

Curriculum vitae del Prof. Mario De Rosa

Data e luogo di nascita	31 Maggio 1945, Napoli
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- Laureato con lode in Chimica nell'Università di Napoli nel novembre 1968
- 1969 Ricercatore CNR
- 1970 Responsabile del reparto Batteri Termofili dell'Istituto per la Chimica di Molecole di Interesse Biologico (ICMB) del CNR
- 1973 Membro del Consiglio Scientifico del ICMB
- 1975 Ricercatore capo del CNR
- 1978-85 Professore incaricato di Chimica e Propedeutica Biochimica all'Università di Napoli, I° Facoltà di Medicina
- 1981 Vincitore della Medaglia Ciamician della Società Chimica Italiana conferita ai chimici che si sono particolarmente distinti per il loro lavoro scientifico
- 1981-86 Direttore dell'ICMB del CNR di Napoli
- 1981-91 Membro del Consiglio Scientifico dell'Istituto per lo Studio delle Sostanze Naturali di Interesse Alimentare e Chimico Farmaceutico del CNR di Catania
- 1983-91 Membro del Collegio dei Docenti del Dottorato di Ricerca in Scienze Biochimiche gestito da un consorzio tra le Università di Napoli e Bari
- 1985 Professore associato di Chimica e Propedeutica Biochimica all'Università di Napoli, I° Facoltà di Medicina
- 1986 Vincitore del concorso per professore di prima fascia di (BIO 10)
- 1989 Dal 30 maggio opta sulla cattedra di Chimica Medica all'Università di Napoli, I° Facoltà di Medicina
- 1989 Membro del Consiglio Scientifico di Finbiotec.
- 1990 Dall'11 luglio professore ordinario di Chimica e Propedeutica Biochimica all'Università di Napoli, I° Facoltà di Medicina
- 1992 Membro del Consiglio Scientifico di Technobiochip
- 1994-1998 Responsabile nazionale del gruppo Biotecnologie Biochimiche della Società Biochimica Italiana
- 1996-2005 Membro del C.D.A. della Seconda Università di Napoli
- 1998-2012 Coordinatore del Dottorato di Ricerca in " Tecnologie Biomediche Applicate alle Scienze Odontostomatologiche"
- 1999 Delegato del Rettore per il Polo Medico della Seconda Università di Napoli

- 2001 Responsabile di Progetto per la realizzazione del CRdC in “Biotecnologie Industriali” BioTekNet.
- 2002-2012 Direttore del Centro Grandi Apparecchiature della Seconda Università di Napoli
- 2003-2005 Direttore del Centro Interdipartimentale Ricerca e Management della Seconda Università di Napoli
- 2006 Pro-Rettore Vicario della Seconda Università di Napoli per il quadriennio 2006-2010
- 2011 Pro-Rettore Vicario della Seconda Università di Napoli per il quadriennio 2011-2014
- 2007-2012 Presidente BioTekNet scarl
- 2008-2011 Presidente del Consorzio CWB

Pubblicazioni e Brevetti Internazionali

Il Prof. M. De Rosa è autore di 283 lavori su riviste internazionali e di 26 brevetti.

Contratti di ricerca con l'industria

Il Prof. Mario De Rosa è stato responsabile dello sviluppo di numerosi progetti di ricerca finanziati dall'industria. Qui di seguito si elencano i gruppi industriali che negli ultimi anni hanno affidato al Prof. M. De Rosa lo sviluppo di progetti di ricerca regolati da specifiche convenzioni tra le industrie committenti e l'Università di Napoli:

- Merk, Gibipharma, Rhone – Poulenc, Dompè Farmaceutici, Alfa Wassermann, Arvall, Cyanamid, Ferrer Internacional, Inverni della Beffa, Neopharmed, Eni Ricerche, Tecnofarmaci, Technobiochip, Conciaricerche Italia s.r.l, Indena, Ceinge, Tecnogen, Sigma-Tau, Snam Progetti, Eurochem, Technapoli, Altergon Italia SRL, Institut Biochimique SA – IBSA, Dermofarma Italia SRL, Industria Olearia Biagio Mataluni SRL, Bouty SpA, Novartis, Sanofi Aventis SpA, Teslab SRL, Okolab SRL, Bioos Italia, Bracco SpA, Fondazione Maugeri

