

1. S. Papa, A. Freda, F. Palmieri, and F. Salvatore. (1962) Deaminazione degli L-aminoacidi nel rene di ratto. *La Ricerca scientifica*, anno 32, serie 2, parte II-B, vol. 2, n. 2, p.101-105, 1962
2. F. Salvatore, V. Zappia and F. Palmieri. (1962) Deaminazione della L-leucina nel tessuto epatico e renale di ratto. *Bollettino della Società Italiana di Biologia Sperimentale* 38, 1882–1885
3. C. Saccone, S. Papa, F. Palmieri, and E. Quagliariello. (1962) Further studies on the activity of 3-hydroxyanthranilic acid oxidase. *Bollettino della Società Italiana di Biologia Sperimentale* 38, 1378–1381
4. C. Saccone, S. Papa, F. Palmieri, and E. Quagliariello. (1962) Further studies on the activity of 3-hydroxyanthranilic acid oxidase. *Bollettino della Società Italiana di Biologia Sperimentale* 38, 1381–1384
5. S. Papa, C. Saccone, F. Palmieri, A. Francavilla, and E. Quagliariello. (1963) Oxidation of L-glutamate in mitochondria. I. Regulation of glutamic dehydrogenase at the mitochondrial level. *Bollettino della Società Italiana di Biologia Sperimentale* 39, 617–620
6. S. Papa, F. Palmieri, A. Francavilla, and E. Quagliariello. (1963) Effect of dicarboxylic acids of the citric cycle on the oxidation of glutamate in rat liver mitochondria. *Boll Soc Ital Biol Sper* 39, 1629–1633
7. S. Papa, F. Palmieri, C. Saccone, C. Landriscina, and E. Quagliariello. (1964) Inter-regulation at the mitochondrial level between oxidation of glutamate and other respiratory substrates [Interregolazione a livello mitocondriale tra l'ossidazione del glutamato e di altri substrati respiratori]. *La Ricerca scientifica. 2. ser., pt. 2: Rendiconti. Sezione B: Biologica* 31, 357–364
8. C. Saccone, F. Palmieri, M. N. Gadaleta, S. Papa, and E. Quagliariello. (1965) Influence of the addition of vitamin K 3 to rat liver mitochondria on the status of oxide-reduction of pyridine nucleotides and on production of ammonia in presence of glutamate [Influenza dell'aggiunta di vitamina K 3 a mitocondri di fegato di ratto sull]. *Bollettino della Società Italiana di Biologia Sperimentale* 41, 421–425
9. E. Quagliariello, S. Papa, C. Saccone, F. Palmieri, and A. Francavilla. (1965) The oxidation of glutamate by rat-liver mitochondria. *The Biochemical Journal* 95, 742–748
10. E. Quagliariello, F. Palmieri, A. Alifano, and S. Papa. (1966) 3-hydroxyanthranilic acid-mediated respiration in the inhibited respiratory chain. *Biochimica et Biophysica Acta - Bioenergetics* 113, 482–489.
11. E. Quagliariello, F. Palmieri, and M. Cisternino. (1967) Intramitochondrial concentration of respiratory substrates in various functional states [Concentrazione intramitocondriale di substrati respiratori invari stati funzionali.]. *Bollettino della Società Italiana di Biologia Sperimentale* 43, 297–300
12. E. Quagliariello, F. Palmieri, and M. Cisternino. (1967) Inhibition of respiration due to some antibiotics in rat liver mitochondria [Inibizione della respirazione da parte di alcuni antibiotici nei mitocondri di fegato di ratto.]. *Bollettino della Società Italiana di Biologia Sperimentale* 43, 1217–1221
13. E. Quagliariello, and F. Palmieri. (1967) Kinetic data on the oxidation of respiratory substrates in rat liver mitochondria in various functional states [Dati cinetici sull'ossidazione di substrati respiratori nei mitocondri di fegato di ratto in vari stati funzionali.]. *Bollettino della Società Italiana di Biologia Sperimentale* 43, 300–304
14. E. Quagliariello, and F. Palmieri. (1967) On the oxidation of succinate plus rotenone in the presence of other respiratory substrates [Sull'ossidazione del succinato piu' rotenone in presenza di altri substrati respiratori.]. *Bollettino della Società Italiana di Biologia Sperimentale* 43, 1241–1243
15. F. Palmieri, and M. Klingenberg. (1967) On the possible role of structural protein in the binding and translocation of adenine nucleotides in mitochondria. *Biochimica et Biophysica Acta - Bioenergetics* 131, 582–585

16. F. Palmieri, and M. Klingenberg. (1967) Inhibition of Respiration under the Control of Azide Uptake by Mitochondria. *European Journal of Biochemistry* 1, 439–446
17. F. Palmieri, M. Cisternino, and E. Quagliariello. (1967) Inhibition of uptake and oxidation of succinate in rat-liver mitochondria. *Biochimica et Biophysica Acta - Bioenergetics* 143, 625–627
18. F. Palmieri, M. Cisternino, and E. Quagliariello. (1967) Effect of nigericin on the oxidation of succinate and of malate plus glutamate in rat liver mitochondria [Effetto della nigericina sull'ossidazione del succinato e del malato piu' glutammato nei mitocondri di fegato di ratto.]. *Bollettino della Società Italiana di Biologia Sperimentale* 43, 1221–1224
19. F. Palmieri, M. Cisternino, and E. Quagliariello. (1967) On the effect of citrate on the oxidation of succinate plus rotenone in rat liver mitochondria [Sull'influenza del citrato sull'ossidazione del succinato piu' rotenone nei mitocondri di fegato di ratto.]. *Bollettino della Società Italiana di Biologia Sperimentale* 43, 1244–1247
20. E. Quagliariello, and F. Palmieri. (1968) Gradient of anions in rat liver mitochondria in presence of inhibitors of the respiratory chain and oligomycin [Gradiente di anioni nei mitocondri di fegato di ratto in presenza di inibitori della catena respiratoria ed oligomicina.]. *Bollettino della Società Italiana di Biologia Sperimentale* 44, 925–929
21. E. Quagliariello, and F. Palmieri. (1968) Control of Succinate Oxidation by Succinate Uptake by Rat Liver Mitochondria. *European Journal of Biochemistry* 4, 20–27
22. F. Palmieri, and E. Quagliariello. (1968) Preliminary data on the mechanism of inhibition of accumulation of anions in mitochondria by uncoupling agents [Preliminari indicazioni sul meccanismo di inibizione dell'accumulo di anioni nei mitocondri da parte dei disaccoppianti.]. *Bollettino della Società Italiana di Biologia Sperimentale* 44, 929–932
23. E. Quagliariello, F. Palmieri, G. Prezioso, and M. Klingenberg. (1969) Kinetics of succinate uptake by rat-liver mitochondria. *FEBS Letters* 4, 251–254
24. F. Palmieri, and E. Quagliariello. (1969) Correlation between Anion Uptake and the Movement of K^+ and H^+ across the Mitochondrial Membrane. *European Journal of Biochemistry* 8, 473–481
25. E. Quagliariello, and F. Palmieri. (1970) Elucidation by ionophores of the a ΔpH control of anion distribution across the mitochondrial membrane. *FEBS Letters* 8, 105–108
26. F. Palmieri, E. Quagliariello, and M. Klingenberg. (1970) Distribution of anions across the mitochondrial membrane. *Biochemical Journal* 116, 36P
27. F. Palmieri, E. Quagliariello, and M. Klingenberg. (1970) Quantitative Correlation between the Distribution of Anions and the pH Difference across the Mitochondrial Membrane. *European Journal of Biochemistry* 17, 230–238
28. F. Palmieri, and E. Quagliariello. (1970) Permeation of azide through the mitochondrial membrane [Permeazione dell'azide attraverso la membrana mitocondriale.]. *Bollettino della Società Italiana di Biologia Sperimentale* 46, 125–128
29. F. Palmieri, G. Prezioso, and E. Quagliariello. (1970) Mechanism of action of antibiotics, ion transporters, on the distribution of respiratory substrates between the intra- and extra-mitochondrial compartment [Meccanismo dell'azione di antibiotici, trasportatori di ioni, sulla distribuzione dei substrati res.]. *Bollettino della Società Italiana di Biologia Sperimentale* 46, 121–125
30. E. Quagliariello, and F. Palmieri. (1971) Effects of tryptophan metabolites on enzymes of oxidative phosphorylation. *American Journal of Clinical Nutrition* 24, 751–763
31. E. Quagliariello, G. Genchi, and F. Palmieri. (1971) Respiration-dependent anion uptake by rat liver mitochondria. *FEBS Letters* 13, 253–257
32. G. Prezioso, F. Palmieri, and E. Quagliariello. (1971) Effect of p-trifluoromethoxy-phenylhydrazine of carbonylcyanide on the kinetics of dicarboxylic acid uptake in rat liver mitochondria [Effetto del p-trifluorometossi-fenilidrazone del carbonil-cianuro sulla cinetica

- dell'assunzione degli acidi dicarbossilici]. *Bollettino della Società Italiana di Biologia Sperimentale* 47, 637–641
33. F. Palmieri, G. Prezioso, E. Quagliariello, and M. Klingenberg. (1971) Kinetic Study of the Dicarboxylate Carrier in Rat Liver Mitochondria. *European Journal of Biochemistry* 22, 66–74
 34. G. Prezioso, F. Palmieri, and E. Quagliariello. (1972) Kinetic study of the effect of uncouplers on substrate uptake by rat-liver mitochondria. *Journal of Bioenergetics* 3, 377–385
 35. S. Passarella, F. Palmieri, I. Stipani, and E. Quagliariello. (1972) Specificity of the carrier of dicarboxylic acids in rat liver mitochondria. II [Specificità del carrier degli acidi dicarbossilici nei mitocondri di fegato di ratto. II]. *Bollettino della Società Italiana di Biologia Sperimentale* 48, 345–347
 36. S. Passarella, F. Palmieri, G. Genchi, I. Stipani, and E. Quagliariello. (1972) Specificity of the carrier of dicarboxylic acids in rat liver mitochondria. I [Specificità del carrier degli acidi dicarbossilici nei mitocondri di Fegato di ratto.]. *Bollettino della Società Italiana di Biologia Sperimentale* 48, 341–345
 37. F. Palmieri, I. Stipani, E. Quagliariello, and M. Klingenberg. (1972) Kinetic Study of the Tricarboxylate Carrier in Rat Liver Mitochondria. *European Journal of Biochemistry* 26, 587–594
 38. F. Palmieri, E. Quagliariello, and M. Klingenberg. (1972) Kinetics and Specificity of the Oxoglutarate Carrier in Rat Liver Mitochondria. *European Journal of Biochemistry* 29, 408–416
 39. H. Meisner, F. Palmieri, and E. Quagliariello. (1972) Effect of Cations and Protons on the Kinetics of Substrate Uptake in Rat Liver Mitochondria. *Biochemistry* 11, 949–955
 40. G. Genchi, F. Palmieri, S. Passarella, and E. Quagliariello. (1972) Quantitative evaluation of the specific binding sites for glutamate in the mitochondrial membrane [Valutazione quantitativa dei siti specifici di legame per il glutammato nella membrana mitocondriale.]. *Bollettino della Società Italiana di Biologia Sperimentale* 48, 337–340
 41. S. Passarella, F. Palmieri, and E. Quagliariello. (1973) The role of metal ions in the transport of substrates in mitochondria. *FEBS Letters* 38, 91–95
 42. S. Passarella, and F. Palmieri. (1973) Existence of two binding sites for the substrates of the carrier of decarboxylic acids in rat liver mitochondria [Esistenza di 2 situ di legame per i substrati del carrier degli acidi dicarbossilici nei mitocondri di fegato di ratto]. *Bollettino della Società Italiana di Biologia Sperimentale* 49, 263–269
 43. F. Palmieri, G. Genchi, and E. Quagliariello. (1973) Mechanism of transport of glutamic acid across the membrane of the rat liver mitochondria [Meccanismo di trasporto dell'acido glutammico attraverso la membrana dei mitocondri di fegato di ratto]. *Bollettino della Società Italiana di Biologia Sperimentale* 49, 270–276
 44. F. Palmieri, S. Passarella, I. Stipani, and E. Quagliariello. (1974) Mechanism of inhibition of the dicarboxylate carrier of mitochondria by thiol reagents. *Biochimica et Biophysica Acta - Bioenergetics* 333, 195–208
 45. A. De Santis, G. Borraccino, F. Palmieri, and O. Arrigoni. (1974) Effects of phenyl succinate, butyl malonate and benzyl malonate on oxidation of dicarboxylic acids in purified mitochondria from *Phaseolus vulgaris* [Effetto del fenilsuccinato, butilmalonato e benzilmalonato sull'ossidazione degli acidi dicarbossilici in]. *Bollettino della Società Italiana di Biologia Sperimentale* 50, 195–199
 46. M. Crompton, F. Palmieri, M. Capano, and E. Quagliariello. (1974) The transport of thiosulphate in rat liver mitochondria. *FEBS Letters* 46, 247–250
 47. M. Crompton, F. Palmieri, M. Capano, and E. Quagliariello. (1974) The transport of sulphate and sulphite in rat liver mitochondria. *Biochemical Journal* 142, 127–137
 48. G. Borraccino, A. De Santis, O. Arrigoni, and F. Palmieri. (1974) Permeability of plant mitochondrial membranes to potassium and chloride ions [Sulla permeabilità al potassio ed al

