

Author Index

- Aagaard, A., see Namslauer, A. 97
- Abramova, N., see Zvyagilskaya, R. 265
- Achmatov, M.S., see Gizatullina, Z.Z. 286
- Ädelroth, P.
NO reductase as an O₂ reductase: the reaction of the fully reduced NO reductase with O₂ 77
- Affourtit, C., Albury, M.S., Crichton, P.G. and Moore, A.L.
Probing the active site structure and mechanism of the plant alternative oxidase 78
- Affourtit, C., see Crichton, P.G. 83
- Aggeler, R., see Rossignol, R. 303
- Aguilaniu, H., Gustafsson, L., Rigoulet, M. and Nyström, T.
Oxidatively damaged proteins and senescence in *S. cerevisiae* 147
- Aguilaniu, H., see Hlavatá, L. 327
- Aimar, M., Korzeniewski, B., Letellier, T., Mazat, J.-P. and Nazaret, C.
Virtual mitochondria and their control 295
- Akinsiku, A.O., see Giotta, L. 220
- Alberici, L.C., see Oliveira, H.C.F. 299
- Albracht, S.P.J., vanBelzen, R., vanderLinden, E., Faber, B.W., Chevallet, M., Issartel, J.-P., Lunardi, J. and Dupuis, A.
NADH:ubiquinone oxidoreductase (Complex I) contains two FMN groups and has two EPR-detectable [4Fe–4S] clusters, N-2a and N-2b, in the TYKY (NuoI) subunit 169
- Albury, M.S., see Affourtit, C. 78
- Albury, M.S., see Crichton, P.G. 83
- Aldag, I., Greie, J.-C. and Altendorf, K.
Variability of subunit *c* stoichiometry in isolated F_o complexes 26
- Aleardi, A., see Solaini, G. 312
- Aleksakhina, K., see Růžicka, M. 304
- Almeida, A.M., see Cosso, R.G. 315
- Al-Shawi, M.K., see Philé, N. 41
- Altendorf, K., see Aldag, I. 26
- Althage, M. and Rydström, J.
Cross-linking of transmembrane helices in proton-translocating nicotinamide nucleotide transhydrogenase from *Escherichia coli*. Implications for the structure of the membrane domain 170
- Althage, M., see Karlsson, J. 186
- Alves-Guerra, M.C., see Couplan, E. 253
- Alves-Guerra, M.-C., see Pecqueur, C. 258
- Alziari, S., see Debiase, R. 324
- Anderka, O., see Stroh, A. 73
- Anderka, O., see Ritter, M. 227
- André, F., see Minoletti, C. 11
- André, F., see Sigalat, C. 47
- Andreu, P., see Pariselli, F. 322
- Andrienko, T., see Saks, V. 305
- Andrienko, T.N., Orosco, A., Kuznetsov, A.V., Kaambre, T., Sikk, P., Usson, Y. and Saks, V.A.
Control of mitochondrial function in permeabilized cardiac fibers by the calcium-induced sarcomere contraction 274
- Anemuller, S., see Falke, R. 123
- Antosson, B., see Pariselli, F. 322
- Aoyama, H., see Muramoto, K. 112
- Appaix, F., Usson, Y., Olivares, J. and Saks, V.
Confocal immunofluorescence microscopic study of mitochondrial–cytoskeletal interactions in isolated cardiomyocytes 275
- Appaix, F., see Saks, V. 305
- Appoldt, Y., see vonBallmoos, C. 52
- Arechaga, I. and Walker, J.E.
Structural studies of the membrane domain of bovine F₁F₀-ATP synthase 12
- Arechaga, I., see Ledesma, A. 267
- Arese, M., see Mastronicola, D. 308
- Argaud, L., see Gateau-Roesch, O. 284
- Arselin, G., see Paumard, P. 51
- Augereau, O., Boude, N. and Dachary-Prigent, J.
Influence of H₂O₂ on protein phosphorylation in mitochondria isolated from rat brain and muscle. Consequences on oxydative phosphorylation 276
- Averet, N., see Pählman, I.-L. 159
- Axel, M., see Nicolas, G. 124
- Azarkina, N. and Konstantinov, A.A.
Stimulation of menaquinone-dependent electron transfer in the respiratory chain of *Bacillus subtilis* by membrane energization 148
- Böehm, A., Zhang, J., Mäntele, W., Gennis, R.B. and Hellwig, P.
FTIR spectroscopic evidence for the presence of acidic residues in the vicinity of the quinone and the oxygen binding site in cytochrome *bd* oxidase from *E. coli* 81
- Börsch, M., Diez, M., Zimmermann, B. and Gräber, P.
Stepwise rotation of the γ -subunit in reconstituted EF₀F₁ H ATP synthase observed by inter-subunit single-molecule FRET 14
- Böttcher, B., see Domgall, I. 15
- Böttcher, B., Scheide, D., Hesterberg, M., Nagel-Steger, L. and Friedrich, T.
A novel, enzymatically active conformation of the *Escherichia coli* NADH:ubiquinone oxidoreductase (Complex I) 175
- Babcock, G.T., see Hillier, W. 88
- Backgren, C., Verkhovskiy, M.I., Puustinen, A. and Wikström, M.
Are there specific electron transfer pathways in cytochrome *c* oxidase? 79
- Backgren, C., see Tuukkanen, A. 109
- Baggetto, L., see Marco, S. 44
- Bagramyan, K., Hakobyan, K., Zakharyan, E., Kirakosyan, G., Mnatsakanyan, N. and Trchounian, A.
Relation of *Escherichia coli* membrane proton conductivity with membrane and redox potential 56
- Bagramyan, K., see Trchounian, A. 143
- Bagramyan, K.A., see Trchounian, A.A. 57
- Bakiene, E., see Daugelavičius, R. 150
- Bald, D., see Groth, G. 13
- Baldus, M., see Bartoschek, S. 216
- Bamford, D.H., see Daugelavičius, R. 150
- Bandeiras, T.M., Gomes, C.M., Melo, A.M.P., Kletzin, A. and Teixeira, M.
Covalently bound FMN in archaeal type-II NADH dehydrogenases 171
- Baptista, A.M., see Pereira, M.M. 100
- Baracca, A., see Solaini, G. 312
- Barone, M.C., see Giuffrè, A. 86

- Barone, M.C., see Mastronicola, D. 308
- Barquera, B., Morgan, J.E., Lukoyanov, D., Scholes, C.P., Gennis, R.B. and Nilges, M.J.
Characterization of the flavin radical of Na-translocating NADH:ubiquinone oxidoreductase from *Vibrio cholerae* 172
- Bartoschek, S., Luca, S., Dröse, S., Brandt, U., Roy D.Lancaster, C., Baldus, M. and Griesinger, C.
Conformations of the ubiquinones in the doubly occupied Q_o/Q_p-pocket of the cytochrome bc₁ complex provided by solid state NMR measurements 216
- Bathany, K., see Paumard, P. 51
- BazJackson, J., see Singh, A. 202
- BazJackson, J., see vanBoxel, G.I. 204
- Beattie, D.S. and Fang, J.
Production of superoxide radicals by alternative NADH dehydrogenases of yeast and trypanosome mitochondria 173
- Beauvoit, B., see Deveau, C. 151
- Behrendt, M., see Jarmuszkiewicz, W. 290
- Belevich, I., Verkhovsky, M. and Wikström, M.
Proton pumping on cytochrome *c* oxidase re-reduction 80
- Berhe, A., see Lundh, K.I. 257
- Bernard, B., see Pflieger, D. 153
- Bernardi, P., see Milanesi, E. 325
- Bernardi, P., see Penzo, D. 326
- Bertsova, Y.V.
The role of the different respiratory chain enzymes of *Azotobacter vinelandii* in the respiratory protection 141
- Bessoule, J.-J., see Priault, M. 294
- Bi, Y., see Cipriano, D.J. 18
- Bigard, A.X., see Couplan, E. 248
- Bighetti, E.J.B., see Oliveira, H.C.F. 299
- Blanck, T.J.J., see Mastronicola, D. 308
- Blasco, F., see Magalon, A. 66
- Bloch, D.A., see Gupta, O.A. 230
- Bloch, D.A., see Gupta, O.A. 243
- Boekema, E.J., see Lolkema, J.S. 38
- Bogachev, A.V., Ruuge, E.K., Wikström, M. and Verkhovsky, M.I.
Kinetics of the spectral changes during reduction of the Na-motive NADH:quinone oxidoreductase from *Vibrio harveyi* 210
- Bohmont, C., see Cecchini, G. 126
- Boltz, K., see Frasc, W.D. 22
- Bonnefoy, N., see Duvezin-Caubet, S. 19
- Bonnefoy, V., see Brasseur, G. 217
- Borghese, R., see Borsetti, F. 242
- Borisov, V.B., Rappaport, F., Zhang, J., Gennis, R.B. and Konstantinov, A.A.
Heme-heme and heme-ligand interactions in a binuclear cytochrome *bd* oxygen-reducing site studied by nanosecond laser absorption spectroscopy 113
- Borsetti, F., RobertaRandi, M., Borghese, R. and Zannoni, D.
Reduction of tellurite to elemental tellurium and its effect on both membrane redox components and electron transport of *Rhodobacter capsulatus* photosynthetically grown cells 242
- Borutaite, V., Jekabsone, A. and Brown, G.
Nitric oxide and calcium together inactivate mitochondrial complex I and induce cytochrome *c* release 277
- Bostina, M., Zickermann, V., Brandt, U. and Radermacher, M.
Subunit arrangement in Complex I: an immuno-electron microscopy study 174
- Bostina, M., see Peng, G. 198
- Bostina, M., see Zickermann, V. 207
- Boubekeur, S., see Pählman, I.-L. 159
- Boude, N., see Augereau, O. 276
- Bouillaud, F., see Couplan, E. 248
- Bouillaud, F., see Couplan, E. 253
- Bouillaud, F., see Pecqueur, C. 258
- Bouillaud, F.
UCP1 and UCP2 in mice 273
- Bouneau, L., see leMaire, M. 36
- Bourges, I., MoussondeCamaret, B. and Issartel, J.-P.
Characterization of the assembly pathway of human mitochondrial complex I 62
- Bouzahir-Sima, L., see Liebl, U. 155
- Brändén, M., Namslauer, A., Sigurdson, H. and Brzezinski, P.
Reduction of heme *a*₃ in cytochrome *c* oxidase is coupled to protonation of a heme *a*₃-ligated hydroxide molecule 82
- Brèthes, D., see Fronzes, R. 23
- Brèthes, D., see Venard, R. 29
- Brèthes, D., see Paumard, P. 51
- Bragin, D., see Kadziauskas, J. 152
- Brandolin, G., see Dassa, E. 249
- Brandolin, G., see Gonzalez, C. 252
- Brandt, U., see Bostina, M. 174
- Brandt, U., see Eschemann, A. 177
- Brandt, U., see Fisher, N. 179
- Brandt, U., see Garofano, A. 182
- Brandt, U., see Kerscher, S. 187
- Brandt, U., see Maly, Th. 191
- Brandt, U., see Zickermann, V. 207
- Brandt, U., see Zwicker, K. 208
- Brandt, U., see Bartoschek, S. 216
- Brasseur, G., Bruscella, P., Bonnefoy, V. and Lemesle-Meunier, D.
The bc₁ complex of the iron-grown acidophilic chemolithotrophic bacterium *Acidithiobacillus ferrooxidans* functions in the reverse but not in the forward direction. Is there a second bc₁ complex? 217
- Brasseur, G., Lemesle-Meunier, D. and Meunier, B.
Q_o site deficiency can be compensated by extragenic mutations in the hinge region of the FeS Rieske protein in the *Saccharomyces cerevisiae* bc₁ complex 218
- Breton, J., see Iwaki, M. 89
- Breton, J., see Fisher, N. 179
- Breton, J., see Giotto, L. 220
- Brettel, K., see Gong, X.-M. 234
- Brown, A., Hall, A. and Meunier, B.
Construction and characterisation of yeast mutants with modified Q_o and Q_i sites in cytochrome *b* 219
- Brown, G., see Borutaite, V. 277
- Brunner, J., see vonBallmoos, C. 52
- Brunori, M., see Giuffrè, A. 86
- Brunori, M., see Mastronicola, D. 308
- Bruscella, P., see Brasseur, G. 217
- Brzezinski, P., see Brändén, M. 82
- Brzezinski, P., see Gilderson, G. 85
- Brzezinski, P., see Larsson, G. 91
- Brzezinski, P., see Namslauer, A. 97
- Budihardjo, I., see Pariselli, F. 322
- Bunoust, O., see Pählman, I.-L. 159
- Buntinas, L., Dahlem, Y., Krippeit-Drews, P., Drews, G. and Siemen, D.
Activity of an inner mitochondrial membrane channel reduced by methyl pyruvate 310
- Burbenskaya, N.M., see Nartsissov, Ya.R. 319
- Byrne, B., see Horsefield, R. 131
- Byrne, B., see Jormakka, M. 132
- Camougrand, N., Velours, G. and Manon, S.
Mitochondrial biogenesis, aging and oxidative stress in *Saccharomyces cerevisiae*: investigation on the function of Uth1p 278
- Camougrand, N., see Priault, M. 294
- Cannon, B., see Mracek, T. 163
- Cannon, B., see Shabalina, I.G. 262
- Capaldi, R., see Rossignol, R. 303
- Carbajo, R.J., see Kellas, F.A. 31
- Carbajo, R.J., see Kellas, F.A. 33
- Carbajo, R.J., see Silvester, J.A. 48
- Cardol, P., Matagne, R.F. and Remacle, C.