Partecipazione a progetti di interesse Nazionale ed Internazionale

Il Prof. Mario De Rosa ha negli ultimi anni partecipato in qualità di responsabile di Unità Operativa o di gruppo di ricerca ai seguenti progetti sottoposti al finanziamento pubblico a livello nazionale ed internazionale:

- Progetto Finalizzato CNR Chimica Fine e Secondaria
- Progetto Strategico CNR Biotecnologie
- Progetto Finalizzato CNR Biotecnologie e Biostrumentazioni
- Progetto Strategico CNR Bioseparazioni
- Progetto Speciale CNR Bioseparazioni
- Progetto Nazionale legge 46 Enzimi con nuove proprietà
- Progetto Europeo Biotechnological Action Program
- Progetto Nazionale legge 46 Bioelettronica
- Progetto Strategico CNR Molecular Manufacturing
- Progetto Nazionale Biotecnologie I

- Progetto Nazionale Biotecnologie II
- Progetto Europeo Extremophiles as Cell Factories
- Progetto INFM Progetto Sud Trealosio
- Progetto Regionale Legge 41
- Progetto Nazionale MURST 1997 Biocatalisi e Bioconversioni
- Progetto Nazionale MURST-CNR Legge 95/95 Biotecnologie
- Progetto Nazionale MURST 1999 Proprietà strutturali e funzionali, aspetti applicativi di proteine isolate da termofili
- Progetto MUR legge 297 Nuovi processi biotecnologici per la produzione di condroitina solfato
- Progetto MIUR DM593/00 - Laboratorio pubblico-privato per lo sviluppo di processi e prodotti innovativi nel settore dei farmaci antiinfettivi (Laboratorio Interdisciplinare Farmaci Antiinfettivi: LIFA)
- Progetto PON01_00117 – Antigeni e adiuvanti per vaccini ed immunoterapia
- Progetto PON01_02093 - Studio di nuove tecnologie e piattaforme tecnologiche per il miglioramento di processi produttivi di principi attivi farmaceutici di interesse industriale e ricerca di nuove molecole bioattive da sorgenti naturali”
- Progetto PON01_01226 - Dal nutraceutico al farmaco per strategie integrate di prevenzione e terapia “NUTRAFAST”
- Progetto PON01_02464 - Nuovi farmaci biotecnologici attivi attraverso la modulazione dell’attività recettoriale

Il prof. Mario De Rosa è stato inoltre responsabile dei seguenti progetti di formazione:

- Progetto di formazione per “Esperti in applicazioni industriali delle biotecnologie
- Progetto di Work on the Job e Alta Formazione “Esperti in biotecnologie industriali ed in management dell’innovazione nel campo delle biotecnologie”
- Progetto Rete di eccellenza “STRategie terapeutiche INnovative” (acronimo “STRAIN”)

Tematiche recenti

Il Prof. Mario De Rosa, attualmente si occupa di Biotecnologie Industriali svolgendo un ruolo importante nel rilancio di questo comparto produttivo a livello regionale e nazionale, come responsabile del Centro Regionale di Competenza in Biotecnologie Industriali BioTekNet scarl. Altre tematiche di interesse sono cell-factories, cellule staminali e loro applicazioni, nuovi principi attivi di interesse nel campo dei farmaci, dei nutraceutici e dei cosmeceutici.

