

Titles of related papers in other sections

The following papers which have recently appeared in other sections of BIOCHIMICA ET BIOPHYSICA ACTA may be of interest to the readers of this specialized section:

BBA-BIOMEMBRANES

- Mechanism of transport-associated phosphorylation of 2-deoxy-D-glucose in the yeast *Kluyveromyces marxianus*: characterization of the phosphoryl source
J. Schuddemat, C.C.M. Van Leeuwen, P.J.A. Van den Broek and J. Van Stevenick (The Netherlands) 986 (1989) 290–294
- Effect of detergents on the H⁺-ATPase activity of inside-out and right-side-out plant plasma membrane vesicles
M.G. Palmgren, M. Sommarin, P. Uluskov and C. Larsson (Sweden, U.S.A.) 1021 (1990) 133–140
- Improved methods to isolate and subfractionate rat liver mitochondria. Lipid composition of the inner and outer membrane
R. Hovius, H. Lambrechts, K. Nicolay and B. De Kruijff (The Netherlands) 1021 (1990) 217–226
- Inhibition by caltrin of calcium transport into spermatozoa, liver and heart mitochondria
H. Breitbart, R.S. Wehbie, J. San Agustin and H.A. Lardy (U.S.A., Israel) 1022 (1990) 27–32
- Two-dimensional gel electrophoretic resolution of the polypeptides of rat liver mitochondria and the outer membrane
R.J. Pavlica, C.B. Hesler, L. Lipfert, I.N. Hirshfield and D. Haldar (U.S.A.) 1022 (1990) 115–125
- Uptake of aspartate aminotransferase into mitochondria in vitro causes efflux of malate dehydrogenase and vice versa
S. Passarella, D. Marra, A. Atlante, M. Barile, S. Doonan and E. Quagliariello (Italy, Republic of Ireland) 1022 (1990) 273–282
- Mechanism of enhanced melibiose transport rate catalyzed by an *Escherichia coli* lactose carrier mutant with leucine substituted for serine-306. The pH-dependence of melibiose efflux
S.C. King and T.H. Wilson (U.S.A.) 1022 (1990) 373–380
- Composition of the inner mitochondrial membrane of porcine corpus luteum
J.W. Holland and P.M. Stevenson (Australia) 1022 (1990) 401–407
- Hydrogen peroxide formation and iron ion oxidoreduction linked to NADH oxidation in radish plasmalemma vesicles
A. Vianello, M. Zancani and F. Macri (Italy) 1023 (1990) 19–24
- Relation between membrane phospholipid composition, fluidity and function in mitochondria of rat brown adipose tissue. Effect of thermal adaptation and essential fatty acid deficiency
C. Senault, J. Yazbeck, M. Goubern, R. Portet, M. Vincent and J. Gallay (France) 1023 (1990) 283–289
- Orientation of xanthophylls in phosphatidylcholine multibilayers
W.I. Gruszecki and J. Siewiewskiuk (Poland) 1023 (1990) 405–412
- NMR, calorimetric, spin-label, and optical studies on a trifluoromethyl-substituted styryl molecular probe in dimyristoylphosphatidylcholine vesicles and multilamellar suspensions: a model for location of optical probes
B.P. Bammel, D.D. Hamilton, R.P. Haugland, H.P. Hopkins, J. Schuette, W. Szalecki and J.C. Smith (U.S.A.) 1024 (1990) 61–81
- Group IIIA-metal hydroxides indirectly neutralize the voltage sensor of the voltage-dependent mitochondrial channel, VDAC, by interacting with a dynamic binding site
D.-W. Zhang and M. Colombini (U.S.A.) 1025 (1990) 127–134
- Light- and dark-adapted bacteriorhodopsin, a time-resolved neutron diffraction study
N.A. Dencher, G. Papadopoulos, D. Dresselhaus and G. Büldt (Germany) 1026 (1990) 51–56
- Mechanism of local anesthetic effect on mitochondrial ATP synthase as deduced from photolabelling and inhibition studies with phenothiazine derivatives
E. Dabbeni-Sala, G. Shiao and P. Palatini (Italy) 1026 (1990) 117–125
- Dimethyl sulfoxide: a possible effect on the interconversion of phosphorylated forms of Na⁺, K⁺-ATPase
V.L.G. De Moraes (Brasil) 1026 (1990) 135–140
- Effect of changes in cation concentration near bilayer lipid membrane on the rate of carrier-mediated cation fluxes and on the carrier apparent selectivity
Y.N. Antonenko and L.S. Yaguzhinsky (U.S.S.R.) 1026 (1990) 236–240
- Regulation of calcium transport in bovine spermatozoa
H. Breitbart, R. Wehbie and H. Lardy (Israel, U.S.A.) 1027 (1990) 72–78
- Transport overshoot during 2-methyl-4-amino-5-hydroxymethylpyrimidine uptake by *Saccharomyces cerevisiae*
A. Iwashima, Y. Kimura and Y. Kawasaki (Japan) 1028 (1990) 161–164
- The mitochondrial aspartate/glutamate and ADP/ATP carrier switch from obligate counterexchange to unidirectional transport after modification by SH-reagents
T. Dierks, A. Salentin, C. Heberger and R. Krämer (F.R.G.) 1028 (1990) 268–280
- Pore-like and carrier-like properties of the mitochondrial aspartate/glutamate carrier after modification by SH-reagents: evidence for a preformed channel as a structural requirement of carrier-mediated transport
T. Dierks, A. Salentin and R. Krämer (F.R.G.) 1028 (1990) 281–288
- The conformational changes of apocytochrome *c* upon binding to phospholipid vesicles and micelles of phospholipid based detergents: a circular dichroism study
H.H.J. De Jongh and B. De Kruijff (The Netherlands) 1029 (1990) 105–112
- Action potential duration and activation of ATP-sensitive potassium current in isolated guinea pig ventricular myocytes
J.-F. Faivre and I. Findlay (France) 1029 (1990) 167–172