- Complex I assembly in mutants of *Chlamydomonas reinhardtii* defective in mitochondria-encoded ND1, ND4, ND5 and ND6 subunits 199
- Cardol, P., Gloire, G., Matagne, R.F., Remacle, C. and Franck, F.
Relation between mitochondrial oxidative phosphorylation and photosynthetic activity in respiratory-deficient mutants of *Chlamydomonas reinhardtii* 233
- Carelli, V., see Dabbeni-Sala, F. 156
- Carelli, V., see Solaini, G. 312
- Carmeli, C., see Gong, X.-M. 234
- Carrière, A., Fernandez, Y., Rigoulet, M., Pénicaud, L. and Casteilla, L.
Mitochondrial reactive oxygen species as negative regulators of white adipose tissue development 279
- Cassan, N., Hirasawa, M., Lagoutte, B., Knaff, D.B. and Setif, P.
Study of interaction and electron transfer between the ferredoxin and two ferredoxin dependent enzymes: ferredoxin NADP reductase and nitrite reductase 235
- Cassard-Doulcier, A.M., see Couplan, E. 248
- Casselyn, M., see Gabriel, B. 321
- Casteilla, L., see Carrière, A. 279
- Cecchini, G., see Rothery, R.A. 125
- Cecchini, G., see Maklashina, E. 192
- Cecchini, G., Yankovskaya, V., Sher, Y., Bohmont, C. and Maklashina, E.
Quinone binding sites in succinate dehydrogenase and fumarate reductase from *Escherichia coli* 126
- Cecchini, G., see Horsefield, R. 131
- Cesura, A., see Milanesi, E. 325
- Chaban, Y., see Lolkema, J.S. 38
- Chabi, B., Johnson, G. and Stepien, G.
Metabolic and genetic alterations of mitochondrial oxidative phosphorylation in aging 149
- Chaignepain, S., see Paumard, P. 51
- Chami, M., see Marco, S. 44
- Chami, M., see Lévy, D. 154
- Chasen, C., see Finazzi, G. 63
- Chauvin, C., DeOliveira, F., Ronot, X., Mousseau, M., Leverve, X. and Fontaine, E.
Rotenone inhibits the mitochondrial permeability transition-induced cell death in U937 and KB cells 176
- Chauvin, C., see Guigas, B. 288
- Chen, Y., see NorbertGellerich, F. 285
- Chen, Y., Wei, Y.-H., Loppnow, H., Lochmüller, H., Wussling, M., Zierz, S. and Gellerich, F.N.
Flux control of cytochrome-c-oxidase in intact human muscle cells and in cybrids with common deletion 323
- Cherepanov, D., see Kozlova, M. 35
- Cherepanov, D.A., see Feniouk, B.A. 21
- Cherepanov, D.A., see Feniouk, B.A. 40
- Cherepanov, D.A. and Mulikidjanian, A.Y.
Identification of structural attributes specific to proton pumps 71
- Chevallet, M., see Albracht, S.P.J. 169
- Cipriano, D.J., Krauss, P.R., Bi, Y. and Dunn, S.D.
Mutational analysis of the dimerization domain of the *b* subunit of ATP synthase 18
- Clifton, R., see Glaser, E. 64
- Contessi, S., see Lippe, G. 37
- Contreras, M., see EdgardoEscamilla, J. 128
- Cook, G.M., Keis, S., Matthey, U., Kaim, G., Morgan, H.W. and Dimroth, P.
Purification, characterization and reconstitution of the F_1F_0 -ATP synthase from an alkaliphilic, thermophilic *Bacillus* sp. strain TA2.A1 16
- Corre, F., see leMaire, M. 36
- Cosso, R.G., Turim, J., Nantes, I.L., Almeida, A.M., DiMascio, P. and Vercesi, A.E.
Mitochondrial permeability transition induced by chemically generated singlet oxygen 315
- Costantini, P., see Milanesi, E. 325
- Cotton, N.P.J., see Singh, A. 202
- Cotton, N.P.J., see vanBoxel, G.I. 204
- Coulary, B., see Soubannier, V. 49
- Couplan, E., Gelly, C., Gubern, M., Fleury, C., Gonzalez-Barroso, M.M., Quesson, B., Silberberg, M., Thiaudière, E., Mateo, P., Longchamp, M., Levens, N., deMontrion, C., Ortmann, S., Klaus, S., Cassard-Doulcier, A.M., Ricquier, D., Bigard, A.X., Diolez, P. and Bouillaud, F.
Expression of UCP1 in mouse muscle selectively affects muscles at rest 248
- Couplan, E., Gonzalez-Barroso, M.M., Alves-Guerra, M.C., Ricquier, D., Gubern, M. and Bouillaud, F.
Functional studies of UCP2 using mitochondria of mice which have been made null for the *Ucp2* gene 253
- Couplan, E., see Pecqueur, C. 258
- Cowdhury, S.K.R., see Lapathitis, G. 318
- Crichton, P.G., see Affourtit, C. 78
- Crichton, P.G., Affourtit, C., Albury, M.S. and Moore, A.L.
Exploring the role of tyrosine residues in the reaction of the plant alternative oxidase with ubiquinone 83
- Cuni, A. and Rappaport, F.
Estimation of the photo-induced and/or permanent electric potential across the membranes of *Rhodospseudomonas viridis* 127
- Dabbeni-Sala, F., Napoli, E., Floreani, M., Vergani, L., Valente, L., Carelli, V. and Martinuzzi, A.
Antioxidant capacity in cybrids harboring the three mtDNA mutations related to complex I subunits and primarily associated with Leber's (LHON) 156
- Dachary-Prigent, J., see Augereau, O. 276
- Dahlem, Y., see Buntinas, L. 310
- Daldal, F., see Osyczka, A. 225
- Damon, M., Lombardi, A., Vincent, A., Fillaut, M. and Herpin, P.
Differential effect of triiodothyronine on mitochondrial energy coupling in piglet glycolytic and oxidative muscles 280
- Dassa, E., Gonzalez, C., Dianoux, A.-C. and Brandolin, G.
The *Saccharomyces cerevisiae* ATP/ADP carrier fused to cytochrome *c* is functional 249
- Dassa, E., see Gonzalez, C. 252
- Daugelavičius, R., Bakiene, E. and Bamford, D.H.
Factors affecting the binding of lipophilic anions to biological and artificial membranes 150
- Debise, R., Farge, G., Touraille, S. and Alziari, S.
Respiratory complex activities in a mutant strain of *Drosophila subobscura* 324
- Debska, G., Skalska, J., Kicinska, A. and Szewczyk, A.
Interactions of potassium channel effectors with mitochondria 268
- deFaria, E.C., see Oliveira, H.C.F. 299
- Degaspari, G.R., see Oliveira, H.C.F. 299
- delArenalMena, I.P. and GuevaraFlores, A.
Hydrogen peroxide production during the mitochondrial respiration in the *Taenia crassiceps* metacestode 281
- Delavoie, F., Giatzakis, C., Li, H., Robert, J.-C., Yao, Z.-X., Peranzi, G., Vidic, B., Papadopoulos, V. and Lacapere, J.-J.
Peripheral-type benzodiazepine receptor polymerisation leads to drug ligand activated cholesterol transport 256
- DeMarcosLousa, C., Trézéguet, V. and Lauquin, Guy J.-M.
The human mitochondrial adenine nucleotide carriers: kinetic properties and importance of the N-terminus region for their expression in yeast 250
- deMontrion, C., see Couplan, E. 248
- DeOliveira, F., see Chauvin, C. 176
- Derrick, P.J., see leMaire, M. 36
- Deryabina, Y.I., see Zvyagilskaya, R.A. 264
- Deschauer, M., see NorbertGellerich, F. 285
- Deveaud, C., Beauvoit, B., Hagry, S. and Rigoulet, M.

- Effects of the treatment by nucleoside analogs of reverse transcriptase (NRTIs) on mitochondrial function of adipose superficial and deep tissues of rats 151
- Devenish, R.J., see Gavin, P.D. 17
- Devenish, R.J., see Khan, M.A. 34
- deVitry, C., see Finazzi, G. 63
- Di Lisa, F., see Penzo, D. 326
- Dianoux, A.-C., see Dassa, E. 249
- Dianoux, A.-C., see Gonzalez, C. 252
- Diez, M., see Börsch, M. 14
- DiMascio, P., see Cosso, R.G. 315
- Dimroth, P., see Cook, G.M. 16
- Dimroth, P., see Meier, T. 39
- Dimroth, P., see vonBallmoos, C. 52
- Dimroth, P., see Wild, M.R. 74
- Dimroth, P., see Gemperli, A.C. 183
- Dinarieva, T.Yu., see Strom, E.V. 117
- Dinse, K.P., see Grimaldi, S. 87
- Diolez, P., see Couplan, E. 248
- Diolez, P., see Pariselli, F. 322
- DiPancrazio, F., see Lippe, G. 37
- DiPietro, A., see Marco, S. 44
- diRago, J.-P., see Duvezin-Caubet, S. 19
- diRago, J.-P., see Fronzes, R. 23
- D'Itri, E., see Giuffrè, A. 86
- Domgall, I., Venzke, D., Lüttge, U., Ratajczak, R. and Böttcher, B.
Three-dimensional map of a plant V-ATPase based on electron microscopy 15
- Douette, P., Duyckaerts, C., Galleni, M. and Sluse, F.E.
Heterologous expression of the uncoupling protein: his tagging or fusion with MBP to improve the purification of the recombinant protein 251
- Dröse, S., see Kerscher, S. 187
- Dröse, S., see Zwicker, K. 208
- Dröse, S., see Bartoschek, S. 216
- Drahota, Z., Mracek, T., Vojtiskova, A. and Houstek, J.
Hydrogen peroxide production by mitochondrial glycerophosphate dehydrogenase and its activation by ferricyanide 317
- Drews, G., see Buntinas, L. 310
- Du, Z., see Tucker, W.C. 27
- Duarte, A., see Monteiro, P. 296
- Duarte, A., see Moura, J.P. 297
- Duarte, A., see Silva, S.I. 311
- Dujardin, G., see Saint-Georges, Y. 65
- Dujardin, G., see Pflieger, D. 153
- Dunn, S.D., see Cipriano, D.J. 18
- Dupuis, A., see Albracht, S.P.J. 169
- Duvezin-Caubet, S., Bonnefoy, N. and diRago, J.-P.
A novel mitochondrial genome as a tool for the genetic analysis of *S. cerevisiae* F₁-F₀ ATP synthase 19
- Duyckaerts, C., see Douette, P. 251
- Edgardo Escamilla, J., Flores, M., González, B. and Contreras, M.
Role of the endogenous ubiquinone as electron acceptor of the periplasmic PQQ-dehydrogenases of *Acetobacter diazotrophicus* PAL5 128
- Eells, J., see Wong-Riley, M. 111
- Eger, O., see Genswein, R. 46
- Egorov, M., see Tigerström, A. 203
- Elger, C.E., see Kunz, W.S. 189
- Elger, C.E., see Kudin, A.P. 292
- Eschemann, A., Kerscher, S.J. and Brandt, U.
Alternative NADH:ubiquinone oxidoreductase of *Yarrowia lipolytica* 177
- Esteves, T., see Oliveira, P.J. 300
- Faber, B.W., see Albracht, S.P.J. 169
- Fabian, M., Jancura, D. and Palmer, G.
Interaction of ligands with cytochrome *a* in fully oxidized bovine cytochrome *c* oxidase 84
- Falke, R. and Anemuller, S.
Characterization of the succinate-quinone-reductase of the thermoacidophilic archaeon *Thermoplasma acidophilum* 123
- Falson, P., see leMaire, M. 36
- Fang, J., see Beattie, D.S. 173
- Farge, G., see Debise, R. 324
- Faustin, B., Rossignol, R., Rocher, C., Malgat, M., Mazat, J.P. and Letellier, T.
Biochemical threshold effect and tissue specificity: molecular basis and case of the adenine nucleotide translocator 282
- Faustin, B., see Rocher, C. 302
- Feniouk, B., see Kozlova, M. 35
- Feniouk, B.A., Cherepanov, D.A., Junge, W. and Mulikidjanian, A.Y.
Coupling mechanism in F₀F₁-ATP synthase of *Rhodobacter capsulatus*: influence of the catalytic F₁ part on proton conduction through F₀. 21
- Feniouk, B.A., Cherepanov, D.A., Junge, W. and Mulikidjanian, A.Y.
Anisotropy of proton fluxes at the membrane/water interface and its role in ATP synthesis by *Rhodobacter capsulatus* chromatophores 40
- Ferguson-Miller, S., see Hillier, W. 88
- Ferguson-Miller, S., see Schmidt, B. 104
- Fernandes, A.S., Pereira, M.M. and Teixeira, M.
The NADH:menaquinone oxidoreductase from the thermohalophilic bacterium *Rhodothermus marinus* 178
- Fernandez, Y., see Carrière, A. 279
- Ferreira, F.M., Oliveira, P.J., Seica, R., Moreno, A.J., Palmeira, C.M. and Santos, M.S.
Mitochondrial permeability transition and diabetes 283
- Fillaut, M., see Damon, M. 280
- Finazzi, G., Chasen, C., Kallas, T., Wollman, F.-A. and deVitry, C.
In vivo measurements of the energetic of tat protein transport into and across thylakoid membranes: translocation mutants of the Rieske protein 63
- Finel, M., see Stroh, A. 73
- Finel, M., see Kervinen, M. 188
- Finel, M., see Kervinen, M. 301
- Fisher, N., Hirst, J., Shannon, R.J., Garofano, A., Breton, J., Brandt, U. and Rich, P.R.
ATR-FTIR difference spectroscopy of mitochondrial Complex I from beef heart and *Yarrowia lipolytica* 179
- Fisher, N., see Lawrence, R. 190
- Flemming, D., Hellwig, P. and Friedrich, T.
Identification of a tyrosine as part of the proton pathway coupled with the redox reaction of cluster N2 180
- Fleury, C., see Couplan, E. 248
- Floek, D., see Olkhova, E.V. 98
- Floreani, M., see Dabbeni-Sala, F. 156
- Florens, L., see Schmidt, B. 104
- Flores, M., see EdgardoEscamilla, J. 128
- Fontaine, E., see Chauvin, C. 176
- Fontaine, E., see Guigas, B. 288
- Forrest, L., see Kellas, F.A. 31
- Forte, E., see Giuffrè, A. 86
- Forte, E., see Mastronicola, D. 308
- Français, S., Nouette-Gaulain, K., Malgat, M., Mazat, J.P. and Sztark, F.
Effects of bupivacaine on mitochondrial ATP-sensitive potassium channel 162
- Francis, B., see Nicolas, G. 124
- Franck, F., see Cardol, P. 233
- Frasch, W.D., Boltz, K., Greene, M., Lowrey, D., Rodriguez, L. and Ianelli, G.
Thermodynamic properties of residues that effect ligation of the F₁-ATPase metal cofactor 22
- Friedrich, T., see Böttcher, B. 175
- Friedrich, T., see Flemming, D. 180

