

SCIENTIA

International Review of Scientific Synthesis - *Founded in 1970*

Scientific Editorial Board: Piero Caldirola · Ludovico Cogliati · Giuseppe Montalenti
Editor: N. Bonetti.

SCIENTIA has never abandoned its programme of rigorous scientific synthesis; it aims at going beyond rather than refuting disciplinary specialization.

The motivations behind this approach can be explained today on the one hand through the formation of new areas of scientific research, and on the other through the lively evolution of those social frameworks which are at one and the same time both cause and effect of such research.

Scientia takes on the task it has itself with the help of contributions from scientists and philosophers from all parts of the world.

Publication: 3 volumes of approx. 400 pages each. Articles are published in the language in which they were written and in the integral English and Italian versions.

Annual subscription: Italy Lit. 22,000 - Europe Lit. 27,000 - Non-European countries \$ 44.00
Specimen copy: Italy Lit. 5,000 - Europe Lit. 5,500 - Non-European countries \$ 7.50

SCIENTIA - Via Guastalla 9 - 20122 Milano (Italy) - Telephone (02) 780.669

“LABORATORIO”

Análisis clínicos - Bacteriología - Inmunología - Parasitología
Hematología - Anatomía patológica - Química clínica

REVISTA MENSUAL

FUNDADORES:

Dr. Justo Covaleda Ortega

Dr. Eduardo Suárez Peregrín

Director: G. PIEDROLA ANGULO

Redacción y Administración: Pl. Campos, 5. Ap. Correos, 193. Granada

Precio de suscripción anual: España: 2000 pesetas

Extranjero: 30 \$ o equivalencia

Correo aéreo: Sobretasa 22 \$ o »

Editada por

CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS
(Departamento de Investigaciones Fisiológicas. Pamplona)

**TERMINADO DE IMPRIMIR EN 30 DE JUNIO 1981
EN LOS TALLERES DE GRÁFICAS CONDAL
CLOT, 102 Y 104 - BARCELONA-26**

CONTENTS

LINARES, A., C. MARCO, M. D. SUÁREZ and E. GARCÍA-PEREGRÍN. — Properties of Mevalonate-Activating Enzymes in Developing Chick Brain.	115
BURGUETE, J., J. A. GARCÍA and M. S. CAMPOS. — Exchange of Chloride and Bicarbonate at Terminal Ileum in Rabbit: The Process Active Character and Physiological Sense.	121
BELLIDO, C., F. GUERRA, R. AGUILAR, P. SÁNCHEZ-GUIJO and F. GARRIDO. — Immunocomplexes and Tumour Growth. Detection of Immunocomplexes in High and Low Malignant Tumour Sublines	127
RUIZ DE GALARRETA, C. M., F. LÓPEZ-BLANCO and L. F. FANJUL. — The Effect of Starvation, Diabetes or Hypophysectomy on the Testicular Function in Rat.	135
MENDIOLA, P., F. J. MATAIX, M. ILLERA and G. VARELA. — Effect of Lindane on Protein Nutritive Utilization in Trout (<i>Salmo gairdneri</i>)	141
CASTRO, R., and A. PESTAÑA. — Effect of Sodium Butyrate Treatment of <i>HeLa</i> Cells on the Transcriptional Activity of their Isolated Nuclei	147
JUÁREZ, A., J. VIVES-REGO, J. IMPERIAL, J. RIPOLL and R. PARÉS. — Influence of Chloramphenicol on Glutamic Acid Excretion in <i>Citrobacter intermedius</i> C3.	153
CASAS, J. M., M. J. MÁS and C. M. CUCHILLO. — Inhibition of Phytohaemagglutinin-Induced Transformation on Lymphocytes by Human Spleen Extracts.	159
ORTS, A., I. BALTAR, J. CASTEJÓN, J. L. MARTÍ and J. ESPLUGUES. — Effect of Insulin on Cardiac Contractility.	165
TORRES, M. D., F. GUTIÉRREZ, G. RUEDA and C. OSORIO. — Immunogenetic Studies of H-2 Antigens of MCG3 Tumour Cells	173
OBESO, J. A., J. M. TEIJERA, J. F. MARTÍ-MASSÓ, M. I. IRAGUI, N. CARRERA and J. TEIJERA. — Conduction and Origin of Evoked Potentials in the Somesthetic Pathway.	177
BREGANTE, M. A. — Responses to Electrical Stimulation in the Ruminal Artery-Rumen Wall Preparation	185
PELLÓN, J. R. and R. F. GÓMEZ. — <i>In vivo</i> Heat Damage to the <i>E. coli</i> Nucleoid	189
FERNÁNDEZ-TÁRRAGO, J. and G. NICOLÁS. — Purification and Characterization of an α -Amylase from the Cotyledons of Germinating Lentils	197
BALLESTEROS, P., M. C. AVENDAÑO, S. CAÑADAS and M. P. GONZÁLEZ. — Effect of Diphenylhydantoin, Granatane-3-spiro-5'-hydantoin and Lepazol on Mouse Brain Glutamate Dehydrogenase, Urea and Ammonia Levels in Brain.	205
GONZÁLEZ-BARÓN, S., M. MOLINA, F. GARCÍA-MATILLA and G. ALVAREZ DE TOLEDO. — Influence of the Superior Laryngeal and Recurrent Nerves on Several Reflex Respiratory Responses	211
LÓPEZ-MERINO, V., L. D. INSA, J. A. FERRERO, S. BOTELLA, R. LLOPIS, J. MERINO, S. MORELL and J. CHORRO. — Function of Atrioventricular Node Conduction: Hyperbolic Model	221
<i>Letters to the Editor</i>	
PLANAS, J. M., M. MORETÓ and J. BOLUFE. — Effect of Calcium Omission on Active Transport in Suckling Rats	231
BOOK REVIEWS	233

INDICE

LINARES, A., C. MARCO, M. D. SUÁREZ and E. GARCÍA-PEREGRÍN. — Properties of Mevalonate-Activating Enzymes in Developing Chick Brain.	115
BURGUETE, J., J. A. GARCÍA y M. S. CAMPOS. — Intercambio de cloruro y bicarbonato en íleon terminal de conejo: carácter activo del proceso y sentido fisiológico del mismo	121
BELLIDO, C., F. GUERRA, R. AGUILAR, P. SÁNCHEZ-GUIJO and F. GARRIDO. — Immunocomplexes and Tumour Growth. Detection of Immunocomplexes in High and Low Malignant Tumour Sublines	127
RUIZ DE GALARRETA, C. M., F. LÓPEZ-BLANCO and L. F. FANJUL. — The Effect of Starvation, Diabetes or Hypophysectomy on the Testicular Function in Rat.	135
MENDIOLA, P., F. J. MATAIX, M. ILLERA y G. VARELA. — Influencia del linfano sobre la utilización nutritiva de la proteína por la trucha (<i>Salmo gairdneri</i>)	141
CASTRO, R., and A. PESTAÑA. — Effect of Sodium Butyrate Treatment of <i>HeLa</i> Cells on the Transcriptional Activity of their Isolated Nuclei	147
JUÁREZ, A., J. VIVES-REGO, J. IMPERIAL, J. RIPOLL y R. PARÉS. — Influencia del cloranfenicol en la excreción de glutamato por <i>Citrobacter intermedius</i> C3	153
CASAS, J. M., M. J. MÁS and C. M. CUCHILLO. — Inhibition of Phytohaemagglutinin-Induced Transformation on Lymphocytes by Human Spleen Extracts.	159
ORTS, A., I. BALTAR, J. CASTEJÓN, J. L. MARTÍ y J. ESPLUGUES. — Efecto de la insulina sobre la contractilidad cardíaca	165
TORRES, M. D., F. GUTIÉRREZ, G. RUEDA and C. OSORIO. — Immunogenetic Studies of H-2 Antigens of MCG3 Tumour Cells	173
OBESO, J. A., J. M. TEIJERA, J. F. MARTÍ-MASSÓ, M. I. IRAGUI, N. CARRERA y J. TEIJERA. — Conducción y origen de los potenciales evocados en la vía somestésica	177
BREGANTE, M. A. — Respuestas al estímulo eléctrico periarterial en la pared del rumen	185
PELLÓN, J. R. y R. F. GÓMEZ. — Daño térmico <i>in vivo</i> al nucleoide de <i>Escherichia coli</i>	189
FERNÁNDEZ-TÁRRAGO, J. and G. NICOLÁS. — Purification and Characterization of an α -Amylase from the Cotyledons of Germinating Lentils	197
BALLESTEROS, P., M. C. AVENDAÑO, S. CAÑADAS and M. P. GONZÁLEZ. — Effect of Diphenylhydantoin, Granatane-3-spiro-5'-hydantoin and Lepazol on Mouse Brain Glutamate Dehydrogenase, Urea and Ammonia Levels in Brain.	205
GONZÁLEZ-BARÓN, S., M. MOLINA, F. GARCÍA-MATILLA y G. ÁLVAREZ DE TOLEDO. — Influencia de los nervios laríngeo superior y recurrente en diversas respuestas respiratorias reflejas.	211
LÓPEZ-MERINO, V., L. D. INSA, J. A. FERRERO, S. BOTELLA, R. LLOPIS, J. MERINO, S. MORELL and J. CHORRO. — Function of Atrioventricular Node Conduction: Hyperbolic Model	221
<i>Carta al Editor</i>	
PLANAS, J. M., M. MORETÓ and J. BOLUFER. — Effect of Calcium Omission on Active Transport in Suckling Rats	231
CRÍTICA DE LIBROS.	233