Regulation of potassium fluxes in *Saccharomyces cerevisiae*
J. Ramos, R. Haro and A. Rodriguez-Navarro (Spain)

1029 (1990) 211–217

The apparent permeability coefficient for proton flux through phosphatidylcholine vesicles is dependent on the direction of flux
F. Anderson Norris and G.L. Powell (U.S.A.)

1030 (1990) 165–171

Direct demonstration of an acid-labile phosphoenzyme in the cycle of the sarcoplasmic reticulum Ca^{2+} -dependent adenosinetriphosphatase
G.L. Alonso, D. Takara and D.A. González (Argentina)

1030 (1990) 172–175

Regeneration of bacteriorhodopsin in mixed micelles

R. Renthal, C. Hannapel, A.S. Nguyen and P. Haas (U.S.A.)

1030 (1990) 176–181

Effect of FCCP on tight junction permeability and cellular distribution of ZO-1 protein in epithelial (MDCK) cells
C. Li and M.J. Poznansky (Canada)

1030 (1990) 297–300

BBA-GENERAL SUBJECTS

ATP: citrate lyase of *Rhodotorula gracilis*: purification and properties
K. Shashi, A.K. Bachhawat and R. Joseph (India)

1033 (1990) 23–30

Metabolism of nitroxide spin labels in subcellular fraction of rat liver. I. Reduction by microsomes

A. Iannone, A. Tomasi, V. Vannini and H.M. Swartz (U.S.A., Italy)

1034(3) (1990) 285–289

Metabolism of nitroxide spin labels in subcellular fractions of rat liver. II. Reduction in the cytosol

A. Iannone, A. Tomasi, V. Vannini and H.M. Swartz (U.S.A., Italy)

1034(3) (1990) 290–293

Analysis of the reduction of nitroxides by flavin mononucleotide

P.D. Morse, II, E.K. Ruuge, M.J. Petro and H.M. Swartz (U.S.A., U.S.S.R.)