- Friedrich, T., see Hellwig, P. 184
- Friedrich, T., see Uhlmann, M. 212
- Fritzsche, G., see Peng, G. 198
- Frixon, C., see Magalon, A. 66
- Fronzes, R., diRago, J.-P., Velours, J. and Br  thes, D.
Topological and functional study of subunit *h* of the F1-Fo ATP
synthase of *Saccharomyces cerevisiae* 23
- Futai, M., see Iko, Y. 30
- Futai, M., see Nishio, K. 42
- Futai, M., see Wada, Y. 53
- G  rard, G., see Nicolas, G. 124
- G  decke, A., see Liimatta, E. 289
- G  ran Karlsson, B., see Johansson, C. 197
- Gabriel, B., Sureau, F., Casselyn, M., Teissi  , J. and Xavier Petit, P.
Retroactive pathway involving mitochondria in electro-loaded cyto-
chrome *c*-induced apoptosis and protective properties of Bcl-2 and Bcl-
XL 321
- Gainutdinov, T.M., see Gizatullina, Z.Z. 286
- Galkin, A.S. and H  gerh  ll, C.
Proton-translocating activity of NADH:ubiquinone oxidoreductase from
Rhodobacter capsulatus 181
- Galkin, M.A., Nazarova, G.N. and Malyan, A.N.
ATP-induced energy-dependent inhibition of photophosphorylation 24
- Galkin, M.A., Vaillier, J., Velours, J. and Haraux, F.
Interconversion between different states of the yeast mitochondrial
F₀F₁-ATPase triggered by the natural inhibitor protein (IF1) in the
presence of the protonmotive force 25
- Galleni, M., see Douette, P. 251
- G  rcia, M., see Ledesma, A. 267
- Garofano, A., see Fisher, N. 179
- Garofano, A., Okun, P., Kersch, S. and Brandt, U.
Two aspartic acid residues in subunit PSST are essential for catalytic
activity in complex I of *Yarrowia lipolytica* 182
- Gateau-Roesch, O., Argaud, L., Loufoua, J., Gomez, L., Lerme, F.,
Louisot, P. and Ovide, M.
Preconditioning alters mitochondrial permeability transition pore open-
ing in the rabbit heart 284
- Gavin, P.D., Devenish, R.J., Nagley, P. and Prescott, M.
Fluorescence resonance energy transfer (FRET) reveals a role for OSCP
in stabilising the conformation of F₁F₀-ATP synthase during rotation in
Saccharomyces cerevisiae 17
- Geijer, P., Shaw, G. and Weiner, J.H.
Investigation of the topology and menaquinol binding of DMSO
reductase in *Escherichia coli* 129
- Gellerich, F.N., see Chen, Y. 323
- Gelly, C., see Couplan, E. 248
- Gelly, C., see Pecqueur, C. 258
- Gemperli, A.C., Dimroth, P. and Steuber, J.
Sodium cycle mediates energy coupling between complex I and ATP
synthase 183
- Gennis, R., see Siletsky, S. 114
- Gennis, R.B., see B  hm, A. 81
- Gennis, R.B., see Morgan, J.E. 95
- Gennis, R.B., see Namslauer, A. 97
- Gennis, R.B., see Borisov, V.B. 113
- Gennis, R.B., see Barquera, B. 172
- Genswein, R., Eger, O., Stolz, M., Kagawa, Y. and Sch  fer, H.-J.
Photoaffinity labeling of ATP synthase by mono- and bifunctional 3'-
biotinylated 8-azidoadenine nucleotides 46
- George, P., Louisot, P. and Levrat, C.
Study of the creatine kinase role in the cellular resistance to tumor
necrosis factor-   293
- Giatzakis, C., see Delavoie, F. 256
- Gilderson, G. and Brzezinski, P.
Cytochrome *c* oxidase—proton pumping during single turnover 85
- Gilkerson, R., see Rossignol, R. 303
- Giordano, G., see Magalon, A. 66
- Giotta, L., Iwaki, M., Breton, J., Akinsiku, A.O., Sch  gger, H. and
Rich, P.R.
Redox transitions in bovine cytochrome *bc*₁ complex studied by
perfusion induced ATR-FTIR difference spectroscopy 220
- Giraud, M.-F., see Venard, R. 29
- Giuffr  , A., Barone, M.C., Brunori, M., D'Itri, E., Forte, E., Ludwig, B.,
Malatesta, F., M  ller, H. and Sarti, P.
The formation of intermediate E in cytochrome *c* oxidase causes
structural changes at Cu_B and promotes the reaction with NO 86
- Giuffr  , A., see Mastronicola, D. 308
- Gizatullina, Z.Z., Achmatov, M.S., Gainutdinov, T.M. and Sayfullina, G.L.
Influence of insulin, insulin-dependent cytoplasmic regulator on energy
metabolism of rat thymocytes 286
- Glaser, E., Rudhe, C., Clifton, R., Pavlov, P. and Whelan, J.
Domain structure of the dual targeted pea glutathione reductase signal
peptide 64
- Glaser, E., see St  hl, A. 67
- Gloire, G., see Cardol, P. 233
- Goffeau, A., see Marco, S. 44
- Gomes, C.M., see Lemos, R.S. 140
- Gomes, C.M., see Bandejas, T.M. 171
- Gomes-Laranjo, J.C.E., WongFongSang, H.W., Kraayenhof, R. and
Torres-Pereira, J.M.G.
Acclimation of chloroplasts from north- and south-exposed canopy
sectors of chestnut (*Castanea sativa* Mill.) 236
- Gomez, L., see Gateau-Roesch, O. 284
- Gomis, J.-M., see Sigalat, C. 47
- Gon  alves, L., see Monteiro, P. 296
- Gon  alves, L., see Moura, J.P. 297
- Gon  alves, L., see Oliveira, P.J. 300
- Gon  alves, L., see Sard  o, V.A. 307
- Gon  alves, L., see Silva, S.I. 311
- Gong, X.-M., Brettel, K. and Carmeli, C.
Control of electron transport in Photosystem I by the iron—sulfur cluster
F_X in response to intra- and inter-subunit interactions 234
- Gonz  lez, B., see EdgardoEscamilla, J. 128
- Gonzalez, C., see Dassa, E. 249
- Gonzalez, C., Dassa, E., Dianoux, A.-C. and Brandolin, G.
Limited proteolysis of the membrane-embedded ADP/ATP carrier of
Saccharomyces cerevisiae mitochondria 252
- Gonzalez-Barroso, M.M., see Couplan, E. 248
- Gonzalez-Barroso, M.M., see Couplan, E. 253
- Gopta, O.A., Semenov, A.Y. and Bloch, D.A.
The temperature-dependency of the charge transfer kinetics in
cytochrome *bc*₁-complex of *Rhodobacter sphaeroides* chromatophores
230
- Gopta, O.A. and Bloch, D.A.
The inhibition of the proton transport in Zn(2+)-treated reaction centers
of *Rhodobacter sphaeroides* induces the kinetic isotope effect of the QB
reduction in chromatophores 243
- Goubern, M., see Couplan, E. 248
- Goubern, M., see Couplan, E. 253
- Gr  ber, P., see B  rsch, M. 14
- Gr  ber, P., see Turina, P. 50
- Gr  ber, G., see Rizzo, V.F. 28
- Granier, T., see vonBallmoos, C. 52
- Greene, M., see Frasch, W.D. 22
- Greie, J.-C., see Aldag, I. 26
- Grelaud-Coq, A., see Priault, M. 294
- Grgic, L., see Maly, Th. 191
- Griesinger, C., see Bartoschek, S. 216
- Grimaldi, S., MacMillan, F., Ostermann, T., Ludwig, B., Michel, H.,
Mogi, T., Miyoshi, H., Weiden, N., Dinse, K.P. and Prisner, T.F.
Q_H quinone binding pocket in quinol oxidases studied by EPR
spectroscopy 87
- Grischuk, Yu.V., see Muntyan, M.S. 118

- Grivennikova, V.G., Ushakova, A.V., Hägerhäll, C. and Vinogradov, A.D.
Proton translocation catalyzed by *Paracoccus denitrificans* NADH:quinone oxidoreductase (NDH-1) 209
- Groß, R., see Haas, A. 130
- Gromet-Elhanan, Z., see Tucker, W.C. 27
- Gross, R. and Simon, J.
Characterization of the respiratory nitrate reductase of *Wolinella succinogenes* 139
- Groth, G., Hisabori, T., Lill, H. and Bald, D.
Engineering F₁-ATPase from the thermophilic *Bacillus* PS3 sensitive to the phytopathogenic inhibitor tentoxin 13
- Gu, G., see Morgan, J.E. 95
- Guerrero, K., see Saks, V. 305
- Guevara Flores, A., see del Arenal Mena, I.P. 281
- Guigas, B., Chauvin, C., Fontaine, E. and Leverve, X.
Metformin prevents the mitochondrial permeability transition-induced cell death in KB cells 288
- Gustafsson, L., see Aguilaniu, H. 147
- Gustafsson, L., see Pålman, I.-L. 159
- Hägerhäll, C., see Galkin, A.S. 181
- Hägerhäll, C., see Mathiesen, C. 193
- Hägerhäll, C., see Roth, R. 200
- Hägerhäll, C., see Grivennikova, V.G. 209
- Haas, A., Sauer, U.S., Groß, R., Simon, J., Mäntele, W., Roy, C. and Lancaster, D.
Electrochemical and FTIR spectroscopic investigations of the quinol:fumarate reductase from *Wolinella succinogenes* 130
- Hagry, S., see Deveaud, C. 151
- Hakobyan, K., see Bagramyan, K. 56
- Hall, A., see Brown, A. 219
- Hamel, P., see Saint-Georges, Y. 65
- Haran, G., see Tucker, W.C. 27
- Haraux, F., see Minoletti, C. 11
- Haraux, F., see Galkin, M.A. 25
- Haraux, F., see Venard, R. 29
- Haraux, F., see Sigalat, C. 47
- Hassinen, I., see Kervinen, M. 188
- Hassinen, I., see Kervinen, M. 301
- Hassinen, I.E., see Liimatta, E. 289
- Haymond, S., see Hillier, W. 88
- Hebert, E., see Musatov, A. 96
- Heils, A., see Kunz, W.S. 189
- Heinze, H.-J., see Kudin, A.P. 292
- Hellwig, P., see Böehm, A. 81
- Hellwig, P., see Flemming, D. 180
- Hellwig, P. and Friedrich, T.
FT-IR spectroscopic characterization of the quinone binding site of the NADH:ubiquinone oxidoreductase (complex I) from *Escherichia coli* 184
- Hellwig, P., see Ritter, M. 227
- Helms, V., see Olkhova, E.V. 98
- Hernström, T., see Lagerstedt, J.O. 165
- Herpin, P., see Damon, M. 280
- Hesterberg, M., see Böttcher, B. 175
- Hill, P., Kessl, J., Meunier, B., Meshnick, S. and Trumpower, B.L.
Study of acquired resistance to atovaquone in *Pneumocystis carinii*, using yeast as a model system 221
- Hillier, W., Schmidt, B., Haymond, S., Mills, D., Babcock, G.T. and Ferguson-Miller, S.
FTIR difference spectra of cytochrome *c* oxidase reveal a coupling of histidine in the reduction cycle 88
- Hirasawa, M., see Cassan, N. 235
- Hirasawa, M., see Kuznetsova, S. 239
- Hirst, J., see Fisher, N. 179
- Hirst, J.
Mitochondrial NADH:ubiquinone oxidoreductase (complex I) 185
- Hisabori, T., see Groth, G. 13
- Hlavatá, L., Aguilaniu, H., Pichová, A. and Nyström, T.
How could mitochondria contribute to aging of Yeast *Saccharomyces cerevisiae*? 327
- Horsefield, R., Törnroth, S., Yankovskaya, V., Cecchini, G., Byrne, B. and Iwata, S.
Purification, crystallisation and preliminary crystallographic studies of succinate:ubiquinone oxidoreductase from *Escherichia coli* 131
- Hosler, J.P., see Sedláč, E. 137
- Houstek, J., see Pickova, A. 43
- Houstek, J., see Mracek, T. 163
- Houstek, J., see Drahot, Z. 317
- Houstek, J., see Lapathitis, G. 318
- Hryniewiecka, L., see Jarmuszkiewicz, W. 290
- Hunte, C., see Zickermann, V. 207
- Hunte, C. and Lange, C.
Crystal structure of the yeast cytochrome *bc*₁ complex with its bound substrate cytochrome *c* 215
- Hunte, C., see Palsdottir, H. 226
- Hunte, C., see Ritter, M. 227
- Hunte, C., see Wenz, T. 228
- Ianelli, G., see Frasch, W.D. 22
- Igarashi, K., see Kawano, M. 32
- Igarashi, Y., see Sambongi, Y. 138
- Iko, Y., Sambongi, Y., Iwamoto-Kihara, A., Saito, K., Wada, Y. and Futai, M.
Defective torque generation in the β Ser-174 to Phe mutant F1 and its suppression by second mutations 30
- Imai-Senga, Y., see Wada, Y. 53
- Inoue, H., see Kanazawa, H. 72
- Isakova, E.P., see Zvyagilskaya, R.A. 264
- Ishiwata, A., see Tanigawa, M. 108
- Issartel, J.-P., see Bourges, I. 62
- Issartel, J.-P., see Albracht, S.P.J. 169
- Iwaki, M., Breton, J. and Rich, P.R.
ATR-FTIR studies of catalytic intermediates of bovine cytochrome *c* oxidase 89
- Iwaki, M., see Giotto, L. 220
- Iwamoto-Kihara, A., see Iko, Y. 30
- Iwamoto-Kihara, A., see Nishio, K. 42
- Iwata, S., see Larsson, G. 91
- Iwata, S., see Horsefield, R. 131
- Iwata, S., see Jormakka, M. 132
- Jacobsson, A., see Shabalina, I.G. 262
- Jancura, D., see Fabian, M. 84
- Jarmuszkiewicz, W., see Sluse, F.E. 106
- Jarmuszkiewicz, W., Behrendt, M., Hryniewiecka, L. and Sluse, F.E.
Occurrence, properties and protein expression of uncoupling protein and alternative oxidase of *Dictyostelium discoideum* (Mycetozoa) during vegetative life and starvation-induced early development 290
- Jarmuszkiewicz, W., see Navet, R. 298
- Jasaitis, A., Verkhovsky, M.I. and Wikström, M.
Electrometric properties of a metastable form of oxidized cytochrome *c* oxidase 110
- Jassal, J., Lennon, A., Nixon, P. and Rich, P.
Pathways for control of the redox state of the thylakoid plastoquinone pool in the dark 237
- Jault, J.-M., see Marco, S. 44
- Ježek, J. and Ježek, P.
Anatomy of mitochondrial anion carrier sequences 254
- Ježek, P., see Ježek, J. 254
- Ježek, P., Škobisová, E., Urbánková, E. and Žáčková, M.
Interaction of mitochondrial uncoupling protein UCP2 with fatty acids and other ligands 255
- Ježek, P., see Růžička, M. 304