- cloro dei mitocondri vegetali]. *Bollettino della Società Italiana di Biologia Sperimentale* 50, 1360–1365
49. G. Genchi, I. Stipani, F. Francia, G. Prezioso, G. Santoro, and F. Palmieri. (1975) Solubilization and partial purification of a protein with high citrate-binding from the mitochondrial membrane [Solubilizzazione e parziale purificazione dalla membrana mitocondriale di una proteina ad alta affinità di legame per il citrato]. *Bollettino della Società Italiana di Biologia Sperimentale* 51, 1259–1265
 50. A. De Santis, G. Borraccino, O. Arrigoni, and F. Palmieri. (1975) The mechanism of phosphate permeation in purified bean mitochondria. *Plant and Cell Physiology* 16, 911–923
 51. M. Crompton, F. Palmieri, M. Capano, and E. Quagliariello. (1975) A kinetic study of sulphate transport in rat liver mitochondria. *Biochemical Journal* 146, 667–673
 52. I. Stipani, G. Genchi, and F. Palmieri. (1976) Quantitative evaluation of the citric acid carrier in the mitochondrial membrane. - I [Valutazione quantitativa del trasportatore dell'acido citrico della membrana mitocondriale. - Nota I]. *Bollettino della Società Italiana di Biologia Sperimentale* 52, 1282–1287
 53. I. Stipani, G. Prezioso, G. Genchi, and F. Palmieri. (1976) Evaluation of the citric acid carrier in the mitochondrial membrane. II [Valutazione quantitativa del trasportatore dell'acido citrico della membrana mitocondriale. - Nota II]. *Bollettino della Società Italiana di Biologia Sperimentale* 52, 1288–1293
 54. I. Stipani, F. Francia, F. Palmieri, and E. Quagliariello. (1976) Inhibition by agaric acid of citrate transport in mitochondria [Inibizione dell'acido agarico sul trasporto del citrato nei mitocondri]. *Bollettino della Società Italiana di Biologia Sperimentale* 52, 812–818
 55. G. Prezioso, I. Stipani, and F. Palmieri. (1976) Metabolite transport in submitochondrial particles [Trasporto di metaboliti nelle particelle submitochondriali]. *Bollettino della Società Italiana di Biologia Sperimentale* 52, 449–454
 56. A. Fonyó, F. Palmieri, and E. Quagliariello. (1976) Carrier-mediated transport of metabolites in mitochondria. *Horizons in biochemistry and biophysics* 2, 60–105
 57. A. Desantis, O. Arrigoni, and F. Palmieri. (1976) Carrier-mediated transport of metabolites in purified bean mitochondria. *Plant and Cell Physiology* 17, 1221–1233
 58. I. Stipani, F. Francia, F. Palmieri, and E. Quagliariello. (1977) A new powerful inhibitor of the tricarboxylate carrier in rat liver mitochondria. *Bulletin of Molecular Biology and Medicine* 2, 72–79
 59. G. Prezioso, I. Stipani, F. Palmieri, and E. Quagliariello. (1977) Transport of citrate in submitochondrial particles. *FEBS Letters* 81, 249–252
 60. S. Passarella, F. Palmieri, and E. Quagliariello. (1977) The transport of oxaloacetate in isolated mitochondria. *Archives of Biochemistry and Biophysics* 180, 160–168
 61. F. Palmieri, G. Genchi, I. Stipani, P. Riccio, and E. Quagliariello. (1977) The tricarboxylate carrier of the mitochondrial membrane: solubilization and partial purification of citrate-binding protein from submitochondrial particles. *Biochemical Society Transactions* 5, 527–531
 62. E. Lovaas, and F. Palmieri. (1977) A new method for rapid determination of optimal conditions for organelle purification. *Bulletin of Molecular Biology and Medicine* 2, 199–205
 63. I. Stipani, G. Prezioso, F. Francia, and F. Palmieri. (1978) The transport of oxoglutarate in submitochondrial particles. *Bulletin of Molecular Biology and Medicine* 3, 197–205
 64. S. Passarella, F. Palmieri, and E. Quagliariello. (1978) The transport of oxaloacetate in rat heart mitochondria. *FEBS Letters* 90, 61–64
 65. F. Palmieri, I. Stipani, and V. Iacobazzi. (1979) The transport of l-cysteinesulfinate in rat liver mitochondria. *Biochimica et Biophysica Acta - Biomembranes* 555, 531–546
 66. F. Palmieri, and M. Klingenberg. (1979) Direct Methods for Measuring Metabolite Transport and Distribution in Mitochondria. *Methods in Enzymology* 56, 279–301

67. I. Stipani, R. Krämer, F. Palmieri, and M. Klingenberg. (1980) Citrate transport in liposomes reconstituted with Triton extracts from mitochondria. *Biochemical and Biophysical Research Communications* 97, 1206–1214
68. I. Stipani, V. Iacobazzi, and F. Palmieri. (1980) Relationship between cysteinesulfinat and aspartate transport in mitochondria [Interrelazione fra il trasporto di cisteinsulfinato e aspartato nei mitocondri.]. *Bollettino della Società Italiana di Biologia Sperimentale* 56, 1012–1018
69. I. Stipani, V. Bonvino, N. Schiavulli, and F. Palmieri. (1981) Movement of H⁺ associated to the transport of sulphite, sulphate and thiosulphate in rat liver mitochondria [Trasporto di H⁺ nei mitocondri indotto dall'aggiunta di solfito, solfato e tiosolfato]. *Bollettino della Società Italiana di Biologia Sperimentale* 57, 1430–1436
70. M. Polemio, G. Genchi, F. Palmieri, and C. Testini. (1981) Glutamic-dehydrogenase activity inhibition by phenoxyacilic acids. *Plant and Soil* 63, 369–375
71. H. V. J. Kolbe, J. Böttrich, G. Genchi, F. Palmieri, and B. Kadenbach. (1981) Isolation and reconstruction of the phosphate-transport system from pig heart mitochondria. *FEBS Letters* 124, 265–269
72. J. Houštek, S. Pavelka, J. Kopecký, Z. Drahota, and F. Palmieri. (1981) Is the mitochondrial dicyclohexylcarbodiimide-reactive protein of Mr 33 000 identical with the phosphate transport protein? *FEBS Letters* 130, 137–140
73. F. Palmieri and I. Stipani (1981) Electroneutral and electrogenic transport of anions across the mitochondrial inner membrane. *Biol. Zbl.* 100, 515-526.
74. P. Mende, H. V. J. Kolbe, B. Kadenbach, I. Stipani, and F. Palmieri. (1982) Reconstitution of the Isolated Phosphate Transport System of Pig Heart Mitochondria. *European Journal of Biochemistry* 128, 91–95
75. T. König, I. Stipani, I. Horváth, and F. Palmieri. (1982) Inhibition of mitochondrial substrate anion translocators by a synthetic amphipathic polyanion. *Journal of Bioenergetics and Biomembranes* 14, 297–305
76. B. Kadenbach, P. Mende, H. V. J. Kolbe, I. Stipani, and F. Palmieri. (1982) The mitochondrial phosphate carrier has an essential requirement for cardiolipin. *FEBS Letters* 139, 109–112
77. H. Freitag, G. Genchi, R. Benz, F. Palmieri, and W. Neupert. (1982) Isolation of mitochondrial porin from *Neurospora crassa*. *FEBS Letters* 145, 72–76
78. V. de Pinto, M. Tommasino, F. Palmieri, and B. Kadenbach. (1982) Purification of the active mitochondrial phosphate carrier by affinity chromatography with an organomercurial agarose column. *FEBS Letters* 148, 103–106
79. A. Corcelli, G. Prezioso, F. Palmieri, and C. Storelli. (1982) Electroneutral Na⁺/dicarboxylic amino acid cotransport in rat intestinal brush border membrane vesicles. *Biochimica et Biophysica Acta - Bioenergetics* 689, 97–105
80. I. Stipani, and F. Palmieri. (1983) Purification of the active mitochondrial tricarboxylate carrier by hydroxylapatite chromatography. *FEBS Letters* 161, 269–274
81. J. Houstek, E. Bertoli, I. Stipani, S. Pavelka, F. M. Megli, and F. Palmieri. (1983) Characterization of sulphhydryl groups of the mitochondrial phosphate translocator by a maleimide spin label. *FEBS Letters* 154, 185–190
82. F. Bisaccia, and F. Palmieri. (1984) Specific elution from hydroxylapatite of the mitochondrial phosphate carrier by cardiolipin. *Biochimica et Biophysica Acta - Bioenergetics* 766, 386–394
83. G. Prezioso, V. Bonvino, and F. Palmieri. (1985) Transport of acidic amino acids in enterocyte brush border membrane vesicles. *Italian Journal of Biochemistry* 34, 392A--393A
84. V. de Pinto, M. Tommasino, R. Benz, and F. Palmieri. (1985) The 35 kDa DCCD-binding protein from pig heart mitochondria is the mitochondrial porin. *Biochimica et Biophysica Acta - Biomembranes* 813, 230–242
85. V. De Pinto, and F. Palmieri. (1985) Identification and characterization of the 35 kDa DCCD-binding protein from pig heart mitochondria. *Italian Journal of Biochemistry* 34, 390A-392A

86. F. Bisaccia, G. Prezioso, and F. Palmieri. (1985) Purification of the mitochondrial phosphate carrier by chromatography on hydroxylapatite in the presence of cardiolipin. *Italian Journal of Biochemistry* 34, 394A-395A
87. F. Bisaccia, C. Indiveri, and F. Palmieri. (1985) Purification of reconstitutively active α -oxoglutarate carrier from pig heart mitochondria. *Biochimica et Biophysica Acta - Bioenergetics* 810, 362–369
88. I. Stipani, V. Zara, L. Zaki, G. Prezioso, and F. Palmieri. (1986) Inhibition of the mitochondrial tricarboxylate carrier by arginine-specific reagents. *FEBS Letters* 205, 282–286
89. F. Palmieri, I. Stipani, G. Prezioso, and R. Krämer. (1986) Partial Purification and Reconstitution of the Tricarboxylate Carrier from Rat Liver Mitochondria. *Methods in Enzymology* 125, 692–696
90. O. Ludwig, V. De Pinto, F. Palmieri, and R. Benz. (1986) Pore formation by the mitochondrial porin of rat brain in lipid bilayer membranes. *Biochimica et Biophysica Acta - Bioenergetics* 860, 268–276
91. M. Tommasino, G. Prezioso, and F. Palmieri. (1987) Photoaffinity labeling of the mitochondrial phosphate carrier by 4-azido-2-nitrophenyl phosphate. *Biochimica et Biophysica Acta - Bioenergetics* 890, 39–46
92. C. Indiveri, F. Palmieri, F. Bisaccia, and R. Krämer. (1987) Kinetics of the reconstituted 2-oxoglutarate carrier from bovine heart mitochondria. *Biochimica et Biophysica Acta - Bioenergetics* 890, 310–318
93. C. Indiveri, R. Krämer, and F. Palmieri. (1987) Reconstitution of the malate/aspartate shuttle from mitochondria. *J. Biol. Chem.* 262, 15979–15983
94. de Pinto, V., Prezioso, G., and Palmieri, F. (1987) A simple and rapid method for the purification of the mitochondrial porin from mammalian tissues. *Biochimica et Biophysica Acta - Bioenergetics* 905, 499–502
95. V. De Pinto, O. Ludwig, J. Krause, R. Benz, and F. Palmieri. (1987) Porin pores of mitochondrial outer membranes from high and low eukaryotic cells: biochemical and biophysical characterization. *Biochimica et Biophysica Acta - Bioenergetics* 894, 109–119
96. V. Zara, and F. Palmieri. (1988) Inhibition and labelling of the mitochondrial 2-oxoglutarate carrier by eosin-5-maleimide. *FEBS Letters* 236, 493–496
97. C. Indiveri, L. Capobianco, and F. Palmieri. (1988) Kinetics of the mitochondrial dicarboxylate carrier reconstituted into liposomes. *Italian Journal of Biochemistry* 37, 321A-323A
98. G. Genchi, G. Petrone, A. De Palma, A. Cambria, and F. Palmieri. (1988) Interaction of phenylisothiocyanates with the mitochondrial phosphate carrier. I. Covalent modification and inhibition of phosphate transport. *Biochimica et Biophysica Acta - Bioenergetics* 936, 413–420
99. F. Bisaccia, C. Indiveri, and F. Palmieri. (1988) Purification and reconstitution of two anion carriers from rat liver mitochondria: The dicarboxylate and the 2-oxoglutarate carrier. *Biochimica et Biophysica Acta - Bioenergetics* 933, 229–240
100. F. Bisaccia, C. Indiveri, A. De Palma, V. Iacobazzi, and F. Palmieri. (1988) Purification of the dicarboxylate and the oxoglutarate carriers from rat liver mitochondria. *Italian Journal of Biochemistry* 37, 319A-321A
101. G. Wolf, G. Genchi, and F. Palmieri. (1989) Inhibition of the mitochondrial phosphate carrier by a reaction with a carboxyl group reagent. *Biochemical and Biophysical Research Communications* 162, 212–216
102. J. A. Towbin, M. Minter, D. Brdiczka, V. Adams, V. De Pinto, F. Palmieri, and E. R. B. McCabe. (1989) Demonstration and characterization of human cardiac porin: A voltage-dependent channel involved in adenine nucleotide movement across the outer mitochondrial membrane. *Biochemical Medicine and Metabolic Biology* 42, 161–169

103. F. Palmieri, and V. De Pinto. (1989) Purification and properties of the voltage-dependent anion channel of the outer mitochondrial membrane. *Journal of Bioenergetics and Biomembranes* 21, 417–425
104. R. Krämer, and F. Palmieri. (1989) Molecular aspects of isolated and reconstituted carrier proteins from animal mitochondria. *Biochimica et Biophysica Acta - Bioenergetics* 974, 1–23
105. C. Indiveri, and F. Palmieri. (1989) Purification of the mitochondrial carnitine carrier by chromatography on hydroxyapatite and celite. *FEBS Letters* 253, 217–220
106. Indiveri, C., Dierks, T., Krämer, R., and Palmieri, F. (1989) Kinetic discrimination of two substrate binding sites of the reconstituted dicarboxylate carrier from rat liver mitochondria. *Biochimica et Biophysica Acta - Bioenergetics* 977, 194–199
107. C. Indiveri, L. Capobianco, R. Krämer, and F. Palmieri. (1989) Kinetics of the reconstituted dicarboxylate carrier from rat liver mitochondria. *Biochimica et Biophysica Acta - Bioenergetics* 977, 187–193
108. V. de Pinto, R. Benz, and F. Palmieri. (1989) Interaction of non-classical detergents with the mitochondrial porin: A new purification procedure and characterization of the pore-forming unit. *European Journal of Biochemistry* 183, 179–187
109. V. De Pinto, R. Benz, C. Caggese, and F. Palmieri. (1989) Characterization of the mitochondrial porin from *Drosophila melanogaster*. *Biochimica et Biophysica Acta - Biomembranes* 987, 1–7
110. F. Bisaccia, A. De Palma, and F. Palmieri. (1989) Identification and purification of the tricarboxylate carrier from rat liver mitochondria. *Biochimica et Biophysica Acta - Bioenergetics* 977, 171–176
111. V. Zara, R. De Benedittis, C.I. Ragan and F. Palmieri (1990). Immunological characterization of the mitochondrial 2-oxoglutarate carrier from liver and heart. Organ specificity. *FEBS Letters* 263, 295-298
112. F. Palmieri, F. Bisaccia, L. Capobianco, V. Iacobazzi, C. Indiveri and V. Zara (1990). Structural and functional properties of mitochondrial anion carriers. *Biochimica et Biophysica Acta - Bioenergetics* 1018, 147-150
113. F. Bisaccia, A. De Palma, G. Prezioso and F. Palmieri (1990). Kinetic characterization of the reconstituted tricarboxylate carrier from rat liver mitochondria. *Biochimica et Biophysica Acta - Bioenergetics* 1019, 250-256
114. C. Indiveri, A. Tonazzi and F. Palmieri (1990). Identification and purification of the carnitine carrier from rat liver mitochondria. *Biochimica et Biophysica Acta - Bioenergetics* 1020, 81-86
115. V. De Pinto, J. Aljamal, R. Benz and F. Palmieri (1990). Positive residues involved in the voltage-gating of the mitochondrial porin-channel are localized in the external moiety of the pore. *FEBS Letters* 274, 122-126
116. M.J. Runswick, J.E. Walker, F. Bisaccia, V. Iacobazzi and F. Palmieri (1990). Sequence of the bovine 2-oxoglutarate/malate carrier protein: structural relationship to other mitochondrial transport proteins. *Biochemistry* 29, 11033-11040
117. V. De Pinto, V. Zara, R. Benz, G. Gnoni and F. Palmieri (1991). Characterization of pore-forming activity in liver mitochondria from *Anguilla Anguilla*. Two porins in mitochondria? *Biochimica et Biophysica Acta - Biomembranes* 1061, 279-286
118. C. Indiveri, T. Dierks, R. Krämer and F. Palmieri (1991). Reaction mechanism of the reconstituted oxoglutarate carrier from bovine heart mitochondria. *European Journal of Biochemistry* 198, 339-347
119. V. Zara, J. Rassow, E. Wachter, M. Tropschug, J.E. Walker, F. Palmieri, W. Neupert and N. Pfanner (1991). Biogenesis of the mitochondrial phosphate carrier. *European Journal of Biochemistry* 198, 405-410