1034(3)(1990) 298–302

^{31}P -NMR measurements of ATP, ADP, 2,3-diphosphoglycerate and Mg^{2+} in human erythrocytes

A. Petersen, S.R. Kristensen, J.P. Jacobsen and M. Hørdor (Denmark)

035/2 (1990) 169–174

The influence of an egg-associated peptide on energy metabolism in sea-urchin spermatozoa: the peptide stimulates preferential hydrolysis of phosphatidylcholine and oxidation of fatty acid

M. Mita, N. Ueta, T. Harumi and N. Suzuki (Japan)

1035/2 (1990) 175–181

Characterization of FMN-dependent NADH-quinone reductase induced by menadione in *Escherichia coli*

M. Hayashi, K. Hasegawa, Y. Oguni and T. Unemoto (Japan)

1035/2 (1990) 230–236

Mathematical modelling of the purine metabolism of the rat liver

T. Bartel and H.-G. Holzhütter (G.D.R.)

1035/3 (1990) 331–339

Induction and regulation of cytochrome P450 K-5 (lauric acid hydroxylase) in rat renal microsomes by starvation

S. Imaoka, Y. Yamaguchi and Y. Funae (Japan)

1036/1 (1990) 18–23

Identification of non-equilibrium glycolytic reactions in suspension-cultured plant cells

K. Kubota and H. Ashihara (Japan)

1036/1 (1990) 138–142

BBA-PROTEIN STRUCTURE AND MOLECULAR ENZYMOLOGY

The chlorinating activity of human myeloperoxidase: high initial activity at neutral pH value and activation by electron donors

K.W.M. Zuurbier, A.R.J. Bakkenist, R. Wever and A.O. Muijsers (The Netherlands)

1037 (1990) 140–149

Purification and characterization of a 7Fe ferredoxin from *Streptomyces griseus*

M.K. Trower, M.H. Emptage and F.S. Sariaslani (U.S.A.)

1037/3 (1990) 281–289

Primary structure of a 7Fe ferredoxin from *Streptomyces griseus*

M.K. Trower, J.E. Marshall, M.S. Doleman, M.H. Emptage and F.S. Sariaslani (U.S.A.)

1037/3 (1990) 290–296

Cooperative effect of fructose bisphosphate and glyceraldehyde-3-phosphate dehydrogenase on aldolase action

J. Neuzil, H. Danielson, G.R. Welch and J. Ovádi (Hungary)

1037/3 (1990) 307–312

A kinetic study of photochemical inactivation of adenylate kinases of *Mycobacterium marinum* and bovine heart mitochondria

P.P. Batra and G. Skinner (U.S.A.)

1038/1 (1990) 52–59

Characterization of the hydrogen peroxide-enzyme reaction for two cytochrome c peroxidase mutants

L.B. Vitello, J.E. Erman, J.M. Mauro and J. Kraut (U.S.A.)

1038/1 (1990) 90–97

Optical properties of myofibril and actomyosin suspensions. 1. Angular dependence of light scattering by myofibril suspensions, and its changes under myofibril contraction

N.S. Shelud'ko (U.S.S.R.)

1038 (1990) 315–321

Chemistry in a microenvironment of low pH, generated with the aid of an immobilized proteinase

M.S. Silver and J.H. Haskell (U.S.A.)

1039/1 (1990) 25–32

Purification and characterization of the proton translocating plasma membrane ATPase of red beet storage tissue

L.-S. Huang and E.A. Berry (U.S.A.)

1039/2 (1990) 241–252

Structure and function of the photoreceptor stentorins in *Stentor coeruleus*. I. Partial characterization of the photoreceptor organelle and stentorins

I.-H. Kim, J.S. Rhee, J.W. Huh, S. Florell, B. Faure, K.W. Lee, T. Kahsai, P.-S. Song, N. Tamai, T. Yamazaki and I. Yamazaki (U.S.A., Japan)

1040 (1990) 43–57

Structure and function of the photoreceptor stentorins in *Stentor coeruleus*. II. Primary photoprocess and picosecond time-resolved fluorescence

P.-S. Song, I.-H. Kim, S. Florell, N. Tamai, T. Yamazaki and I. Yamazaki (U.S.A., Japan)