- Jekabsone, A., see Borutaite, V. 277
- Ji, H., Yeh, S.-R. and Rousseau, D.L.
Electron transfer in mixed valence cytochrome oxidase 102
- Jiménez-Jiménez, J., see Tomás, P. 261
- Jiménez-Jiménez, J., Ledesma, A. and Rial, E.
Systematic investigation of the uncoupling protein UCP1 by replacement with divergent UCP2 motifs 266
- Joel, W., see Nicolas, G. 124
- Johansson, C., Pedersen, A., Göran Karlsson, B. and Rydström, J.
Redox-sensitive loops D and E regulate NADP(H) binding in domain III and domain I–domain III interactions in proton-translocating *Escherichia coli* transhydrogenase 197
- Johansson, M.P., see Kaukonen, M. 90
- Johnson, G., see Chabi, B. 149
- Johnson, J., see Ohnishi, T. 196
- Joliot, A., see Joliot, P. 238
- Joliot, P. and Joliot, A.
Cyclic electron transfer in plant leaf 238
- Jormakka, M., Tomroth, S., Byrne, B. and Iwata, S.
Proton motive force generation through the redox loop: structure of formate dehydrogenase-N 132
- Junge, W., see Feniouk, B.A. 21
- Junge, W., see Kozlova, M. 35
- Junge, W., see Feniouk, B.A. 40
- Junge, W., see Klishin, S.S. 222
- Junge, W., see Voskoboinikova, N. 241
- Juodka, B., see Kadziauskas, J. 152
- Juul, B., see leMaire, M. 36
- Kühlbrandt, W., see Meier, T. 39
- Kaambre, T., see Andrienko, T.N. 274
- Kadziauskas, J., Sadauskaite, A., Bragin, D., Pimpe, E., Kirveliene, V. and Juodka, B.
On mitochondrial processes in apoptotic photosensitised cells 152
- Kagawa, Y., see Genswein, R. 46
- Kaim, G., see Cook, G.M. 16
- Kakinuma, Y., see Kawano, M. 32
- Kallas, T., see Finazzi, G. 63
- Kamauchi, S., see Kanazawa, H. 72
- Kameda, T., see Sambongi, Y. 138
- Kanazawa, H., Mitsui, K., Kamauchi, S., Nakamura, N., Ochi, F., Ohgaki, R. and Inoue, H.
Functional roles of conserved domains in the diverse hydrophilic carboxy-terminal halves of yeast Na/H antiporters (Nha1p) 72
- Kane, V., see Kellas, F.A. 31
- Karlsson, J., Althage, M., LagbergArkblad, E. and Rydström, J.
Cysteine scanning of helices 3, 9, 13 and 14 of domain II in *E. coli* transhydrogenase 186
- Karyakin, A.A., see Vygodina, T.V. 115
- Kashani-Poor, N., see Maly, Th. 191
- Katayama, Y., see Shimokata, K. 105
- Kaukonen, M., Verkhovsky, M., Johansson, M.P., Laakkonen, L. and Wikström, M.
Computational study of one and two electron reduced Complex IV 90
- Kaulen, A.D., see Siletsky, S. 114
- Kawahara, Y., see Sakamoto, J. 103
- Kawano, M., Igarashi, K., Yamato, I. and Kakinuma, Y.
Role of NtpI subunit in Na translocation by *Enterococcus hirae* V-ATPase 32
- Keegstra, W., see Lolkema, J.S. 38
- Keis, S., see Cook, G.M. 16
- Kellas, F.A., Forrest, L., Silvester, J.A., Kane, V., Carbajo, R.J., Runswick, M.J., Neuhaus, D. and Walker, J.E.
Interactions between peripheral stalk subunits 31
- Kellas, F.A., Carbajo, R.J., Runswick, M.J., Neuhaus, D. and Walker, J.E.
Structure of the OSCP subunit of bovine ATP synthase 33
- Kenmochi, A., see Yabunaka, H. 195
- Kersch, S., see Garofano, A. 182
- Kersch, S., Dröse, S. and Brandt, U.
Yarrowia lipolytica, a yeast genetic system to study mitochondrial complex I 187
- Kersch, S.J., see Eschemann, A. 177
- Kervinen, M., Pätsi, J., Finel, M. and Hassinen, I.
Studying the importance and role of two strictly conserved Glu residues within trans-membrane helices of the nuoK subunit (ND4L equivalent) of *E. coli* NDH-1 by site-directed mutagenesis 188
- Kervinen, M., Pätsi, J., Finel, M. and Hassinen, I.
Superoxide detection in membrane preparations by lucigenin is hampered by several pitfalls—coelenterazine performs better, although not ideally 301
- Kessl, J., see Hill, P. 221
- Keyhani, E., Khodagholi, F. and Minai-Tehrani, D.
Thermal stability of cytochrome *d*–cyanide complex in *Salmonella typhimurium* 142
- Khan, M.A., Stephens, A.N., Nagley, P. and Devenish, R.J.
Allotopic expression of yeast mitochondrially encoded ATP synthase subunits 8 and 6 34
- Khodagholi, F., see Keyhani, E. 142
- Kicinska, A., see Debska, G. 268
- Kirakosyan, G., see Bagramyan, K. 56
- Kirichenko, A., Pfizner, U., Ludwig, B. and Konstantinov, A.
Ca-binding characteristics of D477A mutant of cytochrome *c* oxidase from *Paracoccus denitrificans* 116
- Kirveliene, V., see Kadziauskas, J. 152
- Klaus, S., see Couplan, E. 248
- Kletzin, A., see Bandejas, T.M. 171
- Klingenberg, M.
Regulation of uncoupling proteins 247
- Klishin, S.S., Junge, W. and Mulikidjanian, A.Y.
Flash-induced turnover of the cytochrome *bc*₁-complex in chromatophores of *Rhodobacter capsulatus*: the *bc*₁-dimer is not able to accumulate more than one electron on its two high-potential *b_h* hemes 222
- Knaff, D.B., see Cassan, N. 235
- Knaff, D.B., see Kuznetsova, S. 239
- Knorre, D., see Kozlova, M. 35
- Kobayashi, K., see Mogi, T. 94
- Kobayashi, Y., see Sambongi, Y. 138
- Komissarova, I.A., see Nartsissov, Ya. R. 319
- Kongas, O., Wagner, M.J., Yuen, T.L., ter Veld, F., van Beek, J.H.G.M. and Krab, K.
How sensitive are in situ cardiac mitochondria to stimulation by ADP? 291
- Konstantinov, A., see Siletsky, S. 114
- Konstantinov, A., see Kirichenko, A. 116
- Konstantinov, A.A., see Borisov, V.B. 113
- Konstantinov, A.A., see Vygodina, T.V. 115
- Konstantinov, A.A., see Azarkina, N. 148
- Korzeniewski, B., see Aimar, M. 295
- Kotlyar, A.B., see Maklashina, E. 192
- Kozlova, M., Feniouk, B., Knorre, D., Cherepanov, D., Junge, W. and Mulikidjanian, A.Y.
H-ATP-synthase of *Rhodobacter capsulatus*: proton transfer through the membrane F_O part of the enzyme 35
- Kraayenhof, R., see Gomes-Laranjo, J.C.E. 236
- Krab, K., see Kongas, O. 291
- Krauss, P.R., see Cipriano, D.J. 18
- Krippel-Dreus, P., see Buntinas, L. 310
- Krugvon Nidda, T., see Meier, T. 39
- Kudin, A.P., Vielhaber, S., Kudina, T.A., Heinze, H.-J., Elger, C.E. and Kunz, W.S.
Mitochondrial defect and effects of creatine on the survival of hippocampal neurons with defective mitochondria in an animal model of epilepsy 292

- Kudin, A., see Kunz, W.S. 189
- Kudina, T., see Kunz, W.S. 189
- Kudina, T.A., see Kudin, A.P. 292
- Kunz, W.S., Vielhaber, S., Kudin, A., Varlamov, D., Kudina, T., Oehring, R., Rebstock, J., Heils, A. and Elger, C.E.
Bioenergetic consequences of homoplasmic LHON mutations 189
- Kunz, W.S., see Kudin, A.P. 292
- Kurokawa, T., Sakamoto, J., Nogushi, S. and Sone, N.
The new type of respiratory chain in the amino acid-producing Gram-positive bacterium *Corynebacterium glutamicum* 223
- Kuznetsov, A.V., see Andrienko, T.N. 274
- Kuznetsov, A.V., see Saks, V. 305
- Kuznetsova, S., Hirasawa, M., Lagoutte, B., Knaff, D.B. and Sétif, P.
The intermediates in nitrite reduction to ammonia by ferredoxin-dependent plant nitrite reductase 239
- Lévi-Meyrueis, C., see Pecqueur, C. 258
- Lévy, D., Chami, M., Marco, S., Scheuring, S. and Rigaud, J.L.
Binding to a lipid layer: a low material consuming approach for structural analysis of membrane proteins 154
- Lübben, M., see Prutsch, A. 92
- Lüttge, U., see Domgall, I. 15
- Laakkonen, L., see Kaukonen, M. 90
- Lacapere, J.-J., see Delavoie, F. 256
- Lafitte, D., see leMaire, M. 36
- LagbergArklblad, E., see Karlsson, J. 186
- Lagerstedt, J.O., Zvyagilskaya, R., Pratt, J.R., Hernström, T. and Persson, B.L.
Novel aspects in function of the Pho89 phosphate transporter in *Saccharomyces cerevisiae* 165
- Lagerstedt, J.O., see Lundh, K.I. 257
- Lagoutte, B., see Cassan, N. 235
- Lagoutte, B., see Kuznetsova, S. 239
- Lancaster, C.R.D.
Structure and mechanism of quinol:fumarate reductase, a respiratory membrane protein complex from *Wolinella succinogenes* 133
- Lancaster, D., see Haas, A. 130
- Lange, C., see Hunte, C. 215
- Langer, T.
Quality control of membrane proteins in mitochondria 59
- Lapathitis, G., Mracek, T., Cowdhury, S.K.R., Sebesta, O., Motlik, J. and Houstek, J.
Butyrolactone I affects cellular distribution and function of mitochondria 318
- Larsson, C., see Pählman, I.-L. 159
- Larsson, G., Svensson-Ek, M., Iwata, S. and Brzezinski, P.
Structural dynamics of cytochrome *c* oxidase 91
- Larsson, J. and von Wachenfeldt, C.
Positive and negative regulation of cytochrome *bd* expression in *Bacillus subtilis* 134
- Lauquin, Guy J.-M., see De Marcos Lousa, C. 250
- Lauquin, Guy J.-M., see Postis, V. 260
- Lawrence, R., Fisher, N. and Rich, P.
Investigation of the quinone binding site in Complex I of *Escherichia coli* 190
- Le Caer, J.-P., see Pflieger, D. 153
- Ledesma, A., see Jiménez-Jiménez, J. 266
- Ledesma, A., García, M., Arechaga, I. and Rial, E.
Transmembrane arrangement of the uncoupling protein UCP1 and topological considerations on the nucleotide binding site 267
- Leducq, N., see Pariselli, F. 322
- Le Gall, J., see Lemos, R.S. 140
- Lemaire, C., see Saint-Georges, Y. 65
- Lemaire, C., see Pflieger, D. 153
- le Maire, M., Menguy, T., Corre, F., Juul, B., Bouneau, L., Lafitte, D., Derrick, P.J., Sharma, P.S., Falson, P., Levine, B.A. and Möller, J.V.
Involvement of the cytoplasmic loop L6-7 in the entry mechanism for transport of Ca through the sarcoplasmic reticulum Ca-ATPase 36
- Lemesle-Meunier, D., see Brasseur, G. 217
- Lemesle-Meunier, D., see Brasseur, G. 218
- Lemos, R.S., Gomes, C.M., Santana, M., LeGall, J., Xavier, A.V. and Teixeira, M.
The oxygen respiratory chain of anaerobic sulfate-reducers 140
- Lenaz, G., see Solaini, G. 312
- Lennon, A., see Jassal, J. 237
- Lerme, F., see Gateau-Roesch, O. 284
- Leslie Dutton, P., see Osyczka, A. 225
- Letellier, T., see Faustin, B. 282
- Letellier, T., see Aimar, M. 295
- Letellier, T., see Rocher, C. 302
- Levens, N., see Couplan, E. 248
- Leverve, X., see Chauvin, C. 176
- Leverve, X., see Guigas, B. 288
- Levine, B.A., see leMaire, M. 36
- Levrat, C., see George, P. 293
- Levy, D., see Scheuring, S. 240
- Li, H., see Delavoie, F. 256
- Li, Y., see Lucas, M.-G. 136
- Liang, H.L., see Wong-Riley, M. 111
- Liebl, U., Bouzhir-Sima, L., Négrerie, M., Martin, J.-L. and Vos, M.H.
Ultrafast ligand rebinding in the heme domain of the oxygen sensors FixL and Dos: general regulatory implications for heme-based sensors 155
- Liebland Marten H. Vos, U., see Pilet, E. 99
- Liimatta, E., Gödecke, A., Schrader, J. and Hassinen, I.E.
Mitochondrial regulation in myoglobin-deficient mouse heart 289
- Lill, H., see Groth, G. 13
- Lipowski, G., see Pilet, E. 99
- Lippe, G., Di Pancrazio, F., Contessi, S., Pierfederici, F.M., Metelli, G. and Mavelli, I.
Interaction of the inhibitor protein IF1 with F0F1ATP synthase from ox heart under different pH and aggregation states 37
- Lochmüller, H., see Chen, Y. 323
- Loiseau, N., see Sigalat, C. 47
- Lolkema, J.S., Chaban, Y., Ubbink-Kok, T., Keegstra, W. and Boekema, E.J.
Structural organization of the V-type Na-ATPase of the thermophile *C. fervidus* 38
- Lolkema, J.S., see Sobczak, I. 161
- Lombardi, A., see Damon, M. 280
- Longchamp, M., see Couplan, E. 248
- Loppnow, H., see Chen, Y. 323
- Loufoua, J., see Gateau-Roesch, O. 284
- Louis, L., see Naïg, G. 287
- Louisot, P., see Gateau-Roesch, O. 284
- Louisot, P., see George, P. 293
- Lowrey, D., see Frasch, W.D. 22
- Luca, S., see Bartoschek, S. 216
- Lucas, M.-G., Li, Y., Redding, K. and Rappaport, F.
Modulation of the relative efficiency of the two electron transfer branches in Photosystem I 136
- Ludwig, B., see Stroh, A. 73
- Ludwig, B., see Giuffrè, A. 86
- Ludwig, B., see Grimaldi, S. 87
- Ludwig, B., see Maneg, O. 93
- Ludwig, B., see Kirichenko, A. 116
- Ludwig, B., see Ritter, M. 227
- Lukoyanov, D., see Barquera, B. 172
- Lunardi, J., see Albracht, S.P.J. 169
- Lundh, K.I., Lagerstedt, J.O., Berhe, A. and Persson, B.L.
The importance of the Pho84 transmembrane segment XI for phosphate transport into *Saccharomyces cerevisiae* 257
- Lutter, M., see Pariselli, F. 322

