

# REVISTA ESPAÑOLA DE FISILOGIA

Volumen 31, 1975

## INDICE DE AUTORES

|                                                                                                                                                                                                    |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| AGUILAR, J. and M. ROSELL-PÉREZ. — Studies on Glycogen Metabolism in the Human Platelet. I Characteristics and Regulation of the Glycogen Synthetase . . . . .                                     | 151 |
| — — Studies on Glycogen Metabolism in the Human Platelet. II. Metabolite Levels and Enzymes of the Glycogen Cycle . . . . .                                                                        | 163 |
| ALEMÁN, P. — Ver. J. PEÑA.                                                                                                                                                                         |     |
| BALFAGÓN, G. — Ver. D. A. PASQUIER.                                                                                                                                                                |     |
| BARBER, A., R. JORDANA and F. PONZ. — Active Transport of Sugars by the Intestine of Snail ( <i>Cryptomphalus hortensis</i> Müller) . . . . .                                                      | 119 |
| — — — Effect of Anaerobiosis, Dinitrophenol and Fluoride on the Active Intestinal Transport of Galactose in Snail . . . . .                                                                        | 125 |
| — — — Sodium Dependence of Intestinal Active Transport of Sugars in Snail ( <i>Cryptomphalus hortensis</i> Müller) . . . . .                                                                       | 271 |
| BELMONTE, A. — Ver F. TATO.                                                                                                                                                                        |     |
| BOLUFER, J. and B. LASHERAS. — Inhibition of Intestinal Sugar Transport by Phenformin . . . . .                                                                                                    | 251 |
| — Ver M. <sup>a</sup> J. RUANO.                                                                                                                                                                    |     |
| BOLUFER, P., A. RODRÍGUEZ y J. M. MICÓ. — Variación de los 11-desoxi-17-cetosteroides a lo largo del ciclo menstrual normal . . . . .                                                              | 115 |
| BOZAL, J. — Ver R. FUSTÉ.                                                                                                                                                                          |     |
| — Ver V. LÓPEZ-SOLANAS.                                                                                                                                                                            |     |
| — Ver C. LLUÍS.                                                                                                                                                                                    |     |
| CABEZAS, J. A., y M. <sup>a</sup> C. LABRADOR. — Estudios comparativos sobre quince genotipos de <i>Drosophila melanogaster</i> Mg.: formas electroforéticas de algunas deshidrogenasas . . . . .  | 201 |
| CASTILLO-OLIVARES, J. L. — Ver M. GONZÁLEZ-EGUARAS.                                                                                                                                                |     |
| CASTRO, M. — Ver. E. GAY.                                                                                                                                                                          |     |
| CISCAR, F. — Ver J. GRAS.                                                                                                                                                                          |     |
| CORRAL SALETA, J. M. DE. — Ver A. MORÁN NESTARES.                                                                                                                                                  |     |
| CUSSÓ, R., A. DOMINGO and M. ROSELL-PÉREZ. — Studies on Glycogen Metabolism in Human Leukemic Cells. I. Glycogen Content, Glycogen Synthetase Forms and Their Metabolic Interconversions . . . . . | 309 |
| DÍAZ-RUBIO, P. — Ver. V. MORALES.                                                                                                                                                                  |     |
| DOMINGO, A. — Ver R. CUSSÓ.                                                                                                                                                                        |     |
| DOMÍNGUEZ, A. E. — Ver B. E. FERNÁNDEZ.                                                                                                                                                            |     |

|                                                                                                                                                                                                                  |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| DOMÍNGUEZ, M. C. and E. HERRERA. — Effect of Epinephrine on the Synthesis of Glyceride Glycerol in Adipose Tissue <i>in vitro</i> . . . . .                                                                      | 293 |
| ESTELLER, A., M. DE LA HIGUERA, M. <sup>a</sup> A. LÓPEZ, S. ZAMORA y A. MURILLO. — Capacidad concentradora de la vesícula biliar: Estudio comparado en algunas especies de vertebrados. . . . .                 | 91  |
| ESTIMA-MARTINS, A. M. — Studies on Bradycardia Mechanism in the Moderately Hypothermic Dog . . . . .                                                                                                             | 277 |
| EUGUI, J. — Ver N. LÓPEZ-MORATALLA.                                                                                                                                                                              |     |
| FERNÁNDEZ, B. E., N. A. VIDAL y A. E. DOMÍNGUEZ. — Acción de las hormonas sexuales sobre la noradrenalina endógena del sistema nervioso central . . . . .                                                        | 305 |
| FERNÁNDEZ G. DE CASTRO, M. — Ver C. J. MARTÍNEZ-HONDUVILLA.                                                                                                                                                      |     |
| FERRAGUT, J. — Ver J. L. IBORRA.                                                                                                                                                                                 |     |
| FIGUERA, D. — Ver M. GONZÁLEZ-EGUARAS.                                                                                                                                                                           |     |
| FRIGOLA, A. — Ver D. GUERRITORE.                                                                                                                                                                                 |     |
| FUSTÉ, R., y J. BOZAL. — Mecanismo reaccional de la purín nucleósido fosforilasa de hígado de ave. I. Constantes cinéticas reales y de disociación. . . . .                                                      | 235 |
| — — Mecanismo reaccional de la purín nucleósido fosforilasa de hígado de ave. II Inhibición por los productos de la reacción . . . . .                                                                           | 265 |
| GABIZÓN, A. — Ver F. GARRIDO.                                                                                                                                                                                    |     |
| GADALETA, M. <sup>a</sup> N. — Ver A. MONTALVO.                                                                                                                                                                  |     |
| GALINDO, J. D. — Ver J. A. LOZANO.                                                                                                                                                                               |     |
| GARCÍA DEL AMO, C. — Ver V. MORALES.                                                                                                                                                                             |     |
| GARCÍA-PUCHE, J. L. — Ver J. PEÑA.                                                                                                                                                                               |     |
| GARRIDO, F., A. GABIZÓN and C. OSORIO. — E-Rosettes in Human Lymphocytes. Enhancement and Depression after Incubation of Lymphocytes with Papain and Trypsin. . . . .                                            | 145 |
| — Ver J. PEÑA.                                                                                                                                                                                                   |     |
| GAY, E., M. CASTRO, E. GOÑALONS, F. VERICAT y A. TORRALBA. — Influencia de los antibióticos sobre algunas glicosidasas de la mucosa intestinal. . . . .                                                          | 183 |
| GIMÉNEZ-SOLVES, A. — Ver C. J. MARTÍNEZ-HONDUVILLA.                                                                                                                                                              |     |
| GOITI, J. J. — Ver M. GONZÁLEZ-EGUARAS.                                                                                                                                                                          |     |
| GÓMEZ-CAPILLA, J. A., J. M. MACARULLA, A. MARTÍN-ANDRÉS y C. OSORIO. — Evolución del glucógeno hepático durante el período embrionario y postnatal del pollo e influencia de la administración de ACTH . . . . . | 173 |
| — — — Evolución de los lípidos hepáticos durante el período embrionario y postnatal del <i>Gallus domesticus</i> . . . . .                                                                                       | 177 |
| GONZÁLEZ-BARÓN, S., J. JIMÉNEZ-VARGAS y J. MARCÓ. — Efecto de la p-clorofenilalanina sobre la reproducción en la rata . . . . .                                                                                  | 63  |
| — J. L. VELAYOS, J. MARCÓ y J. JIMÉNEZ-VARGAS. — Efecto de la 6-hidroxidopamina intracerebral sobre la ovulación en la rata . . . . .                                                                            | 53  |
| GONZÁLEZ-EGUARAS, M., C. ZAVANELLA, J. L. CASTILLO-OLIVARES, A. JUFFE, F. O'CONNOR, J. J. GOITI y D. FIGUERA. — Medidores electromagnéticos de flujo: Nuevo método de calibración. . . . .                       | 133 |
| GOÑALONS, E. — Ver E. GAY.                                                                                                                                                                                       |     |
| GRAS, J., N. TUSET, F. DE VEGA, F. CISCAR, J. NAVARRO and O. DEL VALLE. — Acute Renal Insufficiency in the Rabbit by Glycerol . . . . .                                                                          | 1   |
| GUBERT, S. — Ver C. LLUÍS.                                                                                                                                                                                       |     |

|                                                                                                                                                                                                            |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| GUERRITORE, D. — Ver A. MONTALVO.                                                                                                                                                                          |     |
| — A. FRIGOLA, E. PICCOLELLA and A. MONTALVO. — Convenient Procedures for Isolating the Mitochondrial Fraction Suitable for the Study of Mitochondrial Nucleic Acids from Normal and Neoplastic Cells . . . | 191 |
| GUINOVAR, J. J. y M. ROSELL-PÉREZ. — Estudio del método de la o-toluidina para la determinación de glucógeno . . .                                                                                         | 317 |
| HERRERA, E. — Ver M. C. DOMÍNGUEZ.                                                                                                                                                                         |     |
| HIGUERA, M. DE LA. — Ver A. ESTELLER.                                                                                                                                                                      |     |
| HUGHES, G. M., L. PALACIOS and J. PALOMEQUE. — A Comparison of Some Methods for Determining Oxygen Dissociation Curves of Fish Blood .                                                                     | 83  |
| IBORRA, J. L., A. MANJÓN y J. FERRAGUT. — La desnaturalización con clorhidrato de guanidina de algunas deshidrogenasas seguida por medidas de fluorescencia . . .                                          | 29  |
| JIMÉNEZ-VARGAS, J. — Ver S. GONZÁLEZ-BARÓN.                                                                                                                                                                |     |
| JORDANA, R. — Ver A. BARBER.                                                                                                                                                                               |     |
| JUFFE, A. — Ver M. GONZÁLEZ-EGUARAS.                                                                                                                                                                       |     |
| LABRADOR, M. <sup>a</sup> C. — Ver J. A. CABEZAS.                                                                                                                                                          |     |
| LARRALDE, J. — Ver M. <sup>a</sup> J. RUANO,                                                                                                                                                               |     |
| LASHERAS, B. — Ver J. BOLUFER.                                                                                                                                                                             |     |
| LISO-IRURZUN, P. y M. PÉREZ-MIRANDA. — Aislamiento de una subclase de haptoglobina sérica y su caracterización física e inmunológica . . .                                                                 | 207 |
| LÓPEZ, M. <sup>a</sup> A. — Ver A. ESTELLER.                                                                                                                                                               |     |
| LÓPEZ-MORATALLA, N., J. L. SEGOVIA, J. EUGUI and E. SANTIAGO. — Phospholipid Peroxidation and Release of Cytochromes from Inner Mitochondrial Membranes . . .                                              | 215 |
| LÓPEZ-NOVOA, J. M., J. L. RODICIO, I. MILLAS and L. HERNANDO-AVENDAÑO. — Glomerulo-Tubular Balance in Postischemic Renal Failure .                                                                         | 131 |
| LÓPEZ-PÉREZ, M. J. — Ver J. MONTOYA-VILLARROYA.                                                                                                                                                            |     |
| LÓPEZ-SOLANAS, V. y J. BOZAL. — El ácido úrico aceptor electrónico de la XDH de hígado de pollo . . .                                                                                                      | 255 |
| LOZANO, J. A., F. MONSERRAT, J. D. GALINDO and E. PEDREÑO. — Activatory Action of Trypsin on Epidermis Dopa-oxidase . . .                                                                                  | 21  |
| LLUCH, M. — Ver M. <sup>a</sup> J. RUANO.                                                                                                                                                                  |     |
| LLUÍS, C., S. GUBERT y J. BOZAL. — Lactatodeshidrogenasa de hígado de pollo. Cristalización y constantes características . . .                                                                             | 223 |
| MACARULLA, J. M. — Ver J. A. GÓMEZ-CAPILLA.                                                                                                                                                                |     |
| MANJÓN, A. — Ver J. L. IBORRA.                                                                                                                                                                             |     |
| MARCÓ, J. — Ver S. GONZÁLEZ-BARÓN.                                                                                                                                                                         |     |
| MARTÍN-ANDRÉS, A. — Ver J. A. GÓMEZ-CAPILLA.                                                                                                                                                               |     |
| MARTÍNEZ-GUARRO, M. — Ver J. A. F. TRESGUERRES.                                                                                                                                                            |     |
| MARTÍNEZ-HONDUVILLA, C. J., M. FERNÁNDEZ G. DE CASTRO and A. SANTOS-RUIZ. — Effects of Absciscic Acid and Other Plant Growth Substances on Seed Germination . . .                                          | 187 |
| — A. GIMÉNEZ-SOLVES and A. SANTOS-RUIZ. — Biochemical Changes in <i>Pinus pinea</i> Seeds. II. The Stimulation of Isocitrate Lyase and Malate Dehydrogenase Activities by Exogenous Growth Substances. . . | 15  |
| — and A. SANTOS-RUIZ. — Rapid Biochemical Test for Seed Germinability.                                                                                                                                     | 289 |
| — Ver M. J. MARTÍNEZ-HONDUVILLA.                                                                                                                                                                           |     |

|                                                                                                                                                                                                            |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| MARTÍNEZ-HONDUVILLA, M. J. and C. J. MARTÍNEZ-HONDUVILLA — Pine Seed Ribonucleases. I. Preparation and Properties . . . . .                                                                                | 283 |
| MATAIX, F. J. y M. RUIZ-AMIL. — Purificación y propiedades de la ornitina transcarbamilasa de hígado de cobaya . . . . .                                                                                   | 41  |
| MICÓ, J. M. — Ver P. BOLUFER.                                                                                                                                                                              |     |
| MILLAS, I. — Ver J. M. LÓPEZ-NOVOA.                                                                                                                                                                        |     |
| MONSERRAT, F. — Ver J. A. LOZANO.                                                                                                                                                                          |     |
| MONTALVO, A., D. GUERRITORE and M. <sup>a</sup> N. GADALETA. — RNA Synthesis by Isolated Yoshida Ascites Hepatoma A.H. 130 Cells Mitochondria .                                                            | 109 |
| — G. PEPE and D. GUERRITORE. — Isolation Procedures and Partial Characterization of Mitochondrial Ribosomes from Yoshida Ascites Hepatoma A.H. 130 Cells . . . . .                                         | 197 |
| — Ver D. GUERRITORE.                                                                                                                                                                                       |     |
| MONTAÑA-VILLARROYA, J. and M. J. LÓPEZ-PÉREZ. — Isocitrate Lyase Activities in <i>Pinus pinea</i> Seeds . . . . .                                                                                          | 95  |
| MORALES, V., P. DÍAZ-RUBIO, C. GARCÍA DEL AMO and A. SANTOS-RUIZ. Metabolic Studies with <sup>65</sup> Zn. X. Biosynthesis of Alkaline Phosphatase in Cultures of <i>Pseudomonas fluorescens</i> . . . . . | 9   |
| MORÁN NESTARES, A. y J. M. DE CORRAL SALETA. — Influencia del hipotálamo posterior en la secreción gástrica . . . . .                                                                                      | 75  |
| MURILLO, A. — Ver A. ESTELLER.                                                                                                                                                                             |     |
| NAVARRO, J. — Ver J. GRAS.                                                                                                                                                                                 |     |
| O'CONNOR, F. — Ver M. GONZÁLEZ-EGUARAS.                                                                                                                                                                    |     |
| ORIOI-BOSCH, A. — Ver J. A. F. TRESGUERRES.                                                                                                                                                                |     |
| OSORIO, C. — Ver F. GARRIDO.                                                                                                                                                                               |     |
| — Ver J. A. GÓMEZ-CAPILLA.                                                                                                                                                                                 |     |
| — Ver J. PEÑA.                                                                                                                                                                                             |     |
| PALACIOS, L. — Ver G. M. HUGHES.                                                                                                                                                                           |     |
| PALOMEQUE, J. — Ver G. M. HUGHES.                                                                                                                                                                          |     |
| PASQUIER, D. A. and G. BALFAGON. — Regional Distribution of 5-Hydroxytryptamine in Cat Brain. . . . .                                                                                                      | 299 |
| PEDREÑO, E. — Ver J. A. LOZANO.                                                                                                                                                                            |     |
| PEÑA, J., F. GARRIDO, P. ALEMÁN, J. L. GARCÍA-PUCHE and C. OSORIO. — Behaviour of Lymphocytes from Cancer Patients and Normal Individuals Cultured with Phytohaemagglutinin. . . . .                       | 37  |
| PEPE, G. — Ver A. MONTALVO.                                                                                                                                                                                |     |
| PÉREZ-MIRANDA, M. — Ver P. LISO-IRURZUN.                                                                                                                                                                   |     |
| PICCOLELLA, E. — Ver D. GUERRITORE.                                                                                                                                                                        |     |
| PONZ, F. — Ver A. BARBER.                                                                                                                                                                                  |     |
| RODICIO, J. L. — Ver J. M. LÓPEZ-NOVOA.                                                                                                                                                                    |     |
| RODRÍGUEZ, A. — Ver P. BOLUFER.                                                                                                                                                                            |     |
| ROSELL-PÉREZ, M. — Ver J. AGUILAR.                                                                                                                                                                         |     |
| — Ver R. CUSSÓ.                                                                                                                                                                                            |     |
| — Ver J. J. GUINOVART.                                                                                                                                                                                     |     |
| RUANO, J. M. <sup>a</sup> , J. BOLUFER, J. LARRALDE y M. LLUCH. — Influencia de algunas cumarinas sobre la absorción intestinal de galactosa <i>in vivo</i> . .                                            | 105 |
| RUIZ-AMIL, M. — Ver F. J. MATAIX.                                                                                                                                                                          |     |
| SANTIAGO, E. — Ver N. LÓPEZ-MORATALLA.                                                                                                                                                                     |     |

|                                                                           |    |
|---------------------------------------------------------------------------|----|
| SANTOS-RUIZ, A. — Ver C. J. MARTÍNEZ-HONDUVILLA.                          |    |
| — Ver V. MORALES.                                                         |    |
| SEGOVIA, J. L. — Ver N. LÓPEZ-MORATALLA.                                  |    |
| TATO, F. y A. BELMONTE. — Estudio de la acción de la amitriptilina y nor- |    |
| triptilina sobre la presión intraocular y dinámica del humor acuoso en    |    |
| el conejo . . . . .                                                       | 47 |
| TEJERO, A. — Ver J. A. F. TRESGUERRES.                                    |    |
| TORRALBA, A. — Ver E. GAY.                                                |    |
| TRESGUERRES, J. A. F., M. MARTÍNEZ-GUARRO, A. TEJERO y A. ORIOL-          |    |
| BOSCH. — Determinación por radioinmunoanálisis de la hormona lutei-       |    |
| nizante en plasma humano. . . . .                                         | 99 |
| TUSET, N. — Ver J. GRAS.                                                  |    |
| VALLE, O. DEL. — Ver J. GRAS.                                             |    |
| VELAYOS, J. L. — Ver S. GONZALEZ-BARÓN.                                   |    |
| VERICAT, F. — Ver E. GAY.                                                 |    |
| VIDAL, N. A. — Ver B. E. FERNÁNDEZ.                                       |    |
| ZAMORA, S. — Ver A. ESTELLER.                                             |    |
| ZAVANELLA, C. — Ver M. GONZÁLEZ EGUARAS.                                  |    |

# REVISTA ESPAÑOLA DE FISIOLÓGIA

Volume 31, 1975

## CONTENTS

### Num. 1

|                                                                                                                                                                                                                                                  |    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| GRAS, J., N. TUSET, F. DE VEGA, F. CISCAR, J. NAVARRO and O. DEL VALLE.<br>Acute Renal Insufficiency in the Rabbit by Glycerol . . . . .                                                                                                         | 1  |
| MORALES, V., P. DÍAZ-RUBIO, C. GARCÍA DEL AMO and A. SANTOS-RUIZ.<br>Metabolic Studies with <sup>65</sup> Zn. X. Biosynthesis of Alkaline Phosphatase<br>in Cultures of <i>Pseudomonas fluorescens</i> . . . . .                                 | 9  |
| MARTÍNEZ-HONDUVILLA, C. J., A. GIMÉNEZ-SOLVES and A. SANTOS-RUIZ.<br>Biochemical Changes in <i>Pinus pinea</i> Seeds. II. The Stimulation of Isocitrate<br>Lyase and Malate Dehydrogenase Activities by Exogenous Growth<br>Substances . . . . . | 15 |
| LOZANO, J. A., F. MONSERRAT, J. D. GALINDO and E. PEDREÑO, — Activatory<br>Action of Trypsin on Epidermis Dopa-oxidase . . . . .                                                                                                                 | 21 |
| IBORRA, J. L., A. MANJÓN and J. FERRAGUT. — Dehydrogenase Denaturation<br>by Guanidine Hydrochloride Measured by Fluorescens. . . . .                                                                                                            | 29 |
| PEÑA, J., F. GARRIDO, P. ALEMÁN, J. L. GARCÍA-PUCHE and C. OSORIO. —<br>Behaviour of Lymphocytes from Cancer Patients and Normal Individuals<br>Cultured with Phytohaemagglutinin. . . . .                                                       | 37 |
| MATAIX, F. J. and M. RUIZ-AMIL. — Purification and Properties of Ornithine<br>Transcarbamylase in Guinea Pig Liver. . . . .                                                                                                                      | 41 |
| TATO, F. and A. BELMONTE. — Effect of Amitriptyline and Nortriptyline<br>on the Intraocular Pressure and Aqueous Humor Dynamics in Rabbits. . . . .                                                                                              | 47 |
| GONZÁLEZ-BARÓN, S., J. L. VELAYOS, J. MARCÓ and J. JIMÉNEZ-VARGAS. —<br>Effect of 6-Hydroxydopamine Intracerebrally Injected on Reproduction<br>in Rats. . . . .                                                                                 | 53 |
| GONZÁLEZ-BARÓN, S., J. JIMÉNEZ-VARGAS and J. MARCÓ. — Effect of<br>p-Chlorophenylalanine on the Reproduction of the Rat. . . . .                                                                                                                 | 63 |
| BOOKS REVIEWS. . . . .                                                                                                                                                                                                                           | 69 |

### Num. 2

|                                                                                                                                                   |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------|----|
| MORÁN NESTARES, A. and J. M. DE CORRAL SALETA — Posterior Hypothalamus<br>Action on Gastric Secretion . . . . .                                   | 75 |
| HUGHES, G. M., L. PALACIOS and J. PALOMEQUE. — A Comparison of Some<br>Methods for Determining Oxygen Dissociation Curves of Fish Blood . . . . . | 83 |

|                                                                                                                                                                                           |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| ESTELLER, A., M. DE LA HIGUERA, M. <sup>a</sup> A. LÓPEZ, S. ZAMORA and A. MURILLO. — Concentration Ability of the Gallbladder: A. Comparative Study in Some Vertebrate Species . . . . . | 91  |
| MONTOYA-VILLARROYA, J. and M. J. LÓPEZ-PÉREZ. — Isocitrate Lyase Activities in <i>Pinus pinea</i> Seeds . . . . .                                                                         | 95  |
| TRESGUERRES, J. A. F., M. MARTÍNEZ-GUARRO, A. TEJERO and A. ORIOL-BOSCH. — Radioimmunologic Method for the Measurement of Plasmatic LH in Humans . . . . .                                | 99  |
| RUANO, M. <sup>a</sup> J., J. BOLUFER, J. LARRALDE and M. LLUCH. — Effect of Various Coumarins on the Intestinal Absorption of Galactose <i>in vivo</i> . . . . .                         | 105 |
| MONTALVO, A., D. GUERRITORE and M. <sup>a</sup> N. GADALETA. — RNA Synthesis by Isolated Yoshida Ascites Hepatoma A.H. 130 Cells Mitochondria . . . . .                                   | 109 |
| BOLUFER, P., A. RODRÍGUEZ and J. M. MICÓ. — Urinary Excretion of 11-deoxy-17-ketosteroids During the Normal Menstrual Cycle . . . . .                                                     | 115 |
| BARBER, A., R. JORDANA and F. PONZ. — Active Transport of Sugars by the Intestine of Snail ( <i>Cryptomphalus hortensis</i> Müller) . . . . .                                             