

# **SCIENTIA**

International Review of Scientific Synthesis - Founded in 1907

**Scientific Editorial Board:** Edoardo Amaldi · Ludovico Geymonat

Giuseppe Montalenti

**Editor:** N. Bonetti

SCIENTIA was born within the framework of a cultural project based on the belief in the fundamental importance of scientific rationality and the necessity for restoring unity to the various fields of knowledge.

This project has lost nothing of its validity today: at present, in fact, the end of rationality is proclaimed on the one hand, while on the other scientific research grows increasingly specialized in directions that appear to be unable to communicate one with another.

For this very reason the need for unifying thought is felt more urgently: Scientia's task is thus carried out with the contribution of scientists and philosophers the world over.

Scientia offers, furthermore, an up-to-date picture of the state of knowledge of the individual disciplines and of the problems connected with scientific research.

Annual subscription: Italy Lit. 40,000 - Europe Lit. 45,000 - Non-European countries \$ 60.00

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

TERMINADO DE IMPRIMIR EL 11 DE OCTUBRE DE 1991  
EN LOS TALLERES DE TECNOGRAF, S.A.  
PASEO TORRAS I BAGES, 29-33  
08030 BARCELONA

## REVISTA ESPAÑOLA DE FISIOLOGÍA

Vol. 47, No. 3, September 1991

ISSN 0034-9402. REFIAS

### CONTENTS

VARA, E. and J. TAMARIT-RODRÍGUEZ. — Effects of Calcium Channel Blockers of Insulin Secretion and $^{45}\text{Ca}^{2+}$ -Uptake of Rat Islets Stimulated by Glucose or $\text{K}^+$ -Depolarization .....	103
LUZARDO, A. D., F. X. NIELL and F. LÓPEZ-FIGUEROA. — Photocontrol of Chlorophyll $\alpha$ and Phycocyanin Synthesis in the Cyanobacteria <i>Calothrix crus-tacea</i> Schousboe .....	109
MÉNDEZ-MARCO, M. T., C. ARCE DE OBIETA and E. PALACIOS-ALAIZ. — Variations of Erythrocyte Membrane Proteins in Cirrhotic Patients .....	115
AMADOR, A. G. and A. BARTKE. — Effects of <i>in vivo</i> and <i>in vitro</i> Exposure to Bromocryptine on Testicular LH Receptors and <i>in vitro</i> Testosterone Production in Syrian Hamsters .....	121
FAGUNDES, D. J., H. PLAPLER and S. GOLDENBERG. — Small Bowel and Colon Glucose Absorption Study in Rats by an Adaptation of Sols and Ponz Method .....	129
ALFONSO, M., J. MARCÓ, I. A. BALVIS and J. A. PAZO. — Direct Action of Ethanol on Pituitary Prolactin Secretion <i>in vitro</i> .....	133
SERRANO-LOZANO, A., P. MORATA, M. MONTIEL, J. P. PÉREZ-AGUILAR and M. MORELL. — Thyroid Hormones in Brain Regions of Adult Rat Effect of Hypothyroidism .....	141
BALSALOBRE, B. — Complement, Circulating Immunocomplexes and Autoantibodies after Ionizing Radiation Exposure .....	147
<i>Letters to the Editor</i>	
MANCERA, J. M., P. FERNÁNDEZ-LLEBREZ and J. M. PÉREZ-FÍGARES. — Effect of the Dehydration on the CRH and Arginine-Vasotocin in the Median Eminence of the Snake <i>Natrix maura</i> .....	151
BOOK REVIEWS .....	153

## REVISTA ESPAÑOLA DE FISIOLOGÍA

Vol. 47, N.º 3, septiembre 1991

ISSN 0034-9402. REFIAS

### ÍNDICE

VARA, E. and J. TAMARIT-RODRÍGUEZ. — Effects of Calcium Channel Blockers of Insulin Secretion and $^{45}\text{Ca}^{2+}$ -Uptake of Rat Islets Stimulated by Glucose or $\text{K}^+$ -Depolarization .....	103
LUZARDO, A. D., F. X. NIELL y F. LÓPEZ-FIGUEROA. — Fotocontrol de la síntesis de clorofila $\alpha$ y de ficocianina en la cianobacteria <i>Calothrix crustacea</i> Schousboe .....	109
MÉNDEZ-MARCO, M. T., C. ARCE DE OBIETA y E. PALACIOS-ALAIZ. — Variaciones de las proteínas de membrana de eritrocito en pacientes con cirrosis ...	115
AMADOR, A. G. and A. BARTKE. — Effects of <i>in vivo</i> and <i>in vitro</i> Exposure to Bromocryptine on Testicular LH Receptors and <i>in vitro</i> Testosterone Production in Syrian Hamsters .....	121
FAGUNDES, D. J., H. PLAPLER and S. GOLDENBERG. — Small Bowel and Colon Glucose Absorption Study in Rats by an Adaptation of Sols and Ponz Method	129
ALFONSO, M., J. MARCÓ, I. A. BALVIS and J. A. PAZO. — Direct Action of Ethanol on Pituitary Prolactin Secretion <i>in vitro</i> .....	133
SERRANO-LOZANO, A., P. MORATA, M. MONTIEL, J. P. PÉREZ-AGUILAR y M. MORELL. — L-tiroxina y L-triiodotironina en tejidos cerebrales de rata adulta. Afectación ante un estado hipotiroidico .....	141
BALSALOBRE, B. — Complement, Circulating Immunocomplexes and Autoantibodies after Ionizing Radiation Exposure .....	147
<i>Cartas al Editor</i>	
MANCERA, J. M., P. FERNÁNDEZ-LLEBREZ y J. M. PÉREZ-FIGARES. — Efecto de la deshidratación sobre la CRH y la vasotocina en la eminencia media de la serpiente <i>Natrix maura</i> .....	151
CRÍTICA DE LIBROS .....	153