- Møller, J.V., see leMaire, M. 36
- Mäntele, W., see Böhm, A. 81
- Mäntele, W., see Haas, A. 130
- Mäntele, W., see Ritter, M. 227
- Müller, H., see Giuffrè, A. 86
- Müller, T., see Norbert Gellerich, F. 285
- MacMillan, F., see Grimaldi, S. 87
- MacMillan, F., see Maly, Th. 191
- Madeira, V.M.C., see Peixoto, F. 158
- Magalon, A., Frixon, C., Pommier, J., Blasco, F. and Giordano, G.
Biosynthesis and acquisition of the molybdenum cofactor in *Escherichia coli* 66
- Maklashina, E., see Cecchini, G. 126
- Maklashina, E., Kotlyar, A.B. and Cecchini, G.
Active/de-active transition of respiratory complex I in bacteria, fungi and animals 192
- Malatesta, F., see Giuffrè, A. 86
- Malatesta, F., see Maneg, O. 93
- Malgat, M., see Français, S. 162
- Malgat, M., see Faustin, B. 282
- Malgat, M., see Rocher, C. 302
- Maly, Th., MacMillan, F., Zwicker, K., Kashani-Poor, N., Grgic, L., Brandt, U. and Prisner, T.F.
Complex I studied by pulsed EPR spectroscopy 191
- Malyan, A.N., see Galkin, M.A. 24
- Maneg, O., Ludwig, B. and Malatesta, F.
Electron transfer between *Paracoccus denitrificans* cytochrome *c*₅₅₂ and cytochrome *c* oxidase C_{uA} soluble domains 93
- Manon, S., see Camougrand, N. 278
- Manon, S., see Priault, M. 294
- Marco, S., Chami, M., Pereira, A., Orelle, C., Jault, J.-M., DiPietro, A., Baggetto, L., Goffeau, A. and Rigaud, J.-L.
Structural comparison of three ABC-transporters in detergents or reconstituted in membranes 44
- Marco, S., see Lévy, D. 154
- Margreiter, R., see Saks, V. 305
- MarieSchmitter, J., see Paumard, P. 51
- Martin, J.-L., see Liebl, U. 155
- Martinou, J.-C., see Pariselli, F. 322
- Martinuzzi, A., see Dabbeni-Sala, F. 156
- Marusich, M., see Rossignol, R. 303
- Marza, E., see Priault, M. 294
- Mastronicola, D., Giuffrè, A., Barone, M.C., Forte, E., Arese, M., Blanck, T.J.J., Brunori, M. and Sarti, P.
On the mechanisms of the reciprocal control between nitric oxide and cytochrome *c* oxidase in cultured tumor cells 308
- Matagne, R.F., see Cardol, P. 199
- Matagne, R.F., see Cardol, P. 233
- Mateo, P., see Couplan, E. 248
- Mathiesen, C. and Hägerhäll, C.
The antiporter-like subunits of respiratory Complex I 193
- Matsuno-Yagi, A., see Seo, B.B. 194
- Matsuno-Yagi, A., see Nakamaru-Ogiso, E. 206
- Matsuo, H., see Sambongi, Y. 138
- Matthey, U., see Cook, G.M. 16
- Matthey, U., see Meier, T. 39
- Mavelli, I., see Lippe, G. 37
- Mazat, J.P., see Français, S. 162
- Mazat, J.P., see Faustin, B. 282
- Mazat, J.P., see Rocher, C. 302
- Mazat, J.-P., see Aimar, M. 295
- McCracken, J., see Schmidt, B. 104
- Medvedev, D., see Zheng, X. 107
- Meier, T., Matthey, U., Vonck, J., Vonck, J., KrugvonNidda, T., Mills, D.J., Kühlbrandt, W. and Dimroth, P.
Molecular architecture of a biological turbine 39
- Melo, A.M.P., see Bandejas, T.M. 171
- Menguy, T., see leMaire, M. 36
- Merbitz-Zahradnik, T. and Trumpower, B.L.
The role of midpoint potentials in electron transfer reactions in the cytochrome *bc*₁ complex 224
- Meshnick, S., see Hill, P. 221
- Metelli, G., see Lippe, G. 37
- Meunier, B.
Dysfunction of the respiratory chain complexes cytochrome oxidase and *bc*₁: studying disease-related mutations in yeast 157
- Meunier, B., see Brasseur, G. 218
- Meunier, B., see Brown, A. 219
- Meunier, B., see Hill, P. 221
- Michel, H., see Grimaldi, S. 87
- Michel, H., see Olkhova, E.V. 98
- Michel, H., see Peng, G. 198
- Milanesi, E., Costantini, P., Petronilli, V., Pinard, E., Cesura, A. and Bernardi, P.
The mitochondrial mechanisms of cell killing by the BCL-2 ligand HA14-1 325
- Mills, D., see Hillier, W. 88
- Mills, D.J., see Meier, T. 39
- Minai-Tehrani, D., see Keyhani, E. 142
- Minakawa, K., see Sambongi, Y. 138
- Minoletti, C., Santolini, J., Pothier, J., Haraux, F. and André, F.
Rebuilt 3D asymmetrical structure of chloroplast F₁-ATPase complex 11
- Minoletti, C., see Sigalat, C. 47
- Miroux, B., see Pecqueur, C. 258
- Mitsui, K., see Kanazawa, H. 72
- Mityashina, S.Yu.
Metabolic regulation of stress response in the cells of sulfate-reducing bacteria 164
- Miyoshi, H., see Grimaldi, S. 87
- Miyoshi, H., see Yabunaka, H. 195
- Miyoshi, H., see Nakamaru-Ogiso, E. 206
- Mizuta, K., see Sambongi, Y. 138
- Mnatsakanyan, N., see Bagramyan, K. 56
- Moberg, P., see Ståhl, A. 67
- Mochizuki, M., see Muramoto, K. 112
- Modrianský, M., see Růžicka, M. 304
- Mogi, T., see Grimaldi, S. 87
- Mogi, T., Kobayashi, K. and Tagawa, S.
Pulse radiolysis study on one-electron reduction processes in subunit I mutants of cytochrome *bo*-type ubiquinol oxidase from *Escherichia coli* 94
- Monteiro, P., Moura, J.P., Silva, S.I., Duarte, A., Oliveira, P.J., Moreno, A.J.M., Gonçalves, L. and Providência, L.A.
Effects of bradykinin on mitochondrial respiratory chain function in an animal model of global myocardial ischemia 296
- Monteiro, P., see Moura, J.P. 297
- Monteiro, P., see Oliveira, P.J. 300
- Monteiro, P., see Sardão, V.A. 307
- Monteiro, P., see Silva, S.I. 311
- Moore, A.L., see Affourtit, C. 78
- Moore, A.L., see Crichton, P.G. 83
- Moreno, A.J., see Ferreira, F.M. 283
- Moreno, A.J.M., see Monteiro, P. 296
- Moreno, A.J.M., see Moura, J.P. 297
- Moreno, A.J.M., see Oliveira, P.J. 300
- Moreno, A.J.M., see Sardão, V.A. 307
- Moreno, A.J.M., see Silva, S.I. 311
- Moreno, A.M., see Santos, D.L. 306
- Morgan, H.W., see Cook, G.M. 16
- Morgan, J.E., Tomson, F., Gu, G. and Gennis, R.B.
Mapping the K-pathway of heme-copper oxidases 95
- Morgan, J.E., see Barquera, B. 172
- Morikawa, Y., see Tanigawa, M. 108
- Moser, C.C., see Osyczka, A. 225