120. L. Capobianco, G. Brandolin and F. Palmieri (1991). Transmembrane topography of the mitochondrial phosphate carrier explored by peptide-specific antibodies and enzymatic digestion. *Biochemistry* 30, 4963-4969
121. C. Indiveri, A. Tonazzi, G. Prezioso and F. Palmieri (1991). Kinetic characterization of the reconstituted carnitine carrier from rat liver mitochondria. *Biochimica et Biophysica Acta* 1065, 231-238
122. G. Genchi, A. De Santis, C. Ponzzone and F. Palmieri (1991). Partial purification and reconstitution of the α -ketoglutarate carrier from corn (*Zea mays* L.) mitochondria. *Plant Physiology* 96, 1003-1007
123. V. Dolce, G. Fiermonte, A. Messina and F. Palmieri (1991). Nucleotide sequence of a human heart cDNA encoding the mitochondrial phosphate carrier. *DNA Sequence* 2, 131-134
124. C. Indiveri, A. Tonazzi and F. Palmieri (1991). Characterization of the unidirectional transport of carnitine catalyzed by the reconstituted carnitine carrier from rat liver mitochondria. *Biochimica et Biophysica Acta - Biomembranes* 1069, 110-116
125. V. De Pinto, G. Prezioso, F. Thinner, T.A. Link and F. Palmieri (1991). Peptide-specific antibodies and proteases as probes of the transmembrane topology of the bovine heart mitochondrial porin. *Biochemistry* 30, 10191-10200
126. V. De Pinto, J.A. Al Jamal, R. Benz, G. Genchi and F. Palmieri (1991). Characterization of SH groups in porin of bovine heart mitochondria. Porin cysteines are localized in the channel walls. *European Journal of Biochemistry* 202, 903-911
127. F. Palmieri, F. Bisaccia, L. Capobianco, V. Dolce, V. Iacobazzi, C. Indiveri and V. Zara. Structural and functional properties of two mitochondrial transport proteins: the phosphate carrier and the oxoglutarate carrier. In *"Molecular Mechanisms of Transport"* (E. Quagliariello and F. Palmieri, eds.), Elsevier Science Publishers B.V., Amsterdam, 1992, p. 151-158
128. V. Zara, N. Pfanner and F. Palmieri. Transport of the mammalian phosphate carrier into mitochondria. In *"Molecular Mechanisms of Transport"* (E. Quagliariello and F. Palmieri, eds.), Elsevier Science Publishers B.V., Amsterdam, 1992, p. 249-256
129. V. De Pinto and F. Palmieri. Topology of the mitochondrial porin. In *"Molecular Mechanisms of Transport"* (E. Quagliariello and F. Palmieri, eds.), Elsevier Science Publishers B.V., Amsterdam, 1992, p. 165-172
130. V. De Pinto and F. Palmieri (1992). Transmembrane arrangement of mitochondrial porin or voltage-dependent anion channel (VDAC). *Journal of Bioenergetics and Biomembranes* 24, 21-26
131. V. Zara, F. Palmieri, K. Mahlke and N. Pfanner (1992). The cleavable presequence is not essential for import and assembly of the phosphate carrier of mammalian mitochondria, but enhances the specificity and efficiency of import. *Journal of Biological Chemistry* 267, 12077-12081
132. F. Bisaccia, A. De Palma and F. Palmieri (1992). Identification and purification of the aspartate/glutamate carrier from bovine heart mitochondria. *Biochimica et Biophysica Acta* 1106, 291-296
133. C. Indiveri, A. Tonazzi and F. Palmieri (1992). Identification and purification of the ornithine/citrulline carrier from rat liver mitochondria. *European Journal of Biochemistry* 207, 449-454
134. C. Indiveri, A. Tonazzi, T. Dierks, R. Krämer and F. Palmieri (1992). The mitochondrial carnitine carrier: characterization of SH-groups relevant for its transport function. *Biochimica et Biophysica Acta - Bioenergetics* 1140, 53-58
135. R. Krämer and F. Palmieri. Metabolite carriers in mitochondria. In *"Molecular Mechanisms in Bioenergetics"* or *"New Comprehensive Biochemistry 12/1992"*, Chapter 16 (L. Ernster ed.), Elsevier Science Publishers B.V., Amsterdam, 1992, 23, 359-384

136. F. Palmieri, F. Bisaccia, V. Iacobazzi, C. Indiveri and V. Zara (1992). Mitochondrial substrate carriers. *Biochimica et Biophysica Acta - Bioenergetics* 1101, 223-227
137. G. Fiermonte, M.J. Runswick, J.E. Walker and F. Palmieri (1992). Sequence and pattern of expression of a bovine homologue of human mitochondrial transport protein associated with Grave's disease. *DNA Sequence* 3, 71-78
138. V. Iacobazzi, F. Palmieri, M.J. Runswick and J.E. Walker (1992). Sequences of the human and bovine genes for the mitochondrial 2-oxoglutarate carrier. *DNA Sequence* 3, 79-88
139. F. Bisaccia, A. De Palma, T. Dierks, R. Krämer and F. Palmieri (1993). Reaction mechanism of the reconstituted tricarboxylate carrier from rat liver mitochondria. *Biochimica et Biophysica Acta - Bioenergetics* 1142, 139-145
140. J.A. Aljamal, G. Genchi, V. De Pinto, L. Stefanizzi, A. De Santis, R. Benz and F. Palmieri (1993). Purification and characterization of porin from corn (*Zea mays* L.) mitochondria. *Plant Physiology* 102, 615-621
141. V. De Pinto, J.A. Al Jamal and F. Palmieri (1993). Localization of the dicyclohexylcarbodiimide-reactive glutamate residue in the bovine heart mitochondrial porin. *Journal of Biological Chemistry* 268, 12977-12982
142. C. Indiveri, Prezioso, T. Dierks, R. Krämer and F. Palmieri (1993). Kinetic characterization of the reconstituted dicarboxylate carrier from mitochondria: a four-binding sites sequential transport system. *Biochimica et Biophysica Acta - Bioenergetics* 1143, 310-318
143. G. Fiermonte, J.E. Walker and F. Palmieri (1993). Abundant bacterial expression and reconstitution of an intrinsic membrane transport protein from bovine mitochondria. *Biochemical Journal* 294, 293-299
144. F. Palmieri, F. Bisaccia, L. Capobianco, V. Dolce, G. Fiermonte, V. Iacobazzi and V. Zara (1993). Transmembrane topology, genes and biogenesis of the mitochondrial phosphate and oxoglutarate carriers. *Journal of Bioenergetics and Biomembranes* 25, 493-501
145. F. Palmieri, C. Indiveri, F. Bisaccia and R. Krämer (1993). Functional properties of purified and reconstituted mitochondrial metabolite carriers. *Journal of Bioenergetics and Biomembranes* 25, 525-535
146. R. Dietmeier, V. Zara, A. Palmisano, F. Palmieri, J. Schlossmann, W. Voos, M. Moczko, G. Kispal and N. Pfanner (1993). Targeting and translocation of the phosphate carrier/p³² to the inner membrane of yeast mitochondria. *Journal of Biological Chemistry* 268, 25958-25964
147. C. Indiveri, A. Tonazzi and F. Palmieri (1994). The reconstituted carnitine carrier from rat liver mitochondria. Evidence for a transport mechanism different from that of the other mitochondrial translocators. *Biochimica et Biophysica Acta - Biomembranes* 1189, 65-73
148. V. De Pinto, R. Caizzi, J.A. Al Jamal, C. Caggese and F. Palmieri. Experimental support to a sixteen-strands model of transmembrane arrangement of mitochondrial porin and preliminary result concerning a multigene family in *Drosophila melanogaster* related to human mitochondrial porin. In *"Molecular Biology of Mitochondrial Transport Systems"* (Eds. M. Forte and M. Colombini), Springer-Verlag, Berlin, 1994, 265-280
149. V. Dolce, V. Iacobazzi, F. Palmieri and J.E. Walker (1994). The sequences of human and bovine genes of the phosphate carrier from mitochondria contain evidence of alternatively spliced forms. *Journal of Biological Chemistry* 269, 10451-10460
150. F. Bisaccia, L. Capobianco, G. Brandolin and F. Palmieri (1994). Transmembrane topography of the mitochondrial oxoglutarate carrier assessed by peptide-specific antibodies and enzymatic cleavage. *Biochemistry* 33, 3705-3713
151. F. Palmieri (1994). Mitochondrial carrier proteins. *FEBS Letters* 346, 48-54
152. V. Dolce, A. Messina, A. Cambria and F. Palmieri (1994). Cloning and sequencing of the rat cDNA encoding the mitochondrial 2-oxoglutarate carrier protein. *DNA Sequence* 5, 103-109
153. C. Indiveri, L. Palmieri and F. Palmieri (1994). Kinetic characterization of the reconstituted ornithine carrier from rat liver mitochondria. *Biochimica et Biophysica Acta - Bioenergetics* 1188, 293-301

154. L. Capobianco, F. Bisaccia, A. Michel, F.S. Sluse and F. Palmieri (1995). The N- and C-termini of the tricarboxylate carrier are exposed to the cytoplasmic side of the inner mitochondrial membrane. *FEBS Letters* 357, 297-300
155. C. Indiveri, A. Tonazzi, N. Giangregorio and F. Palmieri (1995). Probing the active site of the reconstituted carnitine carrier from rat Liver mitochondria with sulphhydryl reagents. *European Journal of Biochemistry* 228, 271-278
156. V. Iacobazzi and F. Palmieri (1995). Nucleotide sequence of a cDNA encoding the ADP/ATP carrier from wheat. *Plant Physiology* 107, 1473
157. I. Stipani, D. Natuzzi, L. Daddabbo, A. Ritieni, G. Randazzo and F. Palmieri (1995). Photoaffinity labeling of the mitochondrial oxoglutarate carrier by azido-phtalonnate. *Biochimica et Biophysica Acta - Biomembranes* 1234, 149-154
158. F. Palmieri, C. Indiveri, F. Bisaccia and V. Iacobazzi (1995). Mitochondrial metabolite carrier proteins: purification, reconstitution and transport studies. *Methods in Enzymology* 260, 349-369
159. S. Marsh, N.P. Carter, V. Dolce, V. Iacobazzi and F. Palmieri (1995). Chromosomal localization of the mitochondrial phosphate carrier gene PHC to 12q23. *Genomics* 29, 814-815
160. F. Bisaccia, L. Capobianco, M. Mazzeo, A. De Palma and F. Palmieri. Further insight into the structural properties of the mitochondrial oxoglutarate carrier. In *"Progress in Cell Research"* vol. 5, (F. Palmieri et al., eds.) 1995, Elsevier Science B.V. Amsterdam, 95-100
161. C. Indiveri, A. Tonazzi, L. Palmieri and F. Palmieri. The purified and reconstituted ornithine carrier from rat liver mitochondria catalyzes three different transport modes. In *"Progress in Cell Research"* vol. 5, (F. Palmieri et al., eds.) 1995, Elsevier Science B.V. Amsterdam, 101-106
162. F. Bisaccia, V. Zara, L. Capobianco, V. Iacobazzi, M. Mazzeo and F. Palmieri (1996). The formation of a disulfide cross-link between the two subunits demonstrates the dimeric structure of the mitochondrial oxoglutarate carrier. *Biochimica et Biophysica Acta - Protein Structure and Molecular Enzymology* 1292, 281-288
163. F. Carbonara, B. Popp, A. Schmid, V. Iacobazzi, G. Genchi, F. Palmieri and R. Benz (1996). The role of sterols in the functional reconstitution of water-soluble mitochondrial porins from plants. *Journal of Bioenergetics and Biomembranes* 28, 181-189
164. L. Capobianco, F. Bisaccia, M. Mazzeo and F. Palmieri (1996). The mitochondrial oxoglutarate carrier: sulphhydryl reagents bind to cysteine 184 and this interaction is enhanced by substrate binding. *Biochemistry* 35, 8974-8980
165. F. Palmieri, F. Bisaccia, L. Capobianco, V. Dolce, G. Fiermonte, V. Iacobazzi, C. Indiveri and L. Palmieri (1996). Mitochondrial metabolite transporters. *Biochimica et Biophysica Acta - Bioenergetics* 1275, 127-132
166. V. Iacobazzi, A. Poli, A. Blanco and F. Palmieri (1996). Nucleotide sequences of two genes (Accession Nos. X95863 for ANT-G1 and X95864 for ANT-G2) encoding the adenine nucleotide translocator of wheat mitochondria (PGR 96-016). *Plant Physiology* 110, 1435-1436 or 1436-1438
167. V. Zara, V. Iacobazzi, L. Siculella, G.V. Gnoni and F. Palmieri (1996). Purification and characterization of the tricarboxylate carrier from eel liver mitochondria. *Biochemical and Biophysical Research Communications* 223, 508-513
168. I. Stipani, G. Mangiullo, V. Stipani, L. Daddabbo, D. Natuzzi and F. Palmieri (1996). Inhibition of the reconstituted mitochondrial oxoglutarate carrier by arginine-specific reagents. *Archives in Biochemistry and Biophysics* 331, 48-54
169. F. Bisaccia, L. Capobianco, M. Mazzeo and F. Palmieri (1996). The mitochondrial oxoglutarate carrier protein contains a disulfide bridge between intramembraneous cysteines 221 and 224. *FEBS Letters* 392, 54-58