Elenco dei lavori

- 1) G. Marino, M. De Rosa, V. Buonocore and V. Scardi
Characterization by isoelectric focusing of pig heart aspartate aminotransferase
FEBS Letters 5, 347, (1969) **(I.F. 3.601)**
- 2) M. De Rosa, A. Gambacorta, L. Minale and J.D. Bu'Lock
Bacterial triterpenes
J.Chem.Soc.Chem.Comm., 619, (1971)
- 3) M. De Rosa, A. Gambacorta and J.D. Bu'Lock
An isolate of *Bacillus acidocaldarius* an acidophilic thermophile with unusual lipids
Giornale di microbiologia, 19, 145, (1971)
- 4) M. De Rosa, A. Gambacorta, L. Minale and J.D. Bu'Lock
Cyclohexane fatty acids from a thermophilic bacterium
J. Chem. Soc. Chem. Comm., 1334, (1971)
- 5) G. Marino, M. Paternò and M. De Rosa
Multiple forms of aspartate aminotransferase. The formation of ω -AAT
FEBS Letters, 21, 53, (1972) **(I.F. 3.601)**
- 6) M. De Rosa, A. Gambacorta, L. Minale and J.D. Bu'Lock
The formation of ω -cyclohexyl - fatty acids from shikimate in an acidophilic thermophilic bacillus. A new biosynthetic pathway
Biochem. J., 128, 751, (1972) **(I.F. 5.016)**
- 7) P. De Luca, M. De Rosa, L. Minale and G. Sodano
Marine sterols with a new pattern of side-chain alkylation from the sponge *Aplisina* (*Verongia*) *aerophoba*
J. Chem. Soc. Perkin 1, 2132, (1972)
- 8) P. De Luca, M. De Rosa, L. Minale, R. Puliti, G. Sodano, F. Giordano and L. Mazzarella
Synthesis of 24,28-didehydroaplysterol and X ray cristal structure of aplysterol: unusual marine sterols
J. Chem. Soc. Chem. Comm., 825, (1973)
- 9) M. De Rosa, L. Minale and G. Sodano
Metabolism of Porifera I. Some studies on the biosynthesis of fatty acids, sterols and bromo-compounds by the sponge *Verongia aerophoba*
Comp. Biochem. Physiol., 45B, 883, (1973) **(I.F. 1.989)**
- 10) M. De Rosa, L. Minale and G. Sodano
Metabolism in Porifera II. Distribution of sterols
Comp. Biochem. Physiol., 46B, 823, (1973) **(I.F. 1.989)**
- 11) M. De Rosa, A. Gambacorta, L. Minale and J.D. Bu'Lock
Isoprenoids of *Bacillus acidocaldarius*
Phytochemistry, 12, 1117, (1973) **(I.F. 3.150)**
- 12) M. De Rosa, A. Gambacorta, G. Millonig and J.D. Bu'Lock
Convergent characters of extremely thermophilic acidophilic bacteria
Experientia, 30, 866, (1974) **(I.F. 1.643)**
- 13) M. De Rosa, A. Gambacorta and J.D. Bu'Lock
Effects of pH and temperature on the fatty acid composition of *Bacillus acidocaldarius*
J. Bacteriol., 117, 212, (1974) **(I.F. 3.726)**
- 14) M. De Rosa, A. Gambacorta, L. Minale and J.D. Bu'Lock
Cyclic diether lipids from very thermophilic acidophilic bacteria
J. Chem. Soc. Chem. Comm., 543, (1974)