- Motlik, J., see Lapathitis, G. 318
- Moura, J.P., see Monteiro, P. 296
- Moura, J.P., Monteiro, P., Silva, S.I., Duarte, A., Oliveira, P.J., Moreno, A.J.M., Gonçalves, L. and Providência, L.A.
Bradykinin's protective effects on cardiac mitochondria are nitric oxide-dependent 297
- Moura, J.P., see Silva, S.I. 311
- Mousseau, M., see Chauvin, C. 176
- Moussonde Camaret, B., see Bourges, I. 62
- Mracek, T., see Lapathitis, G. 318
- Mracek, T., Cannon, B. and Houstek, J.
IL-1 and LPS downregulate levels of PPAR gamma in brown adipose tissue 163
- Mracek, T., see Drahot, Z. 317
- Mulkidjanian, A.Y., see Feniouk, B.A. 21
- Mulkidjanian, A.Y., see Kozlova, M. 35
- Mulkidjanian, A.Y., see Feniouk, B.A. 40
- Mulkidjanian, A.Y., see Cherepanov, D.A. 71
- Mulkidjanian, A.Y., see Klishin, S.S. 222
- Mulkidjanian, A.Y., see Voskoboinikova, N. 241
- Muntyan, M.S., Grischuk, Yu.V. and Skulachev, V.P.
Energy coupling at the terminal part of the respiratory chain of extremely alkaliphilic *Thioalkalivibrio* 118
- Muramoto, K., Aoyama, H., Mochizuki, M., Shinzawa-Itoh, K., Yamashita, E., Yao, M., Tsukihara, T. and Yoshikawa, S.
Heme a as the driving element of proton pumping of bovine heart cytochrome *c* oxidase 112
- Murata, Y., see Wada, Y. 53
- Musatov, A., Hebert, E. and Robinson, N.C.
Modification of nuclear-coded subunits of oxidized bovine heart cytochrome *c* oxidase by hydrogen peroxide 96
- Musatov, A., see Sedlák, E. 137
- Négrerie, M., see Liebl, U. 155
- Naïg, G., Louis, L. and Patrick, H.
Functional properties of mitochondria isolated from type I and type II skeletal muscle in pigs 287
- Nagel-Steger, L., see Böttcher, B. 175
- Nagley, P., see Gavin, P.D. 17
- Nagley, P., see Khan, M.A. 34
- Nakamaru-Ogiso, E., see Seo, B.B. 194
- Nakamaru-Ogiso, E., Sakamoto, K., Matsuno-Yagi, A., Miyoshi, H. and Yagi, T.
Exploring roles of membrane domain in the proton-translocating NADH-quinone oxidoreductase 206
- Nakamoto, R.K., see Philé, N. 41
- Nakamura, N., see Kanazawa, H. 72
- Nakatogawa, Y., see Yabunaka, H. 195
- Namslauer, A., see Brändén, M. 82
- Namslauer, A., Pawate, A., Aagaard, A., Gennis, R.B. and Brzezinski, P.
Alteration of the thermodynamic properties of the D-pathway in cytochrome *c* oxidase results in uncoupling of proton pumping from the oxygen reduction activity 97
- Nantes, I.L., see Cosso, R.G. 315
- Napoli, E., see Dabbeni-Sala, F. 156
- Nartsissov, Ya.R., Toueva, A.S., Varbuzov, A.A., Burbenskaya, N.M. and Komissarova, I.A.
Glycine can decrease the amplitude of the calcium-induced swelling in brain mitochondria 319
- Nasu, H., see Sakamoto, J. 103
- Navet, R., Jarmuszkiewicz, W., Sluse-Goffart, C.M. and Sluse, F.E.
Energy conservation and dissipation in mitochondria isolated from tomato non-ripening mutants (nor, rin, Nr) during development in plants: comparison with wild-type and effects of ethephon 298
- Nazaret, C., see Aimar, M. 295
- Nazarova, G.N., see Galkin, M.A. 24
- Nedergaard, J., see Shabalina, I.G. 262
- Netrusov, A.I., see Strom, E.V. 117
- Neudecker, S., see NorbertGellerich, F. 285
- Neuhaus, D., see Kellas, F.A. 31
- Neuhaus, D., see Kellas, F.A. 33
- Neuhaus, D., see Silvester, J.A. 48
- Nicolas, G., Richard, R., Axel, M., Gérard, G., Joel, W. and Francis, B.
Escherichia coli nitrate reductase A (NarGHI): identification of quinol binding sites 124
- Nilges, M.J., see Barquera, B. 172
- Nishio, K., Iwamoto-Kihara, A., Wada, Y. and Futai, M.
Subunit rotation of ATP synthase embedded in membranes: α or β subunit rotation relative to the *c* subunit ring 42
- Nixon, P., see Jassal, J. 237
- Noguchi, S., see Sakamoto, J. 103
- Nogushi, S., see Kurokawa, T. 223
- Norbert Gellerich, F., Deschauer, M., Chen, Y., Müller, T., Neudecker, S. and Zierz, S.
Genotype-phenotype relations in skeletal muscle of patients with deletions and point mutations of mtDNA 285
- Nouette-Gaulain, K., see Français, S. 162
- Nyström, T., see Aguilaniu, H. 147
- Nyström, T., see Hlavatá, L. 327
- Obinger, C., see Peschek, G.A. 135
- Ochi, F., see Kanazawa, H. 72
- Oehring, R., see Kunz, W.S. 189
- Ohashi, T., see Tanigawa, M. 108
- Ohgaki, R., see Kanazawa, H. 72
- Ohnishi, T., Johnson, J., Yano, T. and Widger, W.R.
EPR and thermodynamic characterization of multi-component semi-quinone species in bovine heart complex I in coupled SMP and in the isolated enzyme 196
- Okun, P., see Garofano, A. 182
- Olivares, J., see Appaix, F. 275
- Olivares, J., see Saks, V. 305
- Oliveira, H.C.F., Alberici, L.C., Bighetti, E.J.B., Degaspari, G.R., deFaria, E.C. and Vercesi, A.E.
Ciprofibrate treatment reduces susceptibility of liver mitochondria to calcium-induced permeability transition in hypertriglyceridemic transgenic mice 299
- Oliveira, P.J., see Ferreira, F.M. 283
- Oliveira, P.J., see Monteiro, P. 296
- Oliveira, P.J., see Moura, J.P. 297
- Oliveira, P.J., Esteves, T., Rolo, A.P., Monteiro, P., Gonçalves, L., Palmeira, C.M. and Moreno, A.J.M.
Critical role of mitochondrial protein thiol groups in the inhibitory action of carvedilol on the mitochondrial permeability transition 300
- Oliveira, P.J., see Sardão, V.A. 307
- Oliveira, P.J., see Silva, S.I. 311
- Olkhova, E.V., Floeck, D., Helms, V. and Michel, H.
Molecular dynamics simulation of cytochrome *c* oxidase in a dimyristoyl-phosphatidylcholine bilayer membrane 98
- Omoteand Marwan K. Al-Shawi, H.
Electron Paramagnetic Resonance Studies of Drug Transport by P-glycoprotein 58
- Orelle, C., see Marco, S. 44
- Orosco, A., see Andrienko, T.N. 274
- Ortmann, S., see Couplan, E. 248
- Ostermann, T., see Grimaldi, S. 87
- Osyczka, A., Moser, C.C., Daldal, F. and Leslie Dutton, P.
Cofactor knockout strategies uncover the minimal functional unit of the primary energy conversion steps of cytochrome *bc₁* 225
- Otto Stetter, K., see Peng, G. 198
- Ovize, M., see Gateau-Roesch, O. 284
- Pählman, I.-L., Larsson, C., Averet, N., Bunoust, O., Boubekeur, S., Gustafsson, L. and Rigoulet, M.

- Kinetic regulation of the mitochondrial glycerol-3-phosphate dehydrogenase by the external NADH dehydrogenase in *Saccharomyces cerevisiae* 159
- Pätsi, J., see Kervinen, M. 188
- Pätsi, J., see Kervinen, M. 301
- Pénicaud, L., see Carrière, A. 279
- Pérez Vásquez, V. and Uribe, S.
Modulation of the mitochondrial unspecific permeability by calcium 313
- Palmeira, C.M., see Ferreira, F.M. 283
- Palmeira, C.M., see Oliveira, P.J. 300
- Palmer, G., see Fabian, M. 84
- Palsdottir, H. and Hunte, C.
Crystallographic analysis of the quinol-oxidizing (Q_o) site in the yeast cytochrome *bc*₁ complex 226
- Palsdottir, H., see Ritter, M. 227
- Papadopoulos, V., see Delavoie, F. 256
- Pariselli, F., Rameau, C., Budihardjo, I., Andreu, P., Leducq, N., Lutter, M., Antosson, B., Martinou, J.-C., Wang, X., Diolez, P. and Petit, P.X.
A bioenergetic approach of the destabilization of mitochondrial functions by *tcBid* and regulation by BH-3 only domains or by Bcl-2 and Bcl-XL 322
- Parkhomenko, O., see Zvyagil'skaya, R. 265
- Patrick, H., see Naïg, G. 287
- Paul, J., see Pickova, A. 43
- Paumard, P., see Soubannier, V. 49
- Paumard, P., Arselin, G., Vaillier, J., Chaignepain, S., Bathany, K., Marie Schmitter, J., Brêthes, D. and Velours, J.
Two ATP synthases can be linked through subunits *i* in the inner mitochondrial membrane of *Saccharomyces cerevisiae* 51
- Pavlov, P., see Glaser, E. 64
- Pawate, A., see Namslauer, A. 97
- Pecqueur, C., Alves-Guerra, M.-C., Gelly, C., Lévi-Meyrueis, C., Couplan, E., Ricquier, D., Bouillaud, F. and Miroux, B.
Immunological study of the uncoupling protein 2 258
- Pedersen, A., see Johansson, C. 197
- Pehowich, D.J.
3,3',5-Triiodo-L-thyronine induces mitochondrial membrane depolarization and permeability transition pore opening following anoxia and reoxygenation 320
- Pei, Z., see Roth, R. 200
- Peixoto, F., Vicente, J. and Madeira, V.M.C.
Paraquat affects mitochondrial bioenergetics by promoting the loss of mitochondrial membrane plasticity 158
- Peng, G., Michel, H., Fritzsche, G., Bostina, M., Radermacher, M. and Otto Stetter, K.
Isolation and characterization of NADH:ubiquinone oxidoreductase (complex I) from the hyperthermophilic eubacterium *Aquifex aeolicus* 198
- Penzo, D., Bernardi, P., Di Lisa, F. and Petronilli, V.
Mitochondrial dysfunction and cell death: Relationship with intracellular calcium 326
- Peranzi, G., see Delavoie, F. 256
- Pereira, A., see Marco, S. 44
- Pereira, M.M., Teixeira, M., Baptista, A.M. and Soares, C.M.
Investigation of protonable residues in the d-channel of *Rhodothermus marinus* *caa*₃ terminal oxidase 100
- Pereira, M.M., see Fernandes, A.S. 178
- Persson, B.L., see Lagerstedt, J.O. 165
- Persson, B.L., see Lundh, K.I. 257
- Persson, B.L., see Zvyagil'skaya, R. 259
- Peschek, G.A., Zoder, R. and Obinger, C.
Bifunctional catalase–peroxidases (EC 1.11.1.7) and monofunctional catalases (EC 1.11.1.6) from cyanobacteria 135
- Peskin, A.V., see Vygodina, T.V. 115
- Pestov, N., see Tigerström, A. 203
- Petit, P.X., see Pariselli, F. 322
- Petronilli, V., see Milanesi, E. 325
- Petronilli, V., see Penzo, D. 326
- Petruszella, V., see Pickova, A. 43
- Pfeiffer, K., see Stroh, A. 73
- Pfützner, U., see Kirichenko, A. 116
- Pflieger, D., Le Caer, J.-P., Lemaire, C., Bernard, B., Dujardin, G. and Rossier, J.
Towards the systematic identification of mitochondrial proteins by LC-MS/MS 153
- Phi Le, N., Al-Shawi, M.K. and Nakamoto, R.K.
Pre-steady state kinetic analysis of rotational catalysis in the F₁-ATPase 41
- Pichová, A., see Hlavatá, L. 327
- Pickova, A., Paul, J., Petruzella, V. and Houstek, J.
ATP synthase assembly proteins—expression of *ATP11* and *ATP12* genes in mammalian tissues 43
- Pierfederici, F.M., see Lippe, G. 37
- Pilet, E., Lipowski, G., Soulimane, T. and Liebland Marten H. Vos, U.
NO binding and ultrafast dynamics in the active site of reduced heme-copper oxidases 99
- Pimpe, E., see Kadziauskas, J. 152
- Pinard, E., see Milanesi, E. 325
- Poladian, A., see Trchounian, A. 143
- Pommier, J., see Magalon, A. 66
- Popov, V.N.
ATP/ADP antiporter participates in fatty acids mediated uncoupling in potato mitochondria 269
- Pos, K.M., see Wild, M.R. 74
- Postis, V., Trezeguet, V. and Lauquin, Guy J.-M.
The mitochondrial adenine nucleotide carrier from *S. cerevisiae*: structural and functional properties of each monomer within the functional dimer 260
- Pothier, J., see Minoletti, C. 11
- Pratt, J.R., see Lagerstedt, J.O. 165
- Pratt, J.R., see Zvyagil'skaya, R. 259
- Prescott, M., see Gavin, P.D. 17
- Priault, M., Marza, E., Bessoule, J.-J., Grelaud-Coq, A., Camougrand, N. and Manon, S.
The role of lipid oxidation in Bax-induced cell death in yeast 294
- Prisner, T.F., see Grimaldi, S. 87
- Prisner, T.F., see Maly, Th. 191
- Providência, L.A., see Monteiro, P. 296
- Providência, L.A., see Moura, J.P. 297
- Providência, L.A., see Silva, S.I. 311
- Prutsch, A. and Lübken, M.
Coupling of electron uptake with propionyl group protonation at the low-spin heme B of cytochrome *bo*₃ 92
- Puustinen, A., see Backgren, C. 79
- Puustinen, A., see Rauhamäki, V. 101
- Puustinen, A., see Tuukkanen, A. 109
- Qin, L., see Schmidt, B. 104
- Quesson, B., see Couplan, E. 248
- Quirk, P.G., see vanBoxel, G.I. 204
- Růžička, M., Šantorová, J., Aleksakhina, K., Modrianský, M. and Ježek, P.
Lipopolysaccharide and TNF α -stimulation of uncoupling protein UCP2 mRNA in rat liver and hepatocytes 304
- Radermacher, M., see Bostina, M. 174
- Radermacher, M., see Peng, G. 198
- Radermacher, M., see Zickermann, V. 207
- Radermacher Ü. Coskun, M., see Rizzo, V.F. 28
- Rameau, C., see Pariselli, F. 322
- Rappaport, F., see Borisov, V.B. 113
- Rappaport, F., see Cuni, A. 127
- Rappaport, F., see Lucas, M.-G. 136
- Ratajczak, R., see Domgall, I. 15

