) *L.M. Roberts, J.W. Meadows, C. Robinson*
- Electrophysiological activity of the C-peptide of the *Locusta* insulin-related peptide: Effect on the membrane conductance of *Locusta* neurones in vitro (FEBS 10403) *I. Bermudez, D.J. Beadle, E. Trifilieff, B. Luu, H. Hietter*
- The presence of two types of prorenin converting enzymes in the mouse submandibular gland (FEBS 10405) *W.-S. Kim, K. Nakayama, K. Murakami*
- Phorbol 12-myristate-13-acetate (PMA) stimulates a differential expression of cholecystokinin (CCK) and *c-fos* mRNA in a human neuroblastoma cell line (FEBS 10404) *H.-J. Monstein, R. Folkesson*
- Relative-residue surface-accessibility patterns reveal myoglobin and catalase similarity (FEBS 10360) *V.B. Cockcroft, D.J. Osguthorpe*
- Mutation of an evolutionarily conserved tyrosine residue in the active site of a human class Alpha glutathione transferase (FEBS 10409) *G. Stenberg, P.G. Board, B. Mannervik*
- Cysteine residues are not essential for the catalytic activity of human class Mu glutathione transferase M1a-1a (FEBS 10410) *M. Widersten, E. Holmström, B. Mannervik*

Impaired affinity for phenylalanine in <i>Escherichia coli</i> phenylalanyl-tRNA synthetase mutant caused by Gly-to-Asp exchange in motif 2 of class II tRNA synthetases (FEBS 10412) P. Kast, C. Wehrli, H. Hennecke	160	The DNA sequence specificity of cyanomorpholinoadriamycin (FEBS 10420) C. Cullinane, D.R. Phillips	195
Bacterioferritins and ferritins are distantly related in evolution: Conservation of ferroxidase-centre residues (FEBS 10417) S.C. Andrews, J.M.A. Smith, S.J. Yewdall, J.R. Guest, P.M. Harrison	164	Overproduction of human Mn-superoxide dismutase modulates paraquat-mediated toxicity in mammalian cells (FEBS 10425) D.K. St. Clair, T.D. Oberley, Y.-S. Ho	199
A novel conformationally restricted protein kinase C inhibitor, Ro 31-8425, inhibits human neutrophil superoxide generation by soluble, particulate and post-receptor stimuli (FEBS 10406) R.E. Muid, M.M. Dale, P.D. Davis, L.H. Elliott, C.H. Hill, H. Kumar, G. Lawton, B.M. Twomey, J. Wadsworth, S.E. Wilkinson, J.S. Nixon	169	Cleavage reaction of a synthetic oligoribonucleotide corresponding to the autocleavage site of a precursor RNA from bacteriophage T4 (FEBS 10423) H. Hosaka, T. Ogawa, K. Sakamoto, S. Yokoyama, H. Takaku	204
Uncoupling protein is expressed in liver mitochondria of cold-exposed and newborn rats (FEBS 10407) Y. Shinohara, A. Shima, M. Kamida, H. Terada	173	Fast cell membrane displacements in B lymphocytes: Modulation by dihydrocytochalasin B and colchicine (FEBS 10422) L. Mittelman, S. Levin, R. Korenstein	207
Repression of the CaMV 35S promoter by the octopine synthase enhancer element (FEBS 10408) C. Gatz, J. Katzek, S. Prat, A. Heyer	175	Decline of signal transduction by phospholipase C γ 1 in IMR 90 human diploid fibroblasts at high population doubling levels (FEBS 10424) G.G. Choudhury, V.L. Sylvia, A.Y. Sakaguchi	211
Inositol triphosphate produces different patterns of cytoplasmic Ca ²⁺ spiking depending on its concentration (FEBS 10411) C.C.H. Petersen, E.C. Toescu, B.V.L. Potter, O.H. Petersen	179	Ethanol and lipid metabolism: Differential effects on liver and brain microsomes (FEBS 10426) M.C. Sanchez-Amate, J.M. Zurera, M.P. Carrasco, J.L. Segovia, C. Marco	215
Correlation of apoproteins with the genes of the major chlorophyll <i>a/b</i> binding protein of photosystem II in <i>Arabidopsis thaliana</i> : Confirmation for the presence of a third member of the LHC IIb gene family (FEBS 10414) D.T. Morishige, J.P. Thornber	183	Magainins affect respiratory control, membrane potential and motility of hamster spermatozoa (FEBS 10427) A. de Waal, A.V. Gomes, A. Mensink, J.A. Grootegoed, H.V. Westerhoff	219
Protein phosphorylation stimulates the rate of malate uptake across the peribacteroid membrane of soybean nodules (FEBS 10418) L.-J. Ouyang, J. Whelan, C.D. Weaver, D.M. Roberts, D.A. Day	188	Book Reviews & Booklist	224
The γ 3-subunit of the GABA _A -receptor confers sensitivity to benzodiazepine receptor ligands (FEBS 10419) F. Knoflach, T. Rhyner, M. Villa, S. Kellenberger, U. Drescher, P. Malherbe, E. Sigel, H. Möhler	191	FEBS News	234
		Errata & Corrigenda	236
		Author Index to volume 293	237
		Contents to volume 293	240