- 15) M. De Rosa, A. Gambacorta and J.D. Bu'Lock
Origin of cyclohexanecarboxylic acid in *Bacillus acidocaldarius*
Phytochemistry, 13, 1793, (1974) **(I.F. 3.150)**
- 16) M. De Rosa, A. Gambacorta and J.D. Bu'Lock
Specificity effects in the biosynthesis of fatty acids in *Bacillus acidocaldarius*
Phytochemistry, 13, 905, (1974) **(I.F. 3.150)**
- 17) M. De Rosa and A. Gambacorta
Qual'è la temperatura massima per la vita sul nostro pianeta?
Le Scienze, 80, 74, (1975)
- 18) M. De Rosa, A. Gambacorta and L. Minale
A terpenoid 4,7-thianaphtenequinone from an extremely thermophilic and acidophilic microorganism
J. Chem. Soc. Chem. Comm., 392, (1975)
- 19) M. De Rosa, L. Minale and G. Sodano
Metabolism in Porifera IV. Biosynthesis of 3 β -hydroxymethyl-A-nor-5 α -steranes from cholesterol by *Axinella verrucosa*
Experientia, 31, 408, (1975) **(I.F. 1.643)**
- 20) M. De Rosa and A. Gambacorta
Identification of natural and semisynthetic ω -cycloalkyl fatty acids
Phytochemistry 14, 209, (1975) **(I.F. 3.150)**
- 21) M. De Rosa, A. Gambacorta and J.D. Bu'Lock
Extremely thermophilic acidophilic bacteria convergent with *Sulfolobus acidocaldarius*
J. Gen. Microbiol. 86, 156-164 (1975)
- 22) G. Millonig, M. De Rosa, A. Gambacorta and J.D. Bu'lock
Ultrastructure of an extremely thermophilic acidophilic microorganism
J. Gen. Microbiol. 86, 165, (1975)
- 23) M. De Rosa, L. Minale and G. Sodano
Metabolism in Porifera V. Biosynthesis of 19-nor-stanols Conversion of cholesterol into 19-nor-cholestanols by the sponge *Axinella polypoides*
Experientia 31, 758, (1975) **(I.F. 1.643)**
- 24) M. G. Cacace, M. De Rosa and A. Gambacorta
DNA-dependent RNA polymerase from the thermophilic bacterium *Caldariella acidophila*.
Purification and basic properties of the enzyme
Biochemistry 15, 1692, (1976) **(I.F. 3.226)**
- 25) M. De Rosa, A. Gambacorta and J.D. Bu'Lock
The *Caldariella* group of extreme thermoacidophile bacteria: direct comparison of lipids in *Sulfolobus*, *Thermoplasma* and the MT strains
Phytochemistry 15, 143, (1976) **(I.F. 3.150)**
- 26) M. De Rosa, S. De Rosa, A. Gambacorta and J.D. Bu'Lock
Isoprenoid triether lipids from *Caldariella*
Phytochemistry, 15, 1995, (1976) **(I.F. 3.150)**
- 27) M. De Rosa, S. De Rosa, A. Gambacorta, M. Carteni-Farina and V. Zappia
Occurrence and characterization of new polyamines in the extreme thermophile *Caldariella acidophila*
Biochem. Biophys. Res. Comm., 69, 253, (1976)
- 28) M. G. Gerace, M. De Rosa and A. Gambacorta
Thermophilicity and thermostability of RNA polymerases from two strains of *Caldariella acidophila*, an extremely thermoacidophilic bacterium
Experientia, Suppl., 26, 363, (1976) **(I.F. 1.643)**