- Rauhämäki, V., Wikström, M. and Puustinen, A.
Purification and characterization of the alternative cytochrome *c* oxidase from *Rhodobacter sphaeroides* 101
- Rebstock, J., see Kunz, W.S. 189
- Redding, K., see Lucas, M.-G. 136
- Remacle, C., see Cardol, P. 199
- Remacle, C., see Cardol, P. 233
- Rial, E., see Tomás, P. 261
- Rial, E., see Jiménez-Jiménez, J. 266
- Rial, E., see Ledesma, A. 267
- Rich, P., see Lawrence, R. 190
- Rich, P., see Jassal, J. 237
- Rich, P.R., see Iwaki, M. 89
- Rich, P.R., see Fisher, N. 179
- Rich, P.R., see Giotto, L. 220
- Richard, R., see Nicolas, G. 124
- Richter, M.L., see Tucker, W.C. 27
- Ricquier, D., see Couplan, E. 248
- Ricquier, D., see Couplan, E. 253
- Ricquier, D., see Pecqueur, C. 258
- Rigaud, J.L., see Lévy, D. 154
- Rigaud, J.-L., see Marco, S. 44
- Rigaud, J.-L., see Scheuring, S. 240
- Rigoulet, M., see Aguilaniu, H. 147
- Rigoulet, M., see Deveda, C. 151
- Rigoulet, M., see Pählman, I.-L. 159
- Rigoulet, M., see Carrière, A. 279
- Ritter, M., Anderka, O., Palsdottir, H., Hunte, C., Ludwig, B., Hellwig, P. and Mantele, W.
Characterization of the quinone binding sites of the cytochrome *bc₁* complex from *Paracoccus denitrificans* and *Saccharomyces cerevisiae* by electrochemically induced FTIR difference spectroscopy and specific inhibitors 227
- Rizzo, V.F., Radermacher, U., Coskun, M. and Grüber, G.
Structure of the V-ATPase and the A₃B₃EG-subcomplex from *M. sexta* 28
- Robert, B., see Scheuring, S. 240
- Robert, J.-C., see Delavoie, F. 256
- Roberta Randi, M., see Borsetti, F. 242
- Roberts, J.K.M. and Roby, C.
Respiratory metabolism in plant cells during starvation and rescue 160
- Robinson, N.C., see Musatov, A. 96
- Robinson, N.C., see Sedláček, E. 119
- Robinson, N.C., see Sedláček, E. 137
- Roby, C., see Roberts, J.K.M. 160
- Rocher, C., see Faustin, B. 282
- Rocher, C., Faustin, B., Rossignol, R., Malgat, M., Mazat, J.P. and Letellier, T.
Influence of a decrease of the mitochondrial DNA on the oxidative phosphorylation 302
- Rodriguez, L., see Frasch, W.D. 22
- Rolo, A.P., see Oliveira, P.J. 300
- Ronot, X., see Chauvin, C. 176
- Rossier, J., see Pflieger, D. 153
- Rossignol, R., see Faustin, B. 282
- Rossignol, R., see Rocher, C. 302
- Rossignol, R., Aggeler, R., Gilkerson, R., Selker, J., Marusich, M. and Capaldi, R.
Substrate regulation of mitochondrial form and function in human living cells 303
- Roth, R., Pei, Z. and Hägerhäll, C.
Photo-labelling of *Rhodobacter capsulatus* NADH:ubiquinone oxidoreductase with azidoquinones 200
- Rothery, R.A., Spiers, A.-M. Caroline, Cecchini, G., Schröder, I. and Weiner, J.H.
Defining the Q_P-site of *Escherichia coli* fumarate reductase (FrdABCD) by fluorescence quench titrations and site-directed mutagenesis 125
- Rousseau, D.L., see Ji, H. 102
- Roy, C., see Haas, A. 130
- Roy, D., Lancaster, C., see Bartoschek, S. 216
- Rubinstein, J.L. and Walker, J.E.
ATP synthase from *Saccharomyces cerevisiae*: location of the OSCP subunit in the peripheral stalk region 45
- Rudhe, C., see Glaser, E. 64
- Runswick, M.J., see Kellas, F.A. 31
- Runswick, M.J., see Kellas, F.A. 33
- Runswick, M.J., see Silvester, J.A. 48
- Rustin, P., see Taanman, J.-W. 68
- Ruuge, E.K., see Bogachev, A.V. 210
- Rydström, J., see Althage, M. 170
- Rydström, J., see Karlsson, J. 186
- Rydström, J., see Johansson, C. 197
- Rydström, J., see Tigerström, A. 203
- Sétif, P., see Kuznetsova, S. 239
- Sadauskaitė, A., see Kadziauskas, J. 152
- Saint-Georges, Y., Hamel, P., Lemaire, C. and Dujardin, G.
Role of positively charged transmembrane segments in the insertion and assembly of mitochondrial inner-membrane proteins 65
- Saito, K., see Iko, Y. 30
- Sakamoto, J., Kawahara, Y., Nasu, H., Noguchi, S. and Sone, N.
Gene destruction and energetics of the two respiratory pathways of the amino-acid producing bacterium *Corynebacterium glutamicum* 103
- Sakamoto, J., see Kurokawa, T. 223
- Sakamoto, K., see Nakamaru-Ogiso, E. 206
- Saks, V., see Appaix, F. 275
- Saks, V., Guerrero, K., Andrienko, T., Usson, Y., Appaix, F., Olivares, J., Seppet, E., Margreiter, R. and Kuznetsov, A.V.
Mitochondrial respiratory function within intracellular energetic units of the cardiac cell 305
- Saks, V., see Vendelin, M. 314
- Saks, V.A., see Andrienko, T.N. 274
- Sambongi, Y., see Iko, Y. 30
- Sambongi, Y., Mizuta, K., Uchiyama, S., Kobayashi, Y., Igarashi, Y., Terui, N., Tachiiri, N., Minakawa, K., Matsuo, H., Kameda, T. and Yamamoto, Y.
Structure, stability, and function of cytochromes *c* from thermophilic and mesophilic bacteria 138
- Samoray, D., see Turina, P. 50
- Santana, M., see Lemos, R.S. 140
- Santolini, J., see Minoletti, C. 11
- Santolini, J., see Sigalat, C. 47
- Šantorová, J., see Růžicka, M. 304
- Santos, D.L. and Moreno, A.M.
Activity of carvedilol against oxidative damage in heart mitochondrial proteins 306
- Santos, M.S., see Ferreira, F.M. 283
- Sardão, V.A., Oliveira, P.J., Monteiro, P., Gonçalves, L. and Moreno, A.J.M.
Toxicity of caffeine in heart mitochondria: enhancement of permeability transition and disturbance of mitochondrial bioenergetic processes 307
- Sarti, P., see Giffre, A. 86
- Sarti, P., see Mastronicola, D. 308
- Sauer, U.S., see Haas, A. 130
- Sayfullina, G.L., see Gizatullina, Z.Z. 286
- Sazanov, L.
Structural characterisation of complex I from *E. coli* 201
- Schäfer, H.-J., see Genswein, R. 46
- Schägger, H., see Stroth, A. 73
- Schägger, H., see Giotto, L. 220
- Schönfeld, P., Schüttig, R. and Wojtczak, L.
Release of Mg from mitochondria by long-chain fatty acids in alkaline saline media 309
- Schüttig, R., see Schönfeld, P. 309

- Schaeffer, J., see Soubannier, V. 49
- Schartz, A., see Tucker, W.C. 27
- Scheide, D., see Böttcher, B. 175
- Scheuring, S., see Lévy, D. 154
- Scheuring, S., Seguin, J., Levy, D., Robert, B. and Rigaud, J.-L.
Light harvesting complexes 2 investigated by high-resolution atomic force microscopy 240
- Schmidt, B., see Hillier, W. 88
- Schmidt, B., Florens, L., Qin, L., McCracken, J. and Ferguson-Miller, S.
The start of the water exit pathway in bacterial cytochrome *c* oxidase 104
- Scholes, C.P., see Barquera, B. 172
- Schröder, I., see Rothery, R.A. 125
- Schrader, J., see Liimatta, E. 289
- Sebban, P., see Taly, A. 144
- Sebesta, O., see Lapathitis, G. 318
- Sedláč, E. and Robinson, N.C.
Removal of bound cardiolipin destabilizes the quaternary structure of bovine heart cytochrome *c* oxidase 119
- Sedláč, E., Musatov, A., Hosler, J.P. and Robinson, N.C.
Delipidation of cytochrome *c* oxidase from *Rhodobacter sphaeroides* decreases stability of its quaternary structure 137
- Seguin, J., see Scheuring, S. 240
- Seiça, R., see Ferreira, F.M. 283
- Selker, J., see Rossignol, R. 303
- Semenov, A.Y., see Gupta, O.A. 230
- Senior, A.E. and Weber, J.
Molecular mechanism of ATP synthesis by ATP synthase 54
- Senior, A.E., see Weber, J. 55
- Seo, B.B., Nakamaru-Ogiso, E., Yagi, T. and Matsuno-Yagi, A.
A single subunit NADH–quinone oxidoreductase as the rescue molecule for neurodegenerative diseases with complex I deficiency 194
- Seppet, E., see Saks, V. 305
- Setif, P., see Cassan, N. 235
- Sgarbi, G., see Solaini, G. 312
- Shabalina, I.G., Jacobsson, A., Cannon, B. and Nedergaard, J.
Fatty acid-induced uncoupling in brown-fat mitochondria from wild-type and UCP1-ablated mice 262
- Shakhparonov, M., see Tigerström, A. 203
- Shannon, R.J., see Fisher, N. 179
- Sharma, P.S., see leMaire, M. 36
- Shaw, G., see Geijer, P. 129
- Sher, Y., see Cecchini, G. 126
- Shimada, H., see Shimokata, K. 105
- Shimokata, K., Katayama, Y., Shimada, H. and Yoshikawa, S.
Asp51Asn mutation of bovine heart cytochrome *c* oxidase subunit I 105
- Shinzawa-Itoh, K., see Muramoto, K. 112
- Shkerin, E.A., see Vygodina, T.V. 115
- Shoji, K., see Tanigawa, M. 108
- Siemen, D., see Buntinas, L. 310
- Sigalat, C., Santolini, J., Minoletti, C., Loiseau, N., Gomis, J.-M., Haraux, F. and André, F.
The mechanism of inhibition and reactivation of chloroplast and thermophilic bacterium F_1 -ATPases by tentoxin 47
- Sigurdson, H., see Brändén, M. 82
- Sikk, P., see Andrienko, T.N. 274
- Silberberg, M., see Couplan, E. 248
- Siletsky, S., Thomson, F., Gennis, R., Kaulen, A.D. and Konstantinov, A.
Time-resolved studies of intraprotein proton transfer in the D-channel mutants of *Rhodobacter sphaeroides* cytochrome *c* oxidase 114
- Silva, S.I., see Monteiro, P. 296
- Silva, S.I., see Moura, J.P. 297
- Silva, S.I., Monteiro, P., Moura, J.P., Duarte, A., Oliveira, P.J., Moreno, A.J.M., Gonçalves, L. and Providência, L.A.
The protective effect of isosorbide dinitrate on cardiac mitochondria during ischemia is not mediated by nitric oxide 311
- Silvester, J.A., see Kellas, F.A. 31
- Silvester, J.A., Carbajo, R.J., Runswick, M.J., Neuhaus, D. and Walker, J.E.
Structure of the F_6 subunit of bovine ATP synthase 48
- Simon, J., see Haas, A. 130
- Simon, J., see Gross, R. 139
- Singh, A., Venning, J.D., Cotton, N.P.J., White, S.A. and BazJackson, J.
The crystal structure and reaction kinetics of the dIII component of human proton-translocating transhydrogenase in complex with the analogue thio-NADP 202
- Skalska, J., see Debska, G. 268
- Škobisová, E., see Ježek, P. 255
- Skulachev, V.P., see Muntyan, M.S. 118
- Sluse, F.E., Sluse-Goffart, C.M. and Jarmuszkiewicz, W.
Interactions between the cytochrome pathway and the alternative oxidase in isolated *Acanthamoeba castellanii* mitochondria 106
- Sluse, F.E., see Douette, P. 251
- Sluse, F.E., see Jarmuszkiewicz, W. 290
- Sluse, F.E., see Navet, R. 298
- Sluse-Goffart, C.M., see Sluse, F.E. 106
- Sluse-Goffart, C.M., see Navet, R. 298
- Smith, J.C., see Taly, A. 144
- Smith, V.R. and Walker, J.E.
Structural analysis of bovine ADP/ATP translocase by infrared spectroscopy 263
- Soares, C.M., see Pereira, M.M. 100
- Sobczak, I. and Lolkema, J.S.
CitS–sodium ion-dependent citrate carrier of *Klebsiella pneumoniae* 161
- Solaini, G., Baracca, A., Sgarbi, G., Aleardi, A., Lenaz, G. and Carelli, V.
Correlation between altered ATPase 6 gene and dysfunction of mitochondria from cells of patients affected by different neuropathies 312
- Sone, N., see Sakamoto, J. 103
- Sone, N., see Kurokawa, T. 223
- Soubannier, V., Vaillier, J., Paumard, P., Coulary, B., Schaeffer, J. and Velours, J.
In the absence of the first membrane-spanning segment of subunit 4 (*b*), the yeast ATP synthase is functional but does not dimerize or oligomerize 49
- Soulimane, T., see Pilet, E. 99
- Spiers, A.-M. Caroline, see Rothery, R.A. 125
- Ståhl, A., Moberg, P. and Glaser, E.
Identification of a novel mitochondrial metalloprotease that degrades targeting presequences 67
- Stephens, A.N., see Khan, M.A. 34
- Stepien, G., see Chabi, B. 149
- Steuber, J., see Gemperli, A.C. 183
- Steuber, J.
A truncated NuoL (ND5) subunit of complex I (NDH I) from *E. coli* induces passive Na influx 211
- Stolz, M., see Genswein, R. 46
- Stroh, A., Pfeiffer, K., Anderka, O., Ludwig, B., Yagi, T., Finel, M. and Schägger, H.
Characterisation of respiratory chain supercomplexes of *Paracoccus denitrificans* 73
- Strom, E.V., Dinarieva, T.Yu. and Netrusov, A.I.
The *cho*-type cytochrome oxidase from the obligate methylotroph *Methylobacillus flagellatus* KT: substrate specificity 117
- Stuchebrukhov, A., see Zheng, X. 107
- Sun-Wada, G.-H., see Wada, Y. 53
- Sureau, F., see Gabriel, B. 321
- Svensson-Ek, M., see Larsson, G. 91
- Swanson, J., see Zheng, X. 107
- Szewczyk, A., see Debska, G. 268
- Sztark, F., see Français, S. 162
- Törnroth, S., see Horsefield, R. 131
- Taanman, J.-W., Williams, S.L., Valnot, I. and Rustin, P.