1040 (1990) 58–65

Reactive sulfhydryl groups in *Saccharomyces cerevisiae* phosphoenolpyruvate carboxykinase

E. Cardemil, M.V. Encinas and A.M. Jabalquinto (Chile)

1040 (1990) 71–76

Polyanion binding to cytochrome c probed by resonance Raman spectroscopy

P. Hildebrandt (F.R.G.)

1040 (1990) 175–186

Purification and some properties of the nitrite reductase from the cyanobacterium *Phormidium laminosum*
J.M. Arizmendi and J.L. Serra (Spain) 1040 (1990) 237–244

Structural and chemical properties of a flavodoxin from *Anabaena* PCC 7119
M.F. Fillat, D.E. Edmondson and C. Gomez-Moreno (Spain, U.S.A.) 1040 (1990) 301–307

Preferential degradation of the KMnO_4 -oxidized or *N*-ethylmaleimide-modified form of sarcoplasmic reticulum ATPase by calpain from chick skeletal muscle
S.S. Chung, K.B. Kwak, J.S. Lee, D.B. Ha and C.H. Chung (Korea) 1041 (1990) 160–163

Primary structure and analysis of the location of the regulatory disulfide bond of pea chloroplast NADP-malate dehydrogenase
R. Scheibe, K. Kampfenkel, R. Wessels and D. Trippier (F.R.G.) 1076 (1991) 1–8

Isolation, characterization and partial amino acid sequence of a chloroplast-localized porphobilinogen deaminase from pea (*Pisum sativum* L.)
A.J. Spano and M.P. Timko (U.S.A.) 1076 (1991) 29–36

^1H -NMR study and structure determination of 4,4- and 4,6-dimers from electrochemical reduction of NADP^+
E. Ragg, L. Scaglioni, R. Mondelli, V. Carelli, I. Carelli, A. Casini, A. Finazzi-Agrò, F. Liberatore and S. Tortorella (Italy) 1076 (1991) 37–48

^1H -, ^{13}C -, ^{31}P -NMR studies and conformational analysis of NADP^+ , NADPH coenzymes and of dimers from electrochemical reduction of NADP^+
E. Ragg, I. Scaglioni, R. Mondelli, I. Carelli, A. Casini and S. Tortorella (Italy) 1076 (1991) 49–60

Cyanide-linked dimer-monomer equilibrium of *Chromatium vinosum* ferric cytochrome *c'*
M. Motie, R.J. Kassner, T.E. Meyer and M.A. Cusanovich (U.S.A.) 1076 (1991) 97–100

The high-spin/low-spin equilibrium in cytochrome *P*-450 - A new method for determination of the high-spin content
C. Jung, O. Ristau and H. Rein (G.D.R.) 1076 (1991) 130–136

BBA-LIPIDS & LIPID METABOLISM

ω - and (ω -1)-hydroxylation of arachidonic acid, lauric acid and prostaglandin A_1 by multiple forms of cytochrome *P*-450 purified from rat hepatic microsomes
S. Tanaka, S. Imaoka, E. Kusunose, M. Kusunose, M. Maekawa and Y. Funae (Japan) 1043 (1990) 177–181

Cytochrome *P*-450 involvement in the NADPH-dependent lipid peroxidation in human placental mitochondria
J. Klimek (Poland) 1044 (1990) 158–164

BBA-GENE STRUCTURE & EXPRESSION

Cloning and analysis of the 5'-flanking region of rat Na^+/K^+ -ATPase α subunit gene
Y. Yagawa, K. Kawakami and K. Nagano 1049 (1990) 286–292

Nucleotide sequence of cDNA for nuclear encoded subunit Vb of mouse cytochrome-*c* oxidase
A. Basu and N.G. Avadhani (U.S.A.) 1087 (1990) 98–100

BBA-MOLECULAR CELL RESEARCH

Degranulation in human neutrophils primes the cells for subsequent responsiveness to the chemoattractant *N*-formylmethionylleucyl-phenylalanine but does not increase the sensitivity of the NADPH-oxidase to an intracellular calcium rise
C. Dahlgren and P. Follin (Sweden) 1052 (1990) 42–46