- 29) V. Buonocore, C. Caporale, M. De Rosa and A. Gambacorta
Stable, inducible thermoacidophilic α -amylase from *Bacillus acidocaldarius*
J. Bacteriol., 128, 515, (1976) **(I.F. 3.726)**
- 30) M. De Rosa, L. Minale and G. Sodano
Metabolism in Porifera VI. Role of the 5,6 double bond and the fate of the C-4 cholesterol during the conversion into 3 β -hydroxymethyl-A-nor-5 α -steranes in the sponge *Axinella verrucosa*
Experientia, 32, 1112, (1976) **(I.F. 1.643)**
- 31) M. De Rosa, S. De Rosa, A. Gambacorta, L. Minale and J.D. Bu'Lock
Chemical structure of the ether lipids of thermophilic acidophilic bacteria of the *Caldariella* group
Phytochemistry, 16, 1961, (1977) **(I.F. 3.150)**
- 32) M. De Rosa, S. De Rosa, A. Gambacorta and J.D. Bu'Lock
Lipid structures in the *Caldariella* group of extreme thermoacidophile bacteria
J.Chem.Soc.Chem.Comm., 514, (1977)
- 33) M. De Rosa, S. De Rosa and A. Gambacorta
¹³C-NMR assignment and biosynthetic data for the ether lipids of *Caldariella*
Phytochemistry, 16, 1909, (1977) **(I.F. 3.150)**
- 34) M. De Rosa, S. De Rosa, A. Gambacorta, L. Minale, R. Thomson and R. Worthington
*Caldariella*quinone, a unique benzo-b-thiophen-4,7-quinone from *Caldariella acidophila*, an extremely thermophilic and acidophilic bacterium
J. Chem. Soc. Perkin 1, 653, (1977)
- 35) P. Cammarano, F. Mazzei, P. Londei, M. De Rosa, S. De Rosa and A. Gambacorta
Stability of the large ribosomal subunit of the extremely thermophilic acidophilic bacterium *Caldariella acidophila*
In: Translation of natural and synthetic polynucleotides. A.B. Legoeckii ed.
Elsevier, Neederland, 367 (1977)
- 36) M. De Rosa, A. Gambacorta and L. Minale
La biochimica dei microrganismi termofili
Annuario della EST, Enciclopedia della scienza e della tecnica
Mondadori, 18, 330, (1977)
- 37) M. De Rosa and A. Gambacorta
Adattamenti biochimici alla temperatura
Le Scienze, 120, 78, (1978)
- 38) M. De Rosa, S. De Rosa, A. Gambacorta, M. Carteni-Farina and V. Zappia
The biosynthetic pathway of new polyamines in *Caldariella acidophila*
Biochem. J., 176, 1, (1978) **(I.F. 5.016)**
- 39) A. Oliva, M. Carteni-Farina, G. Napolitano, G. Romano, V. Zappia, M. De Rosa and A. Gambacorta
5'-metiltioadenosina fosforilasi da *Caldariella acidophila*. I Purificazione e parziale caratterizzazione
Bollettino SIBS, 54, 2355, (1978)
- 40) M. Carteni-Farina, A. Oliva, G. Romano, G. Napolitano, V. Zappia, M. De Rosa and A. Gambacorta
5'-metiltioadenosina fosforilasi da *C. acidophila*. II Identificazione e caratterizzazione dei prodotti di reazione
Bollettino SIBS, 54, 2362, (1978)
- 41) V. Zappia, R. Porta, M. Carteni-Farina, M. De Rosa and A. Gambacorta
Polyamine distribution in eukaryotes: occurrence of sym-nor-spermidine and sym-nor-spermine in arthropods
FEBS Letters, 94, 161, (1978) **(I.F. 3.601)**
- 42) M. De Rosa, C. Di Pinto, A. Gambacorta and B. Nicolaus

- ^{13}C NMR spectroscopy of cycloalkyl fatty acids
Phytochemistry, 18, 1735, (1979) **(I.F. 3.150)**
- 43) A. Gambacorta, M. De Rosa, R. Porta, M. Carteni-Farina and V. Zappia
Occurrence of novel polyamines in eukaryotes
Italian J. Biochem., 28, 373, (1979) **(I.F. 0.375)**
- 44) M. Carteni-Farina, A. Oliva, G. Romeo, G. Napolitano, M. De Rosa, A. Gambacorta and V. Zappia
5'-methylthioadenosine phosphorylase from *Caldariella acidophila*. Purification and properties
Eur. J. Biochem., 101, 317, (1979) **(I.F. 3.129)**
- 45) A. Oliva, M. Carteni-Farina, G. Romeo, M. De Rosa and A. Gambacorta
Studies on 5'-methylthioadenosine phosphorylase from *Caldariella acidophila*
Italian J. Biochem., 28, 380, (1979) **(I.F. 0.375)**
- 46) M. De Rosa, A. Gambacorta, M. Carteni-Farina and V. Zappia
Novel bacterial polyamines
In: Polyamines in biomedical research. J.M. Gaugas ed.: published by J. Wiley & Sons, New York, 255, (1980)
- 47) M. De Rosa, S. De Rosa, A. Gambacorta and J.D. Bu'lock
Structure of Calditol, a new branched-chain nonitol, and of the *Caldariella* group
Phytochemistry, 19, 249, (1980) **(I.F. 3.150)**
- 48) M. De Rosa, A. Gambacorta, B. Nicolaus, V. Buonocore and E. Poggio
Immobilized bacterial cells containing a thermostable β -galactosidase
Biotechnology Letters, 2, 29, (1980) **(I.F. 1.768)**
- 49) M. De Rosa, A. Gambacorta, E. Esposito, E. Drioli and S. Gaeta
Thermophilic microbial cells immobilized in cellulose acetate membranes
Biochimie, 62, 517, (1980) **(I.F. 3.787)**
- 50) M. De Rosa, E. Esposito, A. Gambacorta, B. Nicolaus and J.D. Bu'Lock
Effects of temperature on ether lipid composition of *Caldariella acidophila*
Phytochemistry, 19, 827, (1980) **(I.F. 3.150)**
- 51) M. De Rosa, A. Gambacorta and B. Nicolaus
Regularity of isoprenoid biosynthesis in the ether lipids of archaeobacteria
Phytochemistry, 19, 791, (1980) **(I.F. 3.150)**
- 52) M. De Rosa, A. Gambacorta, B. Nicolaus, S. Sodano and J.D. Bu'Lock
Structural regularities in tetraether lipids of *Caldariella* and their biosynthetic and phyletic implications
Phytochemistry, 19, 833, (1980) **(I.F. 3.150)**
- 53) M. De Rosa, A. Gambacorta, B. Nicolaus and J.D. Bu'Lock
Complex lipids of *Caldariella acidophila*, a thermoacidophile archaeobacterium
Phytochemistry, 19, 821, (1980) **(I.F. 3.150)**
- 54) E. Drioli, S. Gaeta, C. Carfagna, M. De Rosa, A. Gambacorta and B. Nicolaus
Thermophilic enzymatic semipermeable membranes
J. Memb. Sci., 6, 345, (1980) **(I.F. 3.673)**
- 55) V. Buonocore, O. Sgambati, M. De Rosa, E. Esposito and A. Gambacorta
A constitutive β -galactosidase from the extreme thermoacidophile archaeobacterium *Caldariella acidophila*:
properties of the enzyme in the free state and in immobilized whole cells
J. Appl. Biochem., 2, 390, (1980) **(I.F. 1.879)**
- 56) E. Drioli, G. Iorio, M. Rossi, M. De Rosa and A. Gambacorta
Kinetic behaviour of immobilized enzymes in polymeric porous membranes
In: Recent developments in filter media and their applications. Proceedings of the International Symposium held
in Bruges 18-19 September 1980, 551

- 57) M. De Rosa, A. Gambacorta, G. Sodano and A. Trabucco
Transformation of progesterone by *Caldariella acidophila*, an extreme thermophilic bacterium
Experientia, 37, 541-542 (1981) **(I.F. 1.643)**
- 58) P. Galletti, M. De Rosa, A. Gambacorta, C. Manna, R. Festinese and V. Zappia
Protein methylation in *Caldariella acidophila*, an extreme thermo-acidophilic archaeobacterium
FEBS Letters, 124, 62, (1981) **(I.F. 3.601)**
- 59) E. Drioli, G. Iorio, R. Molinari, M. De Rosa, A. Gambacorta and E. Esposito
High-temperature membrane-entrapped cells
Biotechnology and Bioengineering, 23, 221, (1981) **(I.F. 3.7)**
- 60) M. De Rosa, A. Gambacorta, L. Lama, B. Nicolaus and V. Buonocore
Immobilization of thermophilic microbial cells in crude egg white
Biotechnology Letters, 3, 183, (1981) **(I.F. 1.768)**
- 61) G. Romeo, G. Cocchiara, M. De Rosa, F. Giordano and V. Zappia
Trasporto della citidindifosfocolina in differenti modelli biologici. I) Sintesi e caratterizzazione della [5^3H , Met^{14}C] citidindifosfocolina
Bollettino SIBS, 57, 1175, (1981)
- 62) P. Galletti, M. De Rosa, A. Gambacorta, C. Manna, F. Della Ragione and F. Giordano
Metilazione delle proteine in *Caldariella acidophila*, parziale caratterizzazione dell'enzima proteina metilasi II
Bollettino SIBS 57, 1075, (1981)
- 63) G. Romeo, G. Cocchiara, M. De Rosa, A. Andreana, G. Ruggiero and V. Zappia
Trasporto della citidindifosfocolina in differenti modelli biologici. II) Trasporto della [5^3H , Met^{14}C] citidindifosfocolina nel fegato di ratto isolato e perfuso
Bollettino SIBS, 57, 1182, (1981)
- 64) M. De Rosa, A. Gambacorta, B. Nicolaus and S. Sodano
Incorporation of labelled glycerols into ether lipids in *Caldariella acidophila*
Phytochemistry, 21, 595, (1982) **(I.F. 3.150)**
- 65) A. Gliozzi, R. Rolandi, M. De Rosa and A. Gambacorta
Artificial black membranes from bipolar lipids of thermophilic archaeobacteria
Biophysical J., 37, 563, (1982) **(I.F. 4.218)**
- 66) E. Drioli, G. Iorio, R. Santoro, M. De Rosa, A. Gambacorta and B. Nicolaus
Whole cell immobilization in polyurethane structural foam
J. Mol. Catalysis, 14, 247, (1982)
- 67) M. De Rosa, A. Gambacorta, B. Nicolaus, H.N.M. Ross, W. D. Grant and J.D. Bu'Lock
An asymmetric archaeobacterial diether lipid from alkaliphilic halophiles
J. Gen. Microbiol. 128, 343, (1982)
- 68) G. Cocchiara, G. Romeo, M. De Rosa and V. Zappia
Trasporto della citidindifosfocolina in differenti modelli biologici. III) Trasporto della [5^3H , Met^{14}C] citidindifosfocolina in eritrociti umani intatti
Bollettino SIBS, 58, 218, (1982)
- 69) P. Cammarano, P. Londei, R. Biagini, M. De Rosa and A. Gambacorta
Characterization of the secondary structure features of *Escherichia coli*, *Caldariella acidophila* and mammalian ribosomal RNA species by chemical modification of sterically exposed bases
Eur. J. Biochem. 128, 297, (1982) **(I.F. 3.129)**
- 70) P. Cammarano, F. Mazzei, P. Londei, M. De Rosa and A. Gambacorta

Secondary structure features of ribosomal RNA species of extremely thermoacidophilic archaeobacteria (*Caldariella acidophila*), moderate thermoacidophilic and mesophilic eubacteria. Spectrofotometric studies. *Biochim. Biophys. Acta* 669, 1, (1982) **(I.F. 3.998)**

- 71) G. Sodano, A. Trabucco, M. De Rosa and A. Gambacorta
Microbiological reduction of steroidal ketones using the thermophilic bacterium *Caldariella acidophila*
Experientia, Vol. 38, N° 11, 1311-1312 (1982) **(I.F. 1.643)**
- 72) A. Gliozzi, R. Rolandi, M. De Rosa, A. Gambacorta and B. Nicolaus
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In: *Transport in Biomembranes: Model systems and reconstitution*. R. Antolini, A. Gliozzi and A. Iorio eds.
Raven Press., New York, 39, (1982)
- 73) A. Gliozzi, G. Paoli, R. Rolandi, M. De Rosa and A. Gambacorta
Structure and transport properties of artificial bipolar lipid membranes
Bioelectrochemistry and Bioenergetics 9, 591, (1982) **(I.F. 3.520)**
- 74) E. Drioli, G. Iorio, M. De Rosa, A. Gambacorta and B. Nicolaus
High temperature cell trapped ultrafiltration membranes
In: *Enzyme Engineering*. I. Chibata, S. Fukui and Jr.L.B. Wingard eds.
Plenum Press, N.Y., 6, 209, (1982)
- 75) E. Drioli, G. Iorio, M. De Rosa, A. Gambacorta and B. Nicolaus
High temperature immobilized-cell ultrafiltration reactors
J. Membr. Science 11, 365, (1982) **(I.F. 3.673)**
- 76) P. Cammarano, A. Teichner, G. Chinali, P. Londei, M. De Rosa, A. Gambacorta and B. Nicolaus
Archaeobacterial elongation factor Tu insensitive to pulvomycin and kirromycin
FEBS Letters 148, 255, (1982) **(I.F. 3.601)**
- 77) V. Zappia, M. Carteni-Farina, G. Romeo, M. De Rosa and A. Gambacorta
Purification and properties of 5'-methylthioadenosine phosphorylase from *Caldariella acidophila*
In: *Methods in Enzymology, Polyamines*, H. Tabor and C. Tabor eds.
Published by Academic Press, N.Y., 94, 355, (1983)
- 78) P. Londei, A. Teichner, P. Cammarano, M. De Rosa and A. Gambacorta
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