- Cytochrome-*c* oxidase subassemblies in patients with cytochrome-*c* oxidase deficiency 68
- Tachiiri, N., see Sambongi, Y. 138
- Tagawa, S., see Mogi, T. 94
- Taly, A., Sebban, P., Smith, J.C. and Ullmann, G.M.
Q_B position in the photosynthetic reaction center depends on pH: a theoretical analysis of the proton uptake upon Q_B reduction 144
- Tanigawa, M., Shoji, K., Yamato, T., Toizaki, S., Morikawa, Y., Wakesu, J., Ishiwata, A., Ohashi, T. and Yamanaka, T.
The physiological significance of the cyanide-binding slow and fast forms of bovine cytochrome *c* oxidase 108
- Teissié, J., see Gabriel, B. 321
- Teixeira, M., see Pereira, M.M. 100
- Teixeira, M., see Lemos, R.S. 140
- Teixeira, M., see Bandejas, T.M. 171
- Teixeira, M., see Fernandes, A.S. 178
- Terui, N., see Sambongi, Y. 138
- ter Veld, F., see Kongas, O. 291
- Thiaudière, E., see Couplan, E. 248
- Thomson, F., see Siletsky, S. 114
- Tigerström, A., Egorov, M., Pestov, N., Shakhparonov, M. and Rydström, J.
Properties of a transhydrogenase with a C-terminal plasma membrane Ca-ATPase tag and an N-terminal his-tag purified by affinity chromatography 203
- Toizaki, S., see Tanigawa, M. 108
- Tomás, P., Jiménez-Jiménez, J. and Rial, E.
High-throughput method for the measurement of the rate of respiration in isolated yeast mitochondria. Application to the investigation of the uncoupling protein UCP1 261
- Tomson, F., see Morgan, J.E. 95
- Tomroth, S., see Jormakka, M. 132
- Torres-Pereira, J.M.G., see Gomes-Laranjo, J.C.E. 236
- Toueva, A.S., see Nartsissov, Ya.R. 319
- Touraille, S., see Debise, R. 324
- Toyomura, T., see Wada, Y. 53
- Trézéguet, V., see DeMarcosLousa, C. 250
- Trchounian, A., see Bagramyan, K. 56
- Trchounian, A., Poladian, A. and Bagramyan, K.
Enterococcus hirae growth and solute transport can be controlled by redox potential and proton motive force 143
- Trchounian, A.A. and Bagramyan, K.A.
Functional association of *Escherichia coli* membrane transport systems: external formate stimulates the F₀F₁-ATPase activity at slightly alkaline pH 57
- Trezeguet, V., see Postis, V. 260
- Trumpower, B.L., see Hill, P. 221
- Trumpower, B.L., see Merbitz-Zahradnik, T. 224
- Tso, S.-C., Yu, C.-A. and Yu, L.
The involvement of arginine-84 of subunit IV in ionic interaction with core subunits of the cytochrome *bc*₁ complex from *Rhodobacter sphaeroides* 229
- Tsukihara, T., see Muramoto, K. 112
- Tucker, W.C., Du, Z., Schartz, A., Haran, G., Richter, M.L. and Gromet-Elhanan, Z.
Rotation of the 'gamma' subunit in photosynthetic F₁-ATPases is driven by both decoupled CaATPase and coupled MgATPase 27
- Turim, J., see Cosso, R.G. 315
- Turina, P., Samoray, D. and Gräber, P.
The H⁺/ATP coupling ratio measured in CF₀F₁ proteoliposomes 50
- Tuukkanen, A., Verkhovsky, M.I., Backgren, C., Puustinen, A. and Wikström, M.
Electron injection experiments on the D124N mutant of *Paracoccus denitrificans* cytochrome *c* oxidase 109
- Ubbink-Kok, T., see Lolkema, J.S. 38
- Uchiyama, S., see Sambongi, Y. 138
- Uhlmann, M. and Friedrich, T.
Location and function of FeS cluster N1c in *E. coli* complex I. 212
- Ullmann, G.M., see Taly, A. 144
- Urbánková, E., see Ježek, P. 255
- Uribe, S., see Pérez Vásquez, V. 313
- Ushakova, A.V., see Grivennikova, V.G. 209
- Usson, Y., see Andrienko, T.N. 274
- Usson, Y., see Appaix, F. 275
- Usson, Y., see Saks, V. 305
- Vaillier, J., see Galkin, M.A. 25
- Vaillier, J., see Venard, R. 29
- Vaillier, J., see Soubannier, V. 49
- Vaillier, J., see Paumard, P. 51
- Valente, L., see Dabbeni-Sala, F. 156
- Valnot, I., see Taanman, J.-W. 68
- van Beek, J.H.G.M., see Kongas, O. 291
- van Belzen, R., see Albracht, S.P.J. 169
- van Boxel, G.I., Cotton, N.P.J., Quirk, P.G., White, S.A. and BazJackson, J.
Substitution of Gln132 with Asn in the NAD(H)-binding component of proton-translocating transhydrogenase leads to inhibition of hydride transfer and to symmetry changes in the X-ray structure 204
- vander Linden, E., see Albracht, S.P.J. 169
- Varbuzov, A.A., see Nartsissov, Ya.R. 319
- Varlamov, D., see Kunz, W.S. 189
- Vasella, A., see vonBallmoos, C. 52
- Velours, G., see Camougrand, N. 278
- Velours, J., see Fronzes, R. 23
- Velours, J., see Galkin, M.A. 25
- Velours, J., see Venard, R. 29
- Velours, J., see Soubannier, V. 49
- Velours, J., see Paumard, P. 51
- Venard, R., Brèthes, D., Giraud, M.-F., Vaillier, J., Velours, J. and Haraux, F.
Interaction of the two inhibitory peptides IF1 and STF1 with yeast ATP synthase 29
- Vendelin, M. and Saks, V.
Movement of the metabolites within the skinned fiber: quantifying intracellular restrictions in silico 314
- Venning, J.D., see Singh, A. 202
- Venzke, D., see Domgall, I. 15
- Vercesi, A.E., see Oliveira, H.C.F. 299
- Vercesi, A.E., see Cosso, R.G. 315
- Vergani, L., see Dabbeni-Sala, F. 156
- Verkhovskaya, M. and Wikström, M.
Preparation of partially purified Complex I from *E. coli* with stable quinone reductase activity 205
- Verkhovsky, M., see Belevich, I. 80
- Verkhovsky, M., see Kaukonen, M. 90
- Verkhovsky, M.I., see Backgren, C. 79
- Verkhovsky, M.I., see Tuukkanen, A. 109
- Verkhovsky, M.I., see Jasaitis, A. 110
- Verkhovsky, M.I., see Bogachev, A.V. 210
- Vicente, J., see Peixoto, F. 158
- Vidic, B., see Delavoie, F. 256
- Vielhaber, S., see Kunz, W.S. 189
- Vielhaber, S., see Kudin, A.P. 292
- Vincent, A., see Damon, M. 280
- Vinogradov, A.D., see Grivennikova, V.G. 209
- Vojtiskova, A., see Drahota, Z. 317
- von Wachenfeldt, C., see Larsson, J. 134
- von Ballmoos, C., Appoldt, Y., Brunner, J., Granier, T., Vasella, A. and Dimroth, P.
Membrane topography of the coupling ion binding site in Na-translocating F₁F₀ ATP synthase 52
- Vonck, J., see Meier, T. 39
- Vos, M.H., see Liebl, U. 155

- Voskoboinikova, N., Junge, W. and Mulikidjanian, A.Y.
Fusion of *Rhodobacter capsulatus* chromatophores with proteoliposomes 241
- Vygodina, T.V., Peskin, A.V., Shkerin, E.A., Karyakin, A.A. and Konstantinov, A.A.
Mechanism of superoxide generation by cytochrome *c* oxidase 115
- Wada, Y., see Iko, Y. 30
- Wada, Y., see Nishio, K. 42
- Wada, Y., Toyomura, T., Murata, Y., Imai-Senga, Y., Sun-Wada, G.-H. and Futai, M.
Multiple subunit isoforms of mouse vacuolar H-ATPase 53
- Wagner, M.J., see Kongas, O. 291
- Wakesu, J., see Tanigawa, M. 108
- Walker, J.E., see Arechaga, I. 12
- Walker, J.E., see Kellas, F.A. 31
- Walker, J.E., see Kellas, F.A. 33
- Walker, J.E., see Rubinstein, J.L. 45
- Walker, J.E., see Silvester, J.A. 48
- Walker, J.E., see Smith, V.R. 263
- Wang, X., see Pariselli, F. 322
- Wasilewski, M., see Wieckowski, M.R. 316
- Weber, J., see Senior, A.E. 54
- Weber, J., Wilke-Mounts, S. and Senior, A.E.
Quantitative determination of binding affinity of delta subunit in *Escherichia coli* F₁-ATPase 55
- Wei, Y.-H., see Chen, Y. 323
- Weiden, N., see Grimaldi, S. 87
- Weiner, J.H., see Rothery, R.A. 125
- Weiner, J.H., see Geijer, P. 129
- Wenz, T. and Hunte, C.
Structure-function relationships in the cytochrome *bc*₁ complex of *Saccharomyces cerevisiae* 228
- Whelan, H., see Wong-Riley, M. 111
- Whelan, J., see Glaser, E. 64
- White, S.A., see Singh, A. 202
- White, S.A., see van Boxel, G.I. 204
- Widger, W.R., see Ohnishi, T. 196
- Wieckowski, M.R., Wasilewski, M. and Wojtczak, L.
Effects of *N*-acylethanolamines on isolated mitochondria and cells 316
- Wikström, M., see Backgren, C. 79
- Wikström, M., see Belevich, I. 80
- Wikström, M., see Kaukonen, M. 90
- Wikström, M., see Rauhamäki, V. 101
- Wikström, M., see Tuukkanen, A. 109
- Wikström, M., see Jasaitis, A. 110
- Wikström, M., see Verkhovskaya, M. 205
- Wikström, M., see Bogachev, A.V. 210
- Wild, M.R., Pos, K.M. and Dimroth, P.
Site-directed sulfhydryl labeling of the oxaloacetate decarboxylase Na pump of *Klebsiella pneumoniae*: helix VIII comprises a portion of the sodium ion channel 74
- Wilke-Mounts, S., see Weber, J. 55
- Williams, S.L., see Taanman, J.-W. 68
- Wojtczak, L., see Schönfeld, P. 309
- Wojtczak, L., see Wieckowski, M.R. 316
- Wollman, F.-A., see Finazzi, G. 63
- WongFongSang, H.W., see Gomes-Laranjo, J.C.E. 236
- Wong-Riley, M., Liang, H.L., Eells, J. and Whelan, H.
Effects of various wavelengths in the near infrared range on cytochrome *c* oxidase in primary neurons functionally inactivated by tetrodotoxin 111
- Wussling, M., see Chen, Y. 323
- Xavier, A.V., see Lemos, R.S. 140
- Xavier Petit, P., see Gabriel, B. 321
- Yabunaka, H., Kenmochi, A., Nakatogawa, Y. and Miyoshi, H.
Hybrid ubiquinone; novel mitochondrial complex I inhibitor 195
- Yagi, T., see Stroh, A. 73
- Yagi, T., see Seo, B.B. 194
- Yagi, T., see Nakamaru-Ogiso, E. 206
- Yamamoto, Y., see Sambongi, Y. 138
- Yamanaka, T., see Tanigawa, M. 108
- Yamashita, E., see Muramoto, K. 112
- Yamato, I., see Kawano, M. 32
- Yamato, T., see Tanigawa, M. 108
- Yankovskaya, V., see Cecchini, G. 126
- Yankovskaya, V., see Horsefield, R. 131
- Yano, T., see Ohnishi, T. 196
- Yao, M., see Muramoto, K. 112
- Yao, Z.-X., see Delavoie, F. 256
- Yeh, S.-R., see Ji, H. 102
- Yoshikawa, S., see Shimokata, K. 105
- Yoshikawa, S., see Muramoto, K. 112
- Yu, C.-A., see Tso, S.-C. 229
- Yu, L., see Tso, S.-C. 229
- Yuen, T.L., see Kongas, O. 291
- Žáčková, M., see Ježek, P. 255
- Zakharyan, E., see Bagramyan, K. 56
- Zannoni, D., see Borsetti, F. 242
- Zhang, J., see Böhm, A. 81
- Zhang, J., see Borisov, V.B. 113
- Zheng, X., Medvedev, D., Swanson, J. and Stuchebrukhov, A.
Simulation of water in cytochrome oxidase: dynamics of water chains and H₂O exit channels 107
- Zickermann, V., see Bostina, M. 174
- Zickermann, V., Bostina, M., Hunte, C., Radermacher, M. and Brandt, U.
Monoclonal antibodies for the location of individual subunits in complex I 207
- Zickermann, V., see Zwicker, K. 208
- Zierz, S., see NorbertGellerich, F. 285
- Zierz, S., see Chen, Y. 323
- Zimmermann, B., see Börsch, M. 14
- Zoder, R., see Peschek, G.A. 135
- Zvyagilskaya, R., see Lagerstedt, J.O. 165
- Zvyagilskaya, R., Pratt, J.R. and Persson, B.L.
The *Yarrowia lipolytica* yeast offers a fertile field for studying proton- and sodium-coupled phosphate transport systems 259
- Zvyagilskaya, R., Parkhomenko, O. and Abramova, N.
Energy status of *Yarrowia lipolytica* cells grown at alkaline conditions 265
- Zvyagilskaya, R.A., Deryabina, Y.I. and Isakova, E.P.
The Ca-transport system of yeast mitochondria. *Endomyces magnusii* mitochondria show no permeability transition (pore) 264
- Zwicker, K., see Maly, Th. 191
- Zwicker, K., Dröse, S., Zickermann, V. and Brandt, U.
Complex I of *Yarrowia lipolytica*: EPR spectroscopic characterization of redox centers and enzymatic activity 208