170. V. Iacobazzi, A. De Palma and F. Palmieri (1996). Cloning and sequencing of the bovine cDNA encoding the mitochondrial tricarboxylate carrier protein. *Biochimica et Biophysica Acta - Biomembranes* 1284, 9-12
171. G. Genchi, C. Ponzzone, F. Bisaccia, A. De Santis, L. Stefanizzi and F. Palmieri (1996). Purification and characterization of the reconstitutively active adenine nucleotide carrier from maize mitochondria. *Plant Physiology* 112, 845-851
172. V. Zara, K. Dietmeier, A. Palmisano, A. Voza, J. Rassow, F. Palmieri and N. Pfanner (1996). Yeast mitochondria lacking the phosphate carrier/p32 are blocked in phosphate transport but can import preproteins after regeneration of a membrane potential. *Molecular and Cellular Biology* 16, 6524-6531
173. V. Dolce, G. Fiermonte and F. Palmieri (1996). Tissue-specific expression of the two isoforms of the mitochondrial phosphate carrier in bovine tissues. *FEBS Letters* 399, 95-98
174. L. Palmieri, F. Palmieri, M. Runswick and J.E. Walker (1996). Identification by bacterial expression and functional reconstitution of the yeast genomic sequence encoding the mitochondrial dicarboxylate carrier protein. *FEBS Letters* 399, 299-302
175. V. Iacobazzi, G. Lauria and F. Palmieri (1997). Organization and sequence of the human gene for the mitochondrial citrate transport protein. *DNA Sequence* 7, 127-139
176. C. Indiveri, V. Iacobazzi, N. Giangregorio and F. Palmieri (1997). The mitochondrial carnitine carrier protein: cDNA cloning, primary structure, and comparison with other mitochondrial transport proteins. *Biochemical Journal* 321, 713-719
177. F. Palmieri and M. Klingenberg. Direct methods for measuring metabolite transport and distribution in mitochondria. In *"Biomembranes"* (L. Packer and S. Fleischer, eds.), Academic Press, San Diego, 1997, pp. 679-701
178. L. Palmieri, V. De Marco, V. Iacobazzi, F. Palmieri, M.J. Runswick and J.E. Walker (1997). Identification of the yeast ARG-11 gene as a mitochondrial ornithine carrier involved in arginine biosynthesis. *FEBS Letters* 410, 447-451
179. C. Indiveri, A. Tonazzi, I. Stipani and F. Palmieri (1997). The purified and reconstituted ornithine/citrulline carrier from rat liver mitochondria: electrical nature and coupling of the exchange reaction with H⁺ translocation. *Biochemical Journal* 327, 349-356
180. M. Huizing, V. Iacobazzi, L. Ijlst, P. Savelkoul, W. Ruitenbeek, L.P. van den Heuvel, C. Indiveri, J. Smeitink, F.J.M. Trijbels, R.J.A. Wanders and F. Palmieri (1997). Cloning of the human carnitine-acylcarnitine carrier cDNA, and identification of the molecular defect in a patient. *American Journal of Human Genetics* 61, 1239-1245
181. L. Palmieri, F.M. Lasorsa, A. De Palma, F. Palmieri, M.J. Runswick and J.E. Walker (1997). Identification of the yeast ACR1 gene product as a succinate-fumarate transporter essential for growth on ethanol or acetate. *FEBS Letters* 417, 114-118
182. L. Viggiano, V. Iacobazzi, R. Marzella, C. Cassano, M. Rocchi and F. Palmieri (1997). Assignment of the carnitine/acylcarnitine translocase gene (CACT) to human chromosome band 3p21.31 by in situ hybridization. *Cytogenetics and Cell Genetics* 79, 62-63
183. M. Huizing, U. Wendel, W. Ruitenbeek, V. Iacobazzi, L. Ijlst, P.T.M. Veenhuizen, P. Savelkoul, L.P. van den Heuvel, J. Smeitink, R.J.A. Wanders, F.J.M. Trijbels and F. Palmieri (1998). Carnitine-acylcarnitine carrier deficiency: identification of the molecular defect in a patient. *Journal of Inherited Metabolic Disease* 21, 262-267
184. M. Huizing, W. Ruitenbeek, L.P. van den Heuvel, V. Dolce, V. Iacobazzi, J. Smeitink, F. Palmieri and F.J.M. Trijbels (1998). Human mitochondrial transmembrane metabolite carriers: tissue distribution and its implication for mitochondrial disorders. *Journal of Bioenergetics and Biomembranes* 30, 277-284
185. A. Palmisano, V. Zara, A. Hönlinger, A. Voza, P. J.T. Dekker, N. Pfanner and F. Palmieri (1998). Targeting and assembly of the oxoglutarate carrier: general principles for biogenesis of carrier proteins of the mitochondrial inner membrane. *Biochemical Journal* 333, 151-158

186. C. Indiveri, G. Abruzzo, I. Stipani and F. Palmieri (1998). Identification and purification on the reconstitutively active glutamine carrier from rat kidney mitochondria. *Biochemical Journal* 333, 285-290
187. C. Indiveri, V. Iacobazzi, N. Giangregorio and F. Palmieri (1998). Bacterial overexpression, purification and reconstitution of the carnitine/acylcarnitine carrier from rat liver mitochondria. *Biochemical and Biophysical Research Communications* 249, 589-594
188. G. Fiermonte, V. Dolce and F. Palmieri (1998). Expression in *Escherichia coli*, functional characterization, and tissue distribution of isoforms A and B of the phosphate carrier from bovine mitochondria. *Journal of Biological Chemistry* 273, 22782-22787
189. G. Fiermonte, L. Palmieri, V. Dolce, F.M. Lasorsa, F. Palmieri, M.J. Runswick and J.E. Walker (1998). The sequence, bacterial expression and functional reconstitution of the rat mitochondrial dicarboxylate transporter cloned via distant homologs in yeast and *Caenorhabditis elegans*. *Journal of Biological Chemistry* 273, 24754-24759
190. V. Iacobazzi, M.A. Naglieri, C.A. Stanley, R.J.A. Wanders and F. Palmieri (1998). The structure and organization of the human carnitine/acylcarnitine translocase (CACT) gene. *Biochemical and Biophysical Research Communications* 252, 770-774
191. V. Zara, L. Palmieri, M.R. Franco, M. Perrone, G.V. Gnoni and F. Palmieri (1998). Kinetics of the reconstituted tricarboxylate carrier from eel liver mitochondria. *Journal of Bioenergetics and Biomembranes* 30, 555-563
192. E. Pannone, G. Fiermonte, V. Dolce, M. Rocchi and F. Palmieri (1998). Assignment of the human dicarboxylate carrier gene (DIC) to chromosome 17 band 17q25.3. *Cytogenetics and Cell Genetics* 83, 238-239
193. S. Piccininni, V. Iacobazzi, G. Lauria, M. Rocchi and F. Palmieri (1998). Assignment of the oxoglutarate carrier gene (SLC25A11) to human chromosome 17p13.3. *Cytogenetics and Cell Genetics* 83, 256-257
194. M. Huizing, F.J.M. Trijbels, J. Smeitink, L.P. van den Heuvel, W. Ruitenbeek and F. Palmieri. Muscle mitochondrial transmembrane processes in mitochondriocytopathies. In *"Understanding the process of aging"* (Cadenas E., Packer L. Eds.), Marcel Dekker Inc, New York, 1999, pp 327-360
195. F. Palmieri and B. van Ommen. The mitochondrial carrier protein family. In: **Frontiers in Cellular Bioenergetics** (Papa, S., Guerrieri, F. and Tager, J.M., eds.), Kluwer Academic/Plenum Publishers, New York, 1999, pp.489-519
196. L. Palmieri, A. Voza, A. Hönlinger, K. Dietmeier, A. Palmisano, V. Zara and F. Palmieri (1999). The mitochondrial dicarboxylate carrier is essential for the growth of *Saccharomyces cerevisiae* on ethanol or acetate as the sole carbon source. *Molecular Microbiology* 31, 569-577
197. G. Genchi, A. Spagnoletta, A. De Santis, L. Stefanizzi and F. Palmieri (1999). Purification and characterization of the reconstitutively active citrate carrier from maize mitochondria. *Plant Physiology* 120, 841-848
198. C. Indiveri, A. Tonazzi, I. Stipani and F. Palmieri (1999). The purified and reconstituted ornithine/citrulline carrier from rat liver mitochondria catalyzes a second transport mode: the ornithine⁺/H⁺ exchange. *Biochemical Journal* 341, 705-711
199. L. Palmieri, A. Voza, G. Agrimi, V. De Marco, M.J. Runswick, F. Palmieri and J.E. Walker (1999). Identification of the yeast mitochondrial transporter for oxaloacetate and sulfate. *Journal of Biological Chemistry* 274, 22184-22190
200. G. Fiermonte, V. Dolce, R. Arrigoni, M.J. Runswick, J.E. Walker and F. Palmieri (1999). Organization and sequence of the gene for the human mitochondrial dicarboxylate carrier: evolution of the carrier family. *Biochemical Journal* 344, 953-960
201. L. Palmieri, F.M. Lasorsa, V. Iacobazzi, M.J. Runswick, F. Palmieri and J.E. Walker (1999). Identification of the mitochondrial carnitine carrier in *Saccharomyces cerevisiae*. *FEBS Letters* 462, 472-476

202. L. Ijlst, J.P. Ruiten, W. Oostheim, K.E. Niezen-Koning, F. Palmieri and R.J. Wanders. Identification of a missense mutation in a patient with lethal carnithine acyl-carnitine carrier deficiency. In **Current Views of Fatty Acid Oxidation and Ketogenesis: From Organelles to Point Mutations**. (Eds. Quant and Eaton) Kluwer Academic/Plenum Publishers New York, 1999, p. 347-351
203. L. Palmieri, M.J. Runswick, G. Fiermonte, J.E. Walker and F. Palmieri (2000). Yeast Mitochondrial carriers: bacterial expression, biochemical identification and metabolic significance. *Journal of Bioenergetics and Biomembranes* 32, 67-77
204. L. Palmieri, F.M. Lasorsa, A. Voza, G. Agrimi, G. Fiermonte, M.J. Runswick, J.E. Walker and F. Palmieri (2000). Identification and functions of new transporters in yeast mitochondria. *Biochimica et Biophysica Acta - Bioenergetics* 1459, 363-369
205. C. Indiveri, A. Tonazzi, A. De Palma and F. Palmieri (2001). Kinetic mechanism of antiports catalyzed by reconstituted ornithine/citrulline carrier from rat liver mitochondria. *Biochimica et Biophysica Acta - Bioenergetics* 1503, 303-313
206. L. Palmieri, G. Agrimi, M.J. Runswick, I.M. Fearnley, F. Palmieri and J.E. Walker (2001). Identification in *Saccharomyces cerevisiae* of two isoforms of a novel mitochondrial transporter for 2-oxoadipate and 2-oxoglutarate. *Journal of Biological Chemistry* 276, 1916-1922
207. V. Dolce, G. Fiermonte, M.J. Runswick, F. Palmieri and J.E. Walker (2001). The human mitochondrial deoxynucleotide carrier and its role in toxicity of nucleoside antivirals. *Proceedings of the National Academy of Sciences (PNAS)* 98, 2284-2288
208. G. Fiermonte, V. Dolce, L. Palmieri, M. Ventura, M.J. Runswick, F. Palmieri and J.E. Walker (2001). Identification of the human mitochondrial oxodicarboxylate carrier: bacterial expression, reconstitution, functional characterization, tissue distribution, and chromosomal location. *Journal of Biological Chemistry* 276, 8225-8230
209. L. Ijlst, C.W. van Roermund, V. Iacobazzi, W. Oostheim, J.P. Ruiten, J.C. Williams, F. Palmieri and R.J. Wanders (2001). Functional analysis of mutant human carnitine acylcarnitine translocases in yeast. *Biochemical and Biophysical Research Communications* 280, 700-706
210. N. Miraglia, G. Pocsfalvi, P. Ferranti, A. Basile, N. Sannolo, A. Acampora, L. Soleo, F. Palmieri, S. Cairra, B. De Giulio and A. Malorni (2001). Mass spectrometric identification of a candidate biomarker peptide from the *in vitro* interaction of epichlorohydrin with red blood cells. *Journal of Mass Spectrometry* 36, 47-57
211. V. Iacobazzi, M. Ventura, G. Fiermonte, G. Prezioso, M. Rocchi and F. Palmieri (2001). Genomic organization and mapping of the gene (SLC25A19) encoding the human mitochondrial deoxynucleotide carrier (DNC). *Cytogenetics and Cell Genetics* 93, 40-42
212. V. Zara, I. Palmisano, J. Rassow and F. Palmieri (2001). Biogenesis of the dicarboxylate carrier (DIC): translocation across the mitochondrial outer membrane and subsequent release from the TOM channel are membrane potential-independent. *Journal of Molecular Biology* 310, 965-971
213. L. Palmieri, H. Rottensteiner, W. Girzalsky, P. Scarzia, F. Palmieri and R. Erdmann (2001). Identification and functional reconstitution of the yeast peroxisomal adenine nucleotide transporter. *European Molecular Biology Organization Journal (EMBO J)* 20, 5049-5059
214. L. Palmieri, B. Pardo, F.M. Lasorsa, A. del Arco, K. Kobayashi, M. Iijima, M.J. Runswick, J.E. Walker, T. Saheki, J. Satrustegui and F. Palmieri (2001). Citrin and aralar1 are Ca^{2+} -stimulated aspartate/glutamate transporters in mitochondria. *European Molecular Biology Organization Journal (EMBO J)* 20, 5060-5069
215. V. Zara, A.M. Giudetti, L. Siculella, F. Palmieri and G. Gnoni (2001). Covariance of tricarboxylate carrier activity and lipogenesis in liver of polyunsaturated fatty acid (n-6) fed rats. *European Journal of Biochemistry* 268, 5734-5739
216. B.Y.L. Hsu, V. Iacobazzi, Z. Wang, H. Harvie, R.A. Chalmers, J-M. Saudubray, F. Palmieri, A. Gauguly and C.A. Stanley (2001). Aberrant mRNA splicing associated with coding region

- mutations in children with carnitine-acylcarnitine translocase deficiency. *Molecular Genetics Metabolism* 74, 248-255
217. V. Stipani, A.R. Cappello, L. Daddabbo, D. Natuzzi, D.V. Miniero, I. Stipani and F. Palmieri (2001). The mitochondrial oxoglutarate carrier: cysteine-scanning mutagenesis of transmembrane domain IV and sensitivity of cys mutants to sulphydryl reagents. *Biochemistry* 40, 15805-15810
218. E. Z. Jordens, L. Palmieri, M. Huizing, L. P. van den Heuvel, R. C. A. Sengers, A. Doerner, W. Ruitenbeek, J. M. F. Trijbels, J. Valsson, G. Sigfusson, F. Palmieri and J. A. M. Smeitink (2002). Adenine nucleotide translocator 1 deficiency associated with Sengers syndrome. *Annal Neurology* 52, 95-99
219. G. Fiermonte, L. Palmieri, S. Todisco, G. Agrimi, F. Palmieri and J. E. Walker (2002). Identification of the mitochondrial glutamate transporter: bacterial expression, reconstitution, functional characterization, and tissue distribution of two human isoforms. *Journal of Biological Chemistry* 277, 19289-19294
220. C. Indiveri, N. Giangregorio, V. Iacobazzi and F. Palmieri (2002). Site-directed mutagenesis and chemical modification of the six native cysteine residues of the rat mitochondrial carnitine carrier: implications for the role of cysteine-136. *Biochemistry* 41, 8649-8656
221. N. Picault, L. Palmieri, I. Pisano, M. Hodges and F. Palmieri (2002). Identification of a novel transporter for dicarboxylates and tricarboxylates in plant mitochondria: bacterial expression, reconstitution, functional characterization, and tissue distribution. *Journal of Biological Chemistry* 277, 24204-24211
222. M.J. Rosenberg, R. Agarwala, G. Bouffard, J. Davis, G. Fiermonte, M.S. Hilliard, T. Koch, L.M. Kalikin, I. Makalowska, D.H. Morton, E.M. Petty, J.L. Weber, F. Palmieri, R.I. Kelley, A.A. Schaffer and L.G. Biesecker (2002). Mutant deoxynucleotide carrier is associated with congenital microcephaly. *Nature Genetics* 32, 175-179
223. C.M.T. Marobbio, A. Voza, M. Harding, F. Bisaccia, F. Palmieri and J.E. Walker (2002). Identification and reconstitution of the yeast mitochondrial transporter for thiamine pyrophosphate. *European Molecular Biology Organization Journal (EMBO J)* 21, 5653-5661
224. L. Siculella, S. Sabetta, R. di Summa, M. Leo, A.M. Giudetti, F. Palmieri and G.V. Gnoni (2002). Starvation-induced posttranscriptional control of rat liver mitochondrial citrate carrier expression. *Biochemical and Biophysical Research Communications* 299, 418-423
225. A. Spagnoletta, A. De Santis, F. Palmieri and G. Genchi (2002). Purification and characterization of the reconstitutively active adenine nucleotide carrier from mitochondria of Jerusalem Artichoke (*Helianthus Tuberosus* L.) tubers. *Journal of Bioenergetics and Biomembranes* 34, 465-472
226. G. Peluso, O. Petillo, S. Margarucci, G. Mingrone, A.V. Greco, C. Indiveri, F. Palmieri, M.A. Melone, E. Reda and M. Calvani (2002). Decreased mitochondrial carnitine translocase in skeletal muscles impairs utilization of fatty acids in insulin-resistant patients. *Frontiers in Bioscience* 7, a109-116
227. V. Zara, A. Ferramosca, I. Palmisano, F. Palmieri and J. Rassow (2003). Biogenesis of rat mitochondrial citrate carrier (CIC): the N-terminal presequence facilitates the solubility of the preprotein but does not act as a targeting signal. *Journal of Molecular Biology* 325, 399-408
228. M.E. Hoyos, L. Palmieri, T. Wertin, R. Arrigoni, J.C. Polacco and F. Palmieri (2003). Identification of a mitochondrial transporter for basic amino acids in *Arabidopsis thaliana* by functional reconstitution into liposomes and complementation in yeast. *Plant Journal* 33, 1027-1035
229. B. Morozzo della Rocca, G. Lauria, F. Venerini, L. Palmieri, F. Polizio, L. Capobianco, V. Stipani, J. Pedersen, A.R. Cappello, A. Desideri and F. Palmieri (2003). The mitochondrial oxoglutarate carrier: structural and dynamic properties of transmembrane segment IV studied by site-directed spin labeling. *Biochemistry* 42, 5493-5499

230. P. Pérez, O. Martínez, B. Romero, I. Olivas, A.M. Pedregosa, F. Palmieri, F. Laborda and J.R. De Lucas (2003). Functional analysis of mutations in the human carnitine/acylcarnitine translocase in *Aspergillus nidulans*. ***Fungal Genetics and Biology*** 39, 211-220
231. G. Fiermonte, V. Dolce, L. David, F.M. Santorelli, C. Dionisi-Vici, F. Palmieri and J.E. Walker (2003). The mitochondrial ornithine transporter: bacterial expression, reconstitution, functional characterization, and tissue distribution of two human isoforms. ***Journal of Biological Chemistry*** 278, 32778-32783
232. K. Kobayashi, Y.B. Lu, M.X. Li, I. Nishi, K-J Hsiao, K. Choeh, Y. Yang, W-L Hwu, J. K.V. Reichardt, F. Palmieri, Y. Okano, T. Saheki (2003). Screening of Nine SLC25A13 Mutations: Their Frequency in Patients with Citrin Deficiency and High Carrier Rates in Asian Populations. ***Molecular Genetics and Metabolism*** 80, 356-359
233. F. M. Lasorsa, P. Pinton, L. Palmieri, G. Fiermonte, R. Rizzuto and F. Palmieri (2003). Recombinant expression of the Ca²⁺-sensitive aspartate/glutamate carrier increases mitochondrial ATP production in agonist-stimulated Chinese hamster ovary cells. ***Journal of Biological Chemistry*** 278, 38686-38692
234. S. Cavero, A. Voza, A. del Arco, L. Palmieri, A. Villa, E. Blanco, M.J. Runswick, J.E. Walker, S. Cerdan, F. Palmieri and J. Satrustegui (2003). Identification and metabolic role of the mitochondrial aspartate-glutamate transporter in *Saccharomyces cerevisiae*. ***Molecular Microbiology*** 50, 1257-1269
235. C.M.T. Marobbio, G. Agrimi, F.M. Lasorsa and F. Palmieri (2003). Identification and functional reconstitution of yeast mitochondrial carrier for S-adenosylmethionine. ***European Molecular Biology Organization Journal (EMBO J)*** 22, 5975-5982
236. F. Palmieri (2004). The mitochondrial transporter family (SLC25): physiological and pathological implications. In "The ABC of solute carriers" (M.A. Hediger, ed.), ***Pflugers Arch. - Eur. J. Physiol.*** 447, 689-709
237. N. Picault, M. Hodges, L. Palmieri and F. Palmieri (2004). The growing family of mitochondrial carriers in *Arabidopsis*. ***Trends in Plant Science*** 9, 138-146
238. G. Agrimi, M.A. Di Noia, C.M.T. Marobbio, G. Fiermonte, F.M. Lasorsa and F. Palmieri (2004). Identification of the human mitochondrial S-adenosylmethionine transporter: bacterial expression, reconstitution, functional characterization and tissue distribution. ***Biochemical Journal*** 379, 183-190. Published on-line December 16, 2003 as MS-BJ20031664
239. V. Iacobazzi, M. Pasquali, R. Singh, D. Matern, P. Rinaldo, C. Amat di San Filippo, F. Palmieri and N. Longo (2004). Response to therapy in carnitine/acylcarnitine translocase (CACT) deficiency due to a novel missense mutation. ***American Journal of Medical Genetics*** 126A, 150-155
240. A. Voza, E. Blanco, L. Palmieri and F. Palmieri (2004) Identification of the mitochondrial GTP/GDP transporter in *Saccharomyces cerevisiae*. ***Journal of Biological Chemistry*** 279, 20850-20857. Published on-line March 3, 2004
241. G. Fiermonte, F. De Leonadis, S. Todisco. L. Palmieri, F.M. Lasorsa and F. Palmieri (2004) Identification of the mitochondrial ATP-Mg/Pi transporter: bacterial expression, reconstitution, functional characterization and tissue distribution. ***Journal of Biological Chemistry*** 279, 30722-30730
242. F. Palmieri, N. Picault, L. Palmieri and M. Hodges (2004). Plant mitochondrial carriers. In "Plant Mitochondria: From Genome to Function" (D.A. Day, A.H. Millar and J. Whelan, eds) Kluwer Academic Publishers, pp. 247-276
243. F.M. Lasorsa, P. Scarzia, R. Erdmann, F. Palmieri, H. Rottensteiner and L. Palmieri (2004). The yeast peroxisomal adenine nucleotide transporter: characterization of two transport modes

and involvement in Δ pH formation across peroxisomal membranes. *Biochemical Journal* 381, 581-585

244. J.N.A. De Croos, J.D. McNally, F. Palmieri and K.B. Storey (2004). Upregulation of the mitochondrial phosphate carrier during freezing in the wood Frog *Rana sylvatica*: potential roles of transporters in freeze tolerance. *Journal of Bioenergetics and Biomembranes* 36, 229-239
245. M. A. Castiglione-Morelli, A. Ostuni, A. Pepe, G. Lauria, F. Palmieri and F. Bisaccia (2004). Solution structure of the first and second transmembrane segments of the mitochondrial oxoglutarate carrier. *Molecular Membrane Biology* 21, 297-305
246. F. Palmieri and M. Klingenberg (2004). Mitochondrial metabolite transporter family. In **"Encyclopedia of Biological Chemistry"** (W.J. Lennarz and M.D. Lane, eds.) Elsevier, Oxford, Vol. 2, pp. 725-732
247. V. Iacobazzi, F. Invernizzi, S. Baratta, R. Pons, W. Chung, B. Garavaglia, C. Dionisi-Vici, A. Ribes, R. Parini, M. D. Huertas, S. Roldan, G. Lauria, F. Palmieri, and F. Taroni (2004) Molecular and functional analysis of SLC25A20 mutations causing carnitine-acylcarnitine translocase deficiency. *Human Mutation* 24, 312-320
248. S. Garavaglia, M.T. Cambria, M. Miglio, S. Ragusa, V. Iacobazzi, F. Palmieri, C. D'Ambrosio, A. Scaloni and M. Rizzi (2004). The structure of *Rigidoporus lignosus* laccase containing a full complement of copper ions, reveals an asymmetrical arrangement for the T3 copper pair. *Journal of Molecular Biology* 342, 1519-1531
249. F. Molinari, A. Raas-Rothschild, M. Rio, G. Fiermonte, F. Encha-Razavi, L. Palmieri, F. Palmieri, Ziva-Ben-Neriah, N. Khadom, M. Vekemans, T. Attié-Bitach, A. Munnich, P. Rustin and L. Colleaux (2005). Impaired mitochondrial glutamate transport in autosomal recessive neonatal myoclonic epilepsy. *American Journal of Human Genetics* 76, 334-339
250. V. Dolce, P. Scarcia, D. Iacopetta and F. Palmieri (2005). A fourth ADP/ATP carrier isoform in man: identification, bacterial expression, functional characterization and tissue distribution. *FEBS Letters* 579, 633-637. Published on-line December 24, 2004
251. A. Tonazzi, N. Giangregorio, C. Indiveri and F. Palmieri (2005). Identification by site-directed mutagenesis and chemical modification of three vicinal cysteine residues in rat mitochondrial carnitine/acylcarnitine transporter. *Journal of Biological Chemistry* 280, 19607-19612. Published on-line March 9, 2005; doi 10.1074/JBC.M411181200
252. M. A. Castiglione-Morelli, A. Ostuni, F. Croce, F. Palmieri and F. Bisaccia (2005). Solution structure of the fifth and sixth transmembrane segments of the mitochondrial oxoglutarate carrier. *Molecular Membrane Biology* 22, 191-201
253. W. Lewis, C.P. Haase, Y.K. Miller, B. Ferguson, T. Stuart, T. Ludaway, J. McNaught, R. Russ, J. Steltzer, R. Santoianni, R. Long, G. Fiermonte and F. Palmieri (2005). Transgenic expression of the deoxynucleotide carrier causes mitochondrial damage that is enhanced by NRTIs for AIDS. *Laboratory Investigation* 85, 972-981
254. V. Iacobazzi, V. Infantino, P. Costanzo, P. Izzo and F. Palmieri (2005). Functional analysis of the promoter of the mitochondrial phosphate carrier human gene: identification of activator and repressor elements and their transcription factors. *Biochemical Journal* 391, 613-621. Published on-line June 29, 2005 as manuscript BJ20050776
255. V. Zara, A. Ferramosca, P. Papatheodorou, F. Palmieri and J. Rassow (2005). Import of rat mitochondrial citrate carrier (CIC) at increasing salt concentrations promotes presequence

- binding to import receptor Tom20 and inhibits membrane translocation. *Journal of Cell Science* 118, 3985-3995
256. A. Tonazzi, N. Giangregorio, F. Palmieri and C. Indiveri (2005). Relationships of cysteine and lysine residues with the substrate binding site of the mitochondrial ornithine/citrulline carrier: an inhibition kinetic approach combined with the analysis of the homology structural model. *Biochimica et Biophysica Acta - Biomembranes* 1718, 53-60
257. B. Morozzo della Rocca, D.V. Miniero, G. Tasco, V. Dolce, M. Falconi, A. Ludovico, A.R. Cappello, P. Sanchez, I. Stipani, R. Casadio, A. Desideri and F. Palmieri (2005). Substrate-induced conformational changes of the mitochondrial oxoglutarate carrier: a spectroscopic and molecular modelling study. *Molecular Membrane Biology* 22, 443-452
258. C.M.T. Marobbio, M.A. Di Noia, and F. Palmieri (2006). Identification of the mitochondrial transporter for pyrimidine nucleotides in *Saccharomyces cerevisiae*: bacterial expression, reconstitution and functional characterization. *Biochemical Journal* 393, 441-446
259. S. Todisco, G. Agrimi, A. Castegna and F. Palmieri (2006). Identification of the mitochondrial NAD⁺ transporter in *Saccharomyces cerevisiae*. *Journal of Biological Chemistry* 281, 1524-1531
260. L. Palmieri, C. D. Todd, R. Arrigoni, M. E. Hoyos, A. Santoro, J. C. Polacco and F. Palmieri (2006). Arabidopsis mitochondria have two basic amino acid transporters with partially overlapping specificities and differential expression in seedling development. *Biochimica et Biophysica Acta - Bioenergetics* 1757, 1277-1283
261. M.A. Di Noia, S. V. Driesche, F. Palmieri, Li-M. Yang, S. Quan, A.I. Goodman and N.G. Abraham (2006). Heme oxygenase-1 enhances renal mitochondrial transport carriers and cytochrome C oxidase activity in experimental diabetes. *Journal of Biological Chemistry* 281, 15687-15693. doi/10.1074/jbc. M510595200
262. F. Palmieri, G. Agrimi, E. Blanco, A. Castegna, M.A. Di Noia, V. Iacobazzi, F.M. Lasorsa, C.M.T. Marobbio, L. Palmieri, P. Scarcia, S. Todisco, A. Voza and J. Walker (2006). Identification of mitochondrial carriers in *Saccharomyces cerevisiae* by transport assay of reconstituted recombinant proteins. *Biochimica et Biophysica Acta - Bioenergetics* 1757, 1249-1262
263. A.R. Cappello, R. Curcio, D.V. Miniero, I. Stipani, A.J. Robinson, E. R. S. Kunji and F. Palmieri (2006). Functional and structural role of amino acid residues in the even-numbered transmembrane α -helices of the bovine mitochondrial oxoglutarate carrier. *Journal of Molecular Biology* 363, 51-62. doi: 10.1016/j.jmb.2006.08.041
264. L. Palmieri, R. Arrigoni, E. Blanco, F. Carrari, M.I. Zanon, C. Studart-Guimareas, A. R. Fernie and F. Palmieri (2006). Molecular identification of an *Arabidopsis thaliana* S-adenosylmethionine transporter: analysis of organ distribution, bacterial expression, reconstitution into liposomes and functional characterization. *Plant Physiology* 142, 855-865. doi: 10.1104/pp.106.086975
265. D. Poncet, A. L. Pauleau, G. Szabadkai, A. Voza, S. R. Scholz, M. Le Bras, J. J. Brière, A. Jalil, R. Le Moigne, C. Brenner, G. Hahn, I. Wittig, H. Schägger, C. Lemaire, K. Bianchi, S. Souquère, G. Pierron, P. Rustin, V. S. Goldmacher, R. Rizzuto, F. Palmieri and G. Kroemer (2006). Cytopathic effects of the cytomegalovirus-encoded apoptosis inhibitory protein vMIA. *Journal of Cell Biology* 174, 985-996
266. J. W. Joseph, M. V. Jensen, O. Ilkayeva, F. Palmieri, C. Alárcon, C. J. Rhodes and C. B. Newgard (2006). The mitochondrial citrate/isocitrate carrier plays a regulatory role in glucose-stimulated insulin secretion. *Journal Biological Chemistry* 281, 35624-35632
267. M.J. Lindhurst, G. Fiermonte, S. Song, E. Struys, F. De Leonardis, P. L. Schwartzberg, A. Chen, A. Castegna, N. Verhoeven, C. K. Mathews, F. Palmieri and L.G. Biesecker (2006). Knockout of Slc25a19 causes mitochondrial thiamine pyrophosphate depletion, embryonic lethality, CNS malformations, and anemia. *Proceedings of the National Academy of Sciences*

(PNAS) 103, 15927-15932. doi:10.1073/pnas.0607661103

268. V. Zara, V. Dolce, L. Capobianco, A. Ferramosca, P. Papatheodorou, J. Rassow and F. Palmieri (2007). Biogenesis of eel liver citrate carrier (CIC): negative charges can substitute for positive charges in the presequence. *Journal of Molecular Biology* 365, 958-967. doi: 10.1242/jcs.018929
269. Y. Xu, M.S. Ola, D.A. Berkich, T.W. Gardner, A.J. Barber, F. Palmieri, S.M. Hutson and K.F. LaNoue (2007). Energy sources for glutamate neurotransmission in the retina: absence of the aspartate/glutamate carrier produces reliance on glycolysis in glia. *Journal of Neurochemistry* 101, 120-131
270. V. Infantino, V. Iacobazzi, F. De Santis, M. Mastrapasqua and F. Palmieri (2007). Transcription of the mitochondrial citrate carrier gene: role of SREBP-1, upregulation by insulin and downregulation by PUFA. *Biochemical and Biophysical Research Communications* 356, 249-254
271. A.R. Cappello, D.V. Miniero, R. Curcio, A. Ludovico, L. Daddabbo, I. Stipani, A.J. Robinson, E.R.S. Kunji and F. Palmieri (2007). Functional and structural role of amino acid residues in the odd-numbered transmembrane α -helices of the bovine mitochondrial oxoglutarate carrier. *Journal of Molecular Biology* 369, 400-412. doi: 10.1016/j.jmb.2007.03.048
272. S. Floyd, C. Favre, F. M. Lasorsa, M. Leahy, G. Trigiante, P. Stroebel, A. Marx, G. Loughran, K. O'Callaghan, C.M.T. Marobbio, D.J. Slotboom, E.R.S. Kunji, F. Palmieri and R. O'Connor (2007). The IGF-I-mTOR signaling pathway induces the mitochondrial pyrimidine nucleotide carrier to promote cell growth. *Molecular Biology of the Cell* 18, 3545-3555.
273. N. Giangregorio, A. Tonazzi, C. Indiveri and F. Palmieri (2007). Conformation-dependent accessibility of Cys-136 and Cys-155 of the mitochondrial rat carnitine/acylcarnitine carrier to membrane-impermeable SH reagents. *Biochimica et Biophysica Acta* 1767, 1331-1339
274. V. Zara, A. Ferramosca, L. Capobianco, K. M. Baltz, O. Randel, J. Rassow, F. Palmieri and P. Papatheodorou (2007). Biogenesis of yeast dicarboxylate carrier: the carrier signature facilitates translocation across the mitochondrial outer membrane. *Journal of Cell Science* 120, 4099-4106
275. M.A. Castiglione Morelli, A. Ostuni, F. Armentano, F. Palmieri and F. Bisaccia (2007). Structural characterization of the transmembrane segments of the mitochondrial oxoglutarate carrier (OGC) by NMR spectroscopy. *The Italian Journal of Biochemistry* 56, 285-288
276. L. Palmieri, N. Picault, R. Arrigoni, E. Besin, F. Palmieri and M. Hodges (2008). Molecular identification of three Arabidopsis thaliana mitochondrial dicarboxylate carrier isoforms: organ distribution, bacterial expression, reconstitution into liposomes and functional characterization. *Biochemical Journal* 410, 621-629. doi:10.1042/BJ20070867
277. J. R. de Lucas, C. Indiveri, A. Tonazzi, P. Perez, N. Giangregorio, V. Iacobazzi and F. Palmieri (2008). Functional characterisation of residues within the carnitine/acylcarnitine translocase RX₂PANAAXF distinct motif. *Molecular Membrane Biology* 25, 152-163.
278. F. Palmieri (2008). Diseases caused by defects of mitochondrial carriers: a review. *Biochimica et Biophysica Acta - Bioenergetics* 1777, 564-578
279. F.M. Lasorsa, P. Pinton, L. Palmieri, P. Scarcia, H. Rottensteiner, R. Rizzuto and F. Palmieri (2008). Peroxisomes as novel players in cell calcium homeostasis. *Journal of Biological Chemistry* 283, 15300-15308. Published on-line on March 25, 2008
280. G. Fiermonte, D. Soon, A. Chaudhuri, E. Paradies, P.J. Lee, S. Krywawych, F. Palmieri and R.H. Lachmann (2008). An adult with type II citrullinemia presenting in Europe. *The New England Journal of Medicine* 358, 1408-1409

281. L. Pochini, M. Galluccio, D. Scumaci, N. Giangregorio, A. Tonazzi, F. Palmieri and C. Indiveri (2008). Interaction of beta-lactam antibiotics with the mitochondrial carnitine/acylcarnitine transporter. *Chemico-Biological Interactions* 173, 187-194
282. C.M.T. Marobbio, G. Giannuzzi, E. Paradies, C.L. Pierri and F. Palmieri (2008). alpha-Isopropylmalate, a leucine biosynthesis intermediate in yeast, is transported by the mitochondrial oxaloacetate carrier. *Journal of Biological Chemistry* 283, 28445-28453
283. V. Iacobazzi, V. Infantino and F. Palmieri (2008). Epigenetic mechanisms and Sp1 regulate mitochondrial citrate carrier gene expression. *Biochemical and Biophysical Research Communications* 376, 15-20
284. L. Palmieri, A. Santoro, F. Carrari, E. Blanco, A. Nunes-Nesi, R. Arrigoni, F. Genchi, A.R. Fernie and F. Palmieri (2008). Identification and characterisation of ADNT1, a novel mitochondrial adenine nucleotide transporter from *Arabidopsis thaliana*. *Plant Physiology* 148, 1797-1808
285. A. Tessa, G. Fiermonte, C. Dionisi-Vici, E. Paradies, M. R. Baumgartner, Y-H Chien, C. Loguercio, H.O. de Baulny, M.C. Nassogne, F. Deodato, G. Parenti, S. L. Rutledge, M.A. Vilaseca, M.A.B. Melone, G. Scarano, L. Aldamiz-Echevarría, G. Besley, J. Walter, E. Martinez-Hernandez, C.L. Pierri, F. Palmieri and F. M. Santorelli (2009). Identification of novel mutations in the SLC25A15 gene in hyperornithinemia-hyperammonemia-homocitrullinuria (HHH) syndrome: a clinical, molecular, and functional study. *Human Mutation* 30, 741-748
286. V. Zara, A. Ferramosca, P. Robitaille-Foucher F. Palmieri and J. C. Young (2009). Mitochondrial carrier protein biogenesis: role of the chaperone Hcs70 and Hsp90. *Biochemical Journal* 419, 369-375. doi: 10.1042/BJ20082270
287. A. Tonazzi, N. Giangregorio, C. Indiveri and F. Palmieri (2009). Site-directed mutagenesis of the His residues of the rat mitochondrial carnitine/acylcarnitine carrier: implications for the role of His-29 in the transport pathway. *Biochimica et Biophysica Acta - Bioenergetics* 1787, 1009-1015.
288. G. Fiermonte, E. Paradies, S. Todisco, C.M.T. Marobbio and F. Palmieri (2009). A novel member of solute carrier family 25 (SLC25A42) is a transporter of coenzyme A and adenosine 3',5'-diphosphate in human mitochondria. *Journal of Biological Chemistry* 284, 18152-18159. doi/10.1074/jbc.M109.014118
289. V. Iacobazzi, V. Infantino, F. Bisaccia, A. Castegna and F. Palmieri (2009). Role of FOXA in mitochondrial citrate carrier gene expression and insulin secretion. *Biochemical and Biophysical Research Communication* 385, 220-224. doi: 10.1016/j.bbrc.2009.05.030
290. V. Iacobazzi, V. Infantino, P. Convertini, A. Voza, G. Agrimi and F. Palmieri (2009). Transcription of the mitochondrial citrate carrier gene: identification of a silencer and its binding protein ZNF224. *Biochemical and Biophysical Research Communications* 386, 186-191. doi: 10.1016/j.bbrc.2009.06.003
291. M. Casimir, F.M. Lasorsa, B. Rubi, D. Caille, F. Palmieri, P. Meda and P. Maechler (2009). Mitochondrial glutamate carrier GC1 as a newly identified player in the control of glucose-stimulated insulin secretion. *Journal of Biological Chemistry* 284, 25004-25014
292. F. Molinari, A. Kaminska, G. Fiermonte, N. Boddaert, A. Raas-Rothschild, P. Plouin, L. Palmieri, F. Brunelle, F. Palmieri, O. Dulac, A. Munnich and L. Colleaux (2009). Mutations in the mitochondrial glutamate carrier *SLC25A22* in neonatal epileptic encephalopathy with suppression bursts. *Clinical Genetics* 76, 188-194
293. M. Madeo, C. Carrisi, D. Iacopetta, L. Capobianco, A.R. Cappello, C. Bucci, F. Palmieri, G. Mazzeo, A. Montalto and V. Dolce (2009). Abundant expression and purification of biologically active mitochondrial citrate carrier in baculovirus-infected insect cells. *Journal of Bioenergetics and Biomembranes* 41, 289-297

294. R. Wibom, F.M. Lasorsa, V. Töhönen, M. Barbaro, F.H. Sterky, T. Kucinski, K. Naess, M. Jonsson, C.L. Pierri, F. Palmieri and A. Wedell (2009). AGC1 deficiency associated with global cerebral hypomyelination. *New England Journal of Medicine* 361, 489-495
295. T. Kucinski, F. Palmieri and A. Wedell (2009). The authors reply. *The New England Journal of Medicine* 361, 1998
296. V. Iacobazzi, P. Convertini, V. Infantino, P. Scarcia, S. Todisco and F. Palmieri (2009). Statins, fibrates and retinoic acid upregulate mitochondrial acylcarnitine carrier gene expression. *Biochemical and Biophysical Research Communications* 388, 643-647
297. F. Palmieri, B. Rieder, A. Ventrella, E. Blanco, P.T. Do, A. Nunes-Nesi, A.U. Trauth, G. Fiermonte, J. Tjaden, G. Agrimi, S. Kirchberger, E. Paradies, A.R. Fernie and H.E. Neuhaus (2009). Molecular identification and functional characterisation of *Arabidopsis thaliana* mitochondrial and chloroplastic NAD⁺ carrier proteins. *Journal of Biological Chemistry* 284, 31249-31259
298. D. Iacopetta, C. Carrisi, G. De Filippis, V.M. Calcagnile, A.R. Cappello, A. Chimento, R. Curcio, A. Santoro, A. Voza, V. Dolce, F. Palmieri and L. Capobianco (2010). The biochemical properties of the mitochondrial thiamine pyrophosphate carrier from *Drosophila melanogaster*. *The FEBS Journal* 277, 1172-1181
299. F. Palmieri and C.L. Pierri (2010). Structure and function of mitochondrial carriers - Role of the transmembrane helix P and G residues in the gating and transport mechanism. *FEBS Letters* 584, 1931-1939. doi: 10.1016/j.febslet.2009.10.063
300. A. Castegna, P. Scarcia, G. Agrimi, L. Palmieri, H. Rottensteiner, I. Spera, L. Germinario and F. Palmieri (2010). Identification and functional characterization of a novel mitochondrial carrier for citrate and oxoglutarate in *S. cerevisiae*. *Journal of Biological Chemistry*, 285,17359-17370
301. F. Palmieri and C.L. Pierri (2010). Mitochondrial metabolite transport. *Essays in Biochemistry* 47, 37-52
302. N. Giangregorio, A. Tonazzi, L. Console, C. Indiveri and F. Palmieri (2010). Site-directed mutagenesis of charged amino acids of the human mitochondrial carnitine/acylcarnitine carrier: insight into the molecular mechanism of transport. *Biochimica et Biophysica Acta* 1797, 839-845
303. Y. Zaltsman, L. Shachnai, N. Yivgi-Ohana, M. Schwarz, M. Maryanovich, R.H. Houtkooper, F.M. Vaz, F. De Leonardis, G. Fiermonte, F. Palmieri, E. Jimenez, S. Walsh, C.M. Koehler, S.S. Roy, L. Walter, G. Hajnóczky and A. Gross (2010). MTCH2/MIMP is a major facilitator of tBID recruitment to mitochondria. *Nature Cell Biology* 12, 553-562
304. M.P. Mazurek, P.D. Prasad, E. Gopal, S.P. Fraser, L. Bolt, N. Rizaner, C.P. Palmer, C.S. Foster, F. Palmieri, V. Ganapathy, W. Stuhmer, M.B. Djamgoz and M.E. Mycielska (2010). Molecular origin of plasma membrane citrate transporter in human prostate epithelial cells. *EMBO Reports* 11, 431-437
305. P. Convertini, V. Infantino, F. Bisaccia, F. Palmieri and V. Iacobazzi (2011). Role of FOXA and Sp1 in mitochondrial acylcarnitine carrier gene expression in different cell lines. *Biochemical and Biophysical Research Communications*, 404, 376-381. doi: 10.1016/j.bbrc.2010.11.126
306. D.V. Miniero, A. R. Cappello, R. Curcio, A. Ludovico, L. Daddabbo, I. Stipani, A.J. Robinson, E. R. S. Kunji and F. Palmieri (2011). Functional and structural role of amino acid residues in the matrix α -helices, termini and cytosolic loops of the bovine mitochondrial oxoglutarate carrier. *Biochimica et Biophysica Acta - Bioenergetics* 1807, 302-310
307. F. Palmieri, C.L. Pierri, A. De Grassi, A. Nunes-Nesi and A.R. Fernie (2011). Evolution, structure and function of mitochondrial carriers: a review with new insights. *The Plant Journal*, 66, 161-181

308. M. Gallo, D. Park, D.S. Luciani, K. Kida, F. Palmieri, O.E. Blacque, J.D. Johnson and D.L. Ridde (2011). MISC-1/OGC links mitochondrial metabolism, apoptosis and insulin secretion. *PLoS ONE*, 6, e17827, 1-13
309. A. Castegna, L. Palmieri, I. Spera, V. Porcelli, F. Palmieri, A.J. Fabis-Pedrini, E. B. Kean, D.A. Barkhouse and D. C. Hooper (2011). Oxidative stress and reduced glutamine synthetase activity in the absence of inflammation in the cortex of mice with experimental allergic encephalomyelitis. *Neuroscience*, 185, 97-105
310. V. Infantino, P. Convertini, L. Cucci, M.A. Panaro, M.A. Di Noia, R. Calvello, F. Palmieri and V. Iacobazzi (2011). The mitochondrial citrate carrier: a new player in inflammation. *Biochemical Journal*, 438, 433-436
311. C. Indiveri, V. Iacobazzi, A. Tonazzi, N. Giangregorio, V. Infantino, P. Convertini, L. Console and F. Palmieri (2011). The mitochondrial carnitine/acylcarnitine carrier: function, structure and physiopathology. *Molecular Aspects of Medicine* 32, 223-233
312. G. Fiermonte, G. Parisi, D. Martinella, F. De Leonardis, G. Torre, C.L. Pierri, A. Sacrari, F.M. Lasorsa, A. Voza, F. Palmieri and C. Dionisi-Vici (2011). A new Caucasian case of neonatal intrahepatic cholestasis caused by citrin deficiency (NICCD): a clinical, molecular, and functional study. *Molecular Genetics and Metabolism*, 104, 501-506
313. P. Dolezal, M. Aili, J. Tong, J-H Jiang, C.M.T. Marobbio, S. F. Lee, R. Schuelein, S. Belluzzo, E. Binova, A. Mousnier, G. Frankel, G. Giannuzzi, F. Palmieri, K. Gabriel, T. Naderer, E.L. Hartland and T. Lithgow (2012). *Legionella pneumophila* secretes a mitochondrial carrier protein during infection. *PloS Pathogens*, 8(1): e1002459.
314. G. Agrimi, A. Russo, P. Scarcia and F. Palmieri (2012). The human gene SLC25A17 encodes a peroxisomal transporter of coenzyme A, FAD and NAD⁺. *Biochemical Journal*, 443, 241-247.
315. A. Tonazzi, L. Console, N. Giangregorio, C. Indiveri and F. Palmieri (2012). Identification by site-directed mutagenesis of a hydrophobic binding site of the mitochondrial carnitine/acylcarnitine carrier involved in the interaction with acyl groups. *Biochimica et Biophysica Acta - Bioenergetics*, 1817, 697-704.
316. M. Monné, V. Miniero, L. Daddabbo, A.J. Robinson, E.R.S. Kunji and F. Palmieri (2012). Substrate specificity of the two mitochondrial ornithine carriers can be swapped by single mutation in substrate binding site. *Journal of Biological Chemistry*, 287, 7925-7934. doi: 10.1074/jbc.M111.324855
317. O. Frelin, G. Agrimi, V.L. Laera, A. Castegna, L.G.L. Richardson, R.T. Mullen, C. Lerma-Ortiz, F. Palmieri and A.D. Hanson (2012). Identification of mitochondrial thiamin diphosphate carriers from *Arabidopsis* and maize. *Functional and Integrative Genomics*, 12, 317-326. Doi: 10.1007/s10142-012-0273-4
318. Agrimi, G., Russo, A., Pierri, C.L. and Palmieri, F. (2012). The peroxisomal NAD⁺ carrier of *Arabidopsis thaliana* transports coenzyme A and its derivatives. *Journal of Bioenergetics and Biomembranes*, 44, 333-340. Doi: 10.1007/s10863-012-9445-0
319. A. Montalvo and F. Palmieri. (2012). Transportadores Mitocondriales: Estructura, Función y Patología. In: Sistema mitocondrial: un reto en la Medicina Humana, Monografía XXXVI, capítulo IX (M.J. López Pérez, J.M. Ortiz Melón, and A. Doadrio Villarejo, Eds.), Real Academia Nacional de Farmacia (Madrid), pp. 196-269.
320. O. Catalina-Rodriguez, V.K. Kolukula, Y. Tomita, A. Preet, F. Palmieri, A. Wellstein, S. Byers, A.J. Giaccia, E. Glasgow, C. Albanese and M.L. Avantaggiati (2012). The mitochondrial citrate transporter, CIC, is essential for mitochondrial homeostasis. *Oncotarget*, 3, 1220-1223
321. F. Palmieri (2013). The mitochondrial transporter family SLC25: identification, properties and physiopathology. *Molecular Aspects of Medicine*, 34, 465-484

322. F. Palmieri (2013). Mitochondrial Metabolite Carrier Protein Family. In: Lennarz, W.J. and Lane, M.D. (eds.) *The Encyclopedia of Biological Chemistry*, Vol. 3, pp.149-158. Waltham, MA: Academic Press.
323. M. Monné, F. Palmieri and E.R.S. Kunji (2013). The substrate specificity of mitochondrial carriers: mutagenesis revisited. *Molecular Membrane Biology*, 30, 149-159
324. R. Zallot, G. Agrimi, C. Lerma-Ortiz, H.J. Teresinski, F. Océane, K.W. Ellens, A. Castegna, A. Russo, V. de Crécy-Lagard, R.T. Mullen, F. Palmieri and A.D. Hanson (2013) Identification of mitochondrial coenzyme A transporters from maize and Arabidopsis *Plant Physiology*, 162, 581-588
325. V. Iacobazzi, V. Infantino, and F. Palmieri (2013). Transcriptional regulation of the mitochondrial citrate and carnitine/acylcarnitine transporters: two genes involved in fatty acid biosynthesis and α -oxidation. *Biology*, 2, 284-303
326. A. Menga, V. Infantino, F. Iacobazzi, P. Convertini, F. Palmieri, and V. Iacobazzi (2013). Insight into mechanism of in vitro insulin secretion increase induced by antipsychotic clozapine: role of FOXA1 and mitochondrial citrate carrier. *European neuropsychopharmacology*, 23, 978-987; doi: 10.1016/j.euroneuro.2012.08.015
327. N. Giangregorio, F. Palmieri, and C. Indiveri (2013). Glutathione controls the redox state of the mitochondrial carnitine/acylcarnitine carrier Cys residues by glutathionylation. *Biochimica et Biophysica Acta – General Subjects*, 1830, 5299-5304
328. A. Urbani, M. De Canio, F. Palmieri, S. Sechi, L. Bini, M. Castagnola, M. Fasano, A. Modesti, P. Roncada, A.M. Timperio, L. Bonizzi, M. Brunori, F. Cutruzzola, V. De Pinto, C. Di Ilio, G. Federici, F. Folli, S. Foti, C. Gelfi, D. Lauro, A. Lucacchini, F. Magni, I. Messina, P.P. Pandolfi, S. Papa, P. Pucci and P. Sacchetta (2013). The mitochondrial Italian Human Proteome Project initiative (mt-HPP). *Molecular BioSystems*, 9, 1884-1992
329. T. Brun, P. Scarzia, N. Li, P. Gaudet, D. Duhamel, F. Palmieri, and P. Maechler (2013). Changes in mitochondrial carriers exhibit stress-specific signatures in INS-1E β -cells exposed to glucose versus fatty acids. *PLoS ONE*, 8, e82364. Doi: 10.1371/journal.pone.0082364
330. V. Infantino, V. Iacobazzi, F. Palmieri, and A. Menga (2013). ATP-citrate lyase is essential for macrophage inflammatory response. *Biochemical and Biophysical Research Communications*, 440, 105-111
331. C.A. Stanley, F. Palmieri and M.J. Bennett (2013). Disorders of the mitochondrial carnitine shuttle. *The Online Metabolic and Molecular Bases of Inherited Diseases (OMMBID)* published on line. DOI; 10.1036/ommbid.101
332. A. Poduri, E.L. Heinzen, V. Chitsazzadeh, F.M. Lasorsa, C.M. LaCoursiere, E. Martin, C. Yusakaitis, R.S. Hill, P.C. Elhosary, K.D. Atabay, B. Barry, J.N. Partlow, F.A. Bashiri, R.M. Zeidan, S.A. Elmalik, M.M.U. Kabiraj, S. Kothare, T. Stödberg, I.E. Scheffer, A.J. Barkovich, F. Palmieri, D. Goldstein, M.A. Salih and C.A. Walsh (2013). *SLC25A22* is a novel gene for migrating partial seizures in infancy. *Annals of Neurology*, 74: 873-882. Doi: 10.1002/ana.23998.
333. C. Pierri, F. Palmieri, and A. De Grassi (2014). Single-nucleotide evolution quantifies the importance of each site along the structure of mitochondrial carriers. *Cellular and Molecular Life Sciences*, 71, 349-364; doi: 10.1007/s00018-013-1389-y.
334. S. Todisco, M.A. Di Noia, A. Castegna, F.M. Lasorsa, E. Paradies, and F. Palmieri (2014). The *Saccharomyces cerevisiae* gene *YPR011c* encodes a mitochondrial transporter of adenosine 5'-phosphosulfate and 3'-phospho-adenosine 5'-phosphosulfate. *Biochimica et Biophysica Acta*, 1837, 326-334. doi: 10.1016/j.bbabi.2013.11.013
335. A. Voza, G. Parisi, F. De Leonardis, F.M. Lasorsa, A. Castegna, D. Amorese, R. Marmo, V.M. Calcagnile, L. Palmieri, D. Ricquier, E. Paradies, P. Scarzia, F. Palmieri, F. Bouillaud, and G. Fiermonte (2014). UCP2 transports C4 metabolites out of mitochondria, regulating glucose and glutamine oxidation. *Proceedings from the National Academy of Sciences USA*, 111, 960-965

336. M.J. Falk, D. Li, X. Gai, E. McCormick, E. Place, F.M. Lasorsa, F.G. Otieno, C. Hou, C.E. Kim, N. Abdel-Magid, L. Vazquez, F.D. Mentch, R. Chiavacci, J. Liang, X. Liu, H. Jiang, G. Giannuzzi, E.D. Marsh, Y. Guo, L. Tian, F. Palmieri, and H. Hakonarson (2014). AGC1 deficiency causes infantile epilepsy, abnormal myelination, and reduced *N*-acetylaspartate. *Journal of Inherited Metabolic Disease Reports*, 14, 77-85. doi: 10.1007/8904_2013_287
337. F. Palmieri (2014). Mitochondrial transporters of the SLC25 family and associated diseases: a review. *Journal of Inherited Metabolic Disease*, 37, 565-575.
338. V.K. Kolukula, G. Sahu, A. Wellstein, A. Preet, V. Iacobazzi, G. D'Orazi, C. Albanese, F. Palmieri and M.L. Avantaggiati (2014). SLC25A1, or CIC, is a novel transcriptional target of mutant p53 and a negative tumor prognostic marker. *Oncotarget*, 5, 1212-1225
339. N. Ersoy Tunali, C.M.T. Marobbio, N.O Tiryakioglu, G.Punzi, S.K.SayGgili, H.Önal, F. Palmieri (2014). A novel mutation in the *SLC25A15* gene in a Turkish patient with HHH syndrome: functional analysis of the mutant protein. *Molecular Genetics and Metabolism*, 112, 25-29; doi: 10.1016/j.ymgme.2014.03.002. PubMed PMID: 24721342.
340. V. Porcelli, G. Fiermonte A. Longo and F. Palmieri (2014). The Human Gene *SLC25A29*, of Solute Carrier Family 25, Encodes a Mitochondrial Transporter of Basic Amino Acids. *Journal of Biological Chemistry*, 289, 13374-13384
341. F. Palmieri and M. Monné (2014). Antiporters of the mitochondrial carrier family. In *Current Topics in Membranes*, Academic Press, Exchangers, Vol. 73 (Mark O. Bevenses, editor), pp.289-320. doi: 10.1016/B978-0-12-800223-0.00008-6.
342. V. Infantino, V. Iacobazzi, A. Menga, M. L. Avantaggiati and F. Palmieri (2014). A key role of the mitochondrial citrate carrier (*SLC25A1*), in TNF α - and IFN γ -triggered inflammation. *Biochimica et Biophysica Acta*, 1839, 1217-1225
343. M. A. Di Noia, S. Todisco, A. Cirigliano, T. Rinaldi, G. Agrimi, V. Iacobazzi and F. Palmieri (2014). The human SLC25A33 and SLC25A36 genes of solute carrier family 25 encode two mitochondrial pyrimidine nucleotide transporters. *Journal of Biological Chemistry*, 289, 33137-33148
344. N. Giangregorio, L. Console, A. Tonazzi, F. Palmieri and C. Indiveri (2014). Identification of amino acid residues underlying the antiport mechanism of the mitochondrial carnitine/acylcarnitine carrier by site-directed mutagenesis and chemical labelling. *Biochemistry*, 53, 6924-33
345. A. Menga, V. Iacobazzi, V. Infantino, M. L. Avantaggiati and F. Palmieri (2015). The mitochondrial aspartate/glutamate carrier isoform 1 gene expression is regulated by CREB in neuronal cells. *International Journal of Biochemistry and Cell Biology*, 60, 157-166. DOI: 10.1016/j.biocel.2015.01.004
346. C. M T. Marobbio, G. Punzi, C. L. Pierri, L. Palmieri, R. Calvello, M. A. Panaro and F. Palmieri (2015). Pathogenic potential of *SLC25A15* mutations assessed by transport assays and complementation of *Saccharomyces cerevisiae* *ORT1* null mutant. *Molecular Genetics and Metabolism*, 115, 27-32. DOI: 10.1016/j.ymgme.2015.03.003
347. M. Monné, D. V. Miniero, L. Daddabbo, L. Palmieri, V. Porcelli and F. Palmieri (2015). Mitochondrial transporters for ornithine and related amino acids: a review. *Amino Acids*, 47, 1763-1777.
348. E. M. Palmieri, I. Spera, A. Menga, V. Infantino, V. Porcelli, V. Iacobazzi, C. L. Pierri, D. C. Hooper, F. Palmieri and A. Castegna (2015). Acetylation of human mitochondrial citrate carrier modulates mitochondrial citrate/malate exchange activity to sustain NADPH production during macrophage activation. *Biochimica et Biophysica Acta*, 1847, 729-738
349. M. Monné, D. V. Miniero, T. Obata, L. Daddabbo, L. Palmieri, A. Voza, M. C. Nicolardi, A. R. Fernie and Ferdinando Palmieri (2015). Functional Characterization and Organ Distribution of Three Mitochondrial ATP-Mg/P_i Carriers in *Arabidopsis thaliana*. *Biochimica et Biophysica Acta - Bioenergetics*, 1847, 1220-1230

350. M. R. VanLinden, C. Dölle, I. K. N. Pettersen, V. A. Kulikova, M. Niere, G. Agrimi, S. E. Dyrstad, F. Palmieri, A. A. Nikiforov, K. J. Tronstad and M. Ziegler (2015). Subcellular Distribution of NAD⁺ between Cytosol and Mitochondria Determines the Metabolic Profile of Human Cells. *Journal of Biological Chemistry* 290,27644-27659
351. Y. Kishita, A. Pajak, N. A. Bolar, C. M. Marobbio, C. Maffezzini, D. V. Miniero, M. Monné, M. Kohda, H. Stranneheim, K. Murayama, K. Naess, N. Lesko, H. Bruhn, A. Mourier, R. Wibom, I. Nennesmo, A. Jespers, P. Govaert, A. Ohtake, L. Van Laer, B. L. Loeys, C. Freyer, F. Palmieri, A. Wredenberg, Y. Okazaki, A. Wedell (2015). Intra-mitochondrial Methylation Deficiency Due to Mutations in SLC25A26. *The American Journal of Human Genetics* 97, 761-768.
352. V. Porcelli, A. Longo, L. Palmieri, E. Closs and F. Palmieri (2016). Asymmetric dimethylarginine is transported by the mitochondrial carrier SLC25A2. *Amino Acids*, 48, 427-436 DOI: 10.1007/s00726-015-2096-9
353. A. Pietropaolo, C. L. Pierri, F. Palmieri and M. Klingenberg (2016). The switching mechanism of the mitochondrial ADP/ATP carrier explored by free-energy landscapes. *BBA-Bioenergetics*, 1857, 772-781
354. F. Palmieri and M. Monné (2016). Discoveries, metabolic roles and diseases of mitochondrial carriers: a review. *Biochimica et Biophysica Acta -Molecular Cell Research*, 1863, 2362-2378
355. A. Pietropaolo, C. L. Pierri, F. Palmieri and M. Klingenberg (2016). Dataset of the AAC2 conformations in the c-, intermediate- and m-states obtained from free-energy simulations. *Data in Brief*, 7, 1355-1357. Le strutture ottenute dalle simulazioni sono disponibili nel materiale supplementare del Data in Brief al link <http://www.sciencedirect.com/science/article/pii/S2352340916302360>
356. C. T. Ferrara, K. E. Boodhansingh, E. Paradies, G. Fiermonte, L. J. Steinkrauss, L. Swartz Topor, J. B. Quintos, A. Ganguly, D. D. De Leon, F. Palmieri and C. A. Stanley (2017). Novel Hypoglycemia Phenotype in Congenital Hyperinsulinism Due to Dominant Mutations of Uncoupling Protein 2 (UCP2). *The Journal of Clinical Endocrinology and Metabolism (JCEM)* 102, 942-949.
357. A. Menga, E. M. Palmieri, A. Cianciulli, V. Infantino, M. Mazzone, A. Scilimati, F. Palmieri, A. Castegna and V. Iacobazzi (2017). SLC25A26 overexpression impairs CaSki cells function via mtDNA hypermethylation and rewiring of the methyl metabolism. *The FEBS Journal* 284, 967-984
358. E. Profilo, L. E. Peña-Altamira, M. Corricelli, A. Castegna, A. Danese, G. Agrimi, S. Petralla, G. Giannuzzi, V. Porcelli, L. Sbanò, C. Viscomi, F. Massenzio, E. M. Palmieri, C. Giorgi, G. Fiermonte, M. Virgili, L. Palmieri, M. Zeviani, P. Pinton, B. Monti, F. Palmieri and F. M. Lasorsa (2017). Down-regulation of the mitochondrial aspartate-glutamate carrier isoform 1 AGC1 inhibits proliferation and N-acetylaspartate synthesis in Neuro2A cells. *Biochimica et Biophysica Acta – Molecular Basis of Disease* 1863, 1422-1435.
359. E. Goubert, Y. Mircheva, F. M. Lasorsa, C. Melon, E. Profilo, J. Sutera, H. Becq, F. Palmieri, L. Palmieri, L. Aniksztejn and F. Molinari (2017). Inhibition of the mitochondrial glutamate carrier SLC25A22 in astrocytes leads to intracellular glutamate accumulation. *Frontiers in Cellular Neuroscience* 11 (article 149), 1-15
360. M. Monné, L. Daddabbo, L. C. Giannossa, M. C. Nicolardi, L. Palmieri, D. V. Miniero, A. Mangone and F. Palmieri (2017). Mitochondrial ATP-Mg/phosphate carriers transport divalent inorganic cations in complex with ATP. *Journal of Bioenergetics and Biomembranes* 49, 369-380
361. P. Scarcia, L. Palmieri, G. Agrimi, F. Palmieri and H. Rottensteiner (2017) Three mitochondrial transporters of *Saccharomyces cerevisiae* are essential for ammonium fixation and lysine biosynthesis in synthetic minimal medium. *Molecular Genetics and Metabolism*, 122, 54-60

362. V. Iacobazzi, V. Infantino, A. Castegna, A. Menga, E. M. Palmieri, P. Convertini and F. Palmieri (2017). Mitochondrial carriers in inflammation induced by bacterial endotoxin and cytokines. *Biological Chemistry* 398, 303-317
363. A. Pop, M. Williams, E. A. Struys, M. Monné, E. E. W. Jansen, A. De Grassi, W. A. Kanhai, P. Scarcia, M. R. Fernandez Ojeda, V. Porcelli, S. J. M. van Dooren, P. Lennertz, B. Nota, J. E. Abdenur, D. Coman, A. M. Das, A. El-Gharbawy, J-M. Nuoffer, B. Polic, R. Santer, N. Weinhold, B. Zuccarelli, F. Palmieri, L. Palmieri, G. S. Salomons (2018) An overview of combined D-2- and L-2-Hydroxyglutaric aciduria: functional analysis of CIC variants. *Journal of Inherited Metabolic Disease* 41, 169-180
364. G. Punzi, V. Porcelli, M. Ruggiu, Md F. Hossain, A. Menga, P. Scarcia, A. Castegna, R. Gorgoglione, C. L. Pierri, L. Laera, F. M. Lasorsa, E. Paradies, I. Pisano, C. M.T. Marobbio, E. Lamantea, D. Ghezzi, V. Tiranti, S. Giannattasio, M. A. Donati, R. Guerrini, L. Palmieri, F. Palmieri and A. De Grassi (2018) SLC25A10 biallelic mutations in intractable epileptic encephalopathy with complex I deficiency. *Human Molecular Genetics* 27, 499-504
365. M. Monné, L. Daddabbo, D. Gagne, T. Obata, B. Hielscher, L. Palmieri, D. V. Miniero, A. R. Fernie, F. Palmieri (2018) Uncoupling proteins 1 and 2 (UCP1 and UCP2) from *Arabidopsis thaliana* are mitochondrial transporters of aspartate, glutamate and dicarboxylates. *Journal of Biological Chemistry* 293, 4213-4227. Online: 25 January 2018, doi: RA117.000771
366. P. Scarcia, G. Agrimi, L. Germinario, A. Ibrahim, H. Rottensteiner, F. Palmieri, L. Palmieri (2018) In *S. cerevisiae* grown in synthetic minimal medium supplemented with non-fermentable carbon sources glutamate is synthesized within mitochondria. *Rendiconti Lincei, Scienze Fisiche e Naturali* 29, 483-490
367. V. Porcelli, A. Vozza, V. Calcagnile, R. Gorgoglione, R. Arrigoni, F. Fontanesi, C.M.T. Marobbio, A. Castegna, F. Palmieri, L. Palmieri (2018) Molecular identification and functional characterization of a novel glutamate transporter in yeast and plant mitochondria. *Biochimica et Biophysica Acta -Bioenergetics* 1859, 1249-1258
368. V. Zara, A. Ferramosca, K. Günnewig, S. Kreimendahl, J. Schwichtenberg, D. Sträter, M. Çakar, K. Emmrich, P. Guidato, F. Palmieri, J. Rassow (2018). Mimivirus-encoded nucleotide translocator VMC1 targets the mitochondrial inner membrane. *Journal of Molecular Biology* 430, 5233-5245
369. V. Infantino, F. Dituri, P. Convertini, A. Santarsiero, F. Palmieri, S. Todisco, S. Mancarella, G. Giannelli, V. Iacobazzi (2019) Epigenetic upregulation and functional role of the mitochondrial aspartate/glutamate carrier isoform 1 in hepatocellular carcinoma. *Biochimica et Biophysica Acta – Molecular Basis of Disease* 1865, 38-47
370. A. Cianciull, A. Menga, F. Palmieri, V. Iacobazzi (2018) FOXD3 acts as a repressor of the mitochondrial S-adenosylmethionine carrier (*SLC25A26*) gene expression in cancer cells. *Biochimie* 154, 25-34.
371. P. Convertini, S. Todisco, F. De Santis, I. Pappalardo, D. Iacobazzi, M. A. Castiglione Morelli, Y. Fondufe-Mittendorf, G. Martelli, F. Palmieri, V. Infantino (2019) Transcriptional regulation factors of the human mitochondrial aspartate/glutamate carrier gene, isoform 2 (*SLC25A13*): USF1 as basal factor and FOXA2 as activator in liver cells. *International Journal of Molecular Sciences* 20, 1888
372. E. Y. Yuzbasheva, G. Agrimi, T.V. Yuzbashev, P. Scarci, E.B. VinogradovaL., Palmieri, A. V. Shutov, I. M. Kosikhina, F. Palmieri, S. P. Sineoky (2019) The mitochondrial citrate carrier in *Yarrowia lipolytica*: Its identification, characterization and functional significance for the production of citric acid. *Metabolic engineering* 54, 264-274
373. I. de Souza Chaves, E. Feitosa-Araujo, A. Florian, D. B. Medeiros, P. da Fonseca-Pereira, L. Charton, E. Heyneke, J. A.C. Apfata, M. V. Pires, T. Mettler-Altman, W. L. Araujo, H. E. Neuhaus, F. Palmieri, T. Obata, A. P.M. Weber, N. Linka, A. R. Fernie and A. Nunes-Nesi (2019) The mitochondrial NAD⁺ transporter (NDT1) plays important roles in cellular NAD⁺ homeostasis in *Arabidopsis thaliana*. *The Plant Journal* 100, 487-504. doi: 10.1111/tpj.14452

374. R. Gorgoglione, V. Porcelli, A. Santoro, L. Daddabbo, A. Voza, M. Monné, M. A. di Noia, L. Palmieri, G. Fiermonte and F. Palmieri (2019) The human uncoupling proteins 5 and 6 (UCP5/SLC25A14 and UCP6/SLC25A30) transport sulfur oxyanions, phosphate and dicarboxylates. *Biochimica et Biophysica Acta – Bioenergetics* 1860, 724-733
375. M. Monné, A. Voza, F. M. Lasorsa, V. Porcelli and F. Palmieri (2019) Mitochondrial carriers for aspartate, glutamate and other amino acids: a review. *International Journal of Molecular Sciences* 20 (18), 4456
376. S. Petralla, L. E. Peña-Altamira, E. Poeta, F. Massenzio, M. Virgili, S. N. Barile, L. Sbanò, E. Profilo, M. Corricelli, A. Danese, C. Giorgi, R. Ostan, M. Capri, P. Pinton, F. Palmieri, F. M. Lasorsa and B. Monti (2019) Deficiency of mitochondrial aspartate-glutamate carrier 1 leads to oligodendrocyte precursor cell proliferation defects both in vitro and in vivo. *International Journal of Molecular Sciences* 20 (18), 4486
377. E. Feitosa-Araújo, I. De Souza Chaves, A. Florian, P. Pereira, J. Condori-Apfata, E. Heyneke, D. B. Medeiros, M. Pires, T. Mettler-Altmann, H. Neuhaus, F. Palmieri, W. L. Araújo, T. Obata, A. Weber, N. Linka, A. Fernie, A. Nunes-Nesi (2020) Down-regulation of a mitochondrial NAD⁺ transporter (NDT2) alters seed production and germination in *Arabidopsis*. *Plant and Cell Physiology* 61, 897-908
378. D. S. Brito, G. Agrimi, L. Charton, D. Brillhaus, M. G. Bitetto, C. P. Nascimento, J. Lana-Costa, E. F. Araújo, M. V. Pires, J. L. Pérez-Díaz, T. Obata, V. Porcelli, L. Palmieri, W. L. Araújo, A. P. M. Weber, N. Linka, A. R. Fernie, F. Palmieri and A. Nunes-Nesi (2020) Biochemical and Functional Characterization of a Mitochondrial Citrate Carrier in *Arabidopsis thaliana*. *Biochemical Journal* 477, 1759-1777
379. F. Palmieri, P. Scarcia and M. Monné (2020). Diseases caused by mutations in mitochondrial carrier genes SLC25: a review. *Biomolecules* 10, 655, 2020. Online 23 April 2020. doi:10.3390/biom10040655
380. E. Y. Yuzbasheva, P. Scarcia, T. V. Yuzbashev, E. Messina, I. M. Kosikhina, L. Palmieri, A. V. Shutov, M. O. Taratynova, R. L. Amaro, F. Palmieri, S. P. Sineoky and G. Agrimi (2021). Engineering *Yarrowia lipolytica* for the selective and high-level production of isocitric acid through manipulation of mitochondrial dicarboxylate–tricarboxylate carriers. *Metabolic engineering* 65:156-166.
381. A. Tonazzi, N. Giangregorio, L. Console, F. Palmieri and C. Indiveri (2021) The mitochondrial Carnitine Acylcarnitine carrier (SLC25A20): Molecular mechanism of transport, role in redox sensing and interaction with drugs. *Biomolecules* 11(4):521
382. F. Palmieri (2021) Mitochondrial Transporters of the Solute Carrier 25 (SLC25) Superfamily. In: Jez Joseph (eds.) *Encyclopedia of Biological Chemistry* 3rd Edition. vol. 1, pp. 213–243. Oxford: Elsevier.
383. L. Jasper, P. Scarcia, S. Rust, J. Reunert, F. Palmieri, T. Marquardt (2021) Uridine Treatment of the First Known Case of SLC25A36 Deficiency. *International Journal of Molecular Sciences* 22, 9929.
384. P. da Fonseca-Pereira, R. Neri-Silva, R. de Cássia Monteiro-Batista, J. L. Pérez-Díaz, F. Palmieri, W. L. Araújo, A. R. Fernie, A. Nunes-Nesi (2021) The physiological role of mitochondrial ADNT1 carrier during senescence in *Arabidopsis*. *Plant Stress*, 2, 100019
385. M. Ziegler, M. Monné, A. Nikiforov, G. Agrimi, I. Heiland, and F. Palmieri. (2021) Welcome to the family: Identification of the NAD⁺ transporter of animal mitochondria as member of the solute carrier family SLC25. *Biomolecules*, 11, 880
386. F. Palmieri, M. Monné, G. Fiermonte, L. Palmieri (2022) Mitochondrial transport and metabolism of the vitamin B-derived cofactors thiamine pyrophosphate, coenzyme A, FAD and NAD⁺, and related diseases: A review. *IUBMB Life* 74, 592-617
387. D. V. Miniero, M. Monné, M. A. Di Noia, L. Palmieri and F. Palmieri (2022). Evidence for Non-Essential Salt Bridges in the M-Gates of Mitochondrial Carrier Proteins. *International Journal of Molecular Sciences* 23, 5060

388. M. Monné, C. M. T. Marobbio, G. Agrimi, L. Palmieri, and F. Palmieri. (2022) Mitochondrial transport and metabolism of the major methyl donor and versatile cofactor S-adenosylmethionine, and related diseases: A review. *IUBMB Life* 74, 573-591
389. R. Seccia, S. De Santis, M. A. Di Noia, F. Palmieri, D. V. Miniero, R. Marmo, E. Paradies, A. Santoro, C. L. Pierri, L. Palmieri, C. M.T. Marobbio, and A. Vozza (2022) Citrate Regulates the *Saccharomyces cerevisiae* Mitochondrial GDP/GTP Carrier (Ggc1p) by Triggering Unidirectional Transport of GTP. *Journal of Fungi*, 8, 795.
390. M. Monné, A. Cianciulli, M. A. Panaro, R. Calvello, A. De Grassi, L. Palmieri, V. Mitolo, and F. Palmieri. (2023) New Insights into the Evolution and Gene Structure of the Mitochondrial Carrier Family Unveiled by Analyzing the Frequent and Conserved Intron Positions. *Molecular Biology and Evolution*, 40, msad051.
391. D.V. Miniero, F. Palmieri, V. Quadrotta, F. Polticelli, L. Palmieri and M. Monné. (2024) Functional Roles of the Charged Residues of the C- and M-Gates in the Yeast Mitochondrial NAD⁺ Transporter Ndt1p. *International Journal of Molecular Sciences* 25, 13557.
392. A. Santoro, S. De Santis, F. Palmieri, A. Vozza, G. Agrimi, I. Andolfo, R. Russo, A. Palazzo, C. T. Storlazzi, A. Ferrucci, Y. W. Jun, E. T Kool, G. Fiermonte, A. Iolascon, E. Paradies, C. M. T. Marobbio and L. Palmieri. (2024) P2 Receptor Antagonists Rescue Defective Heme Content in an In Vitro SLC25A38-Associated Congenital Sideroblastic Anemia Cell Model. *International Journal of Molecular Sciences* 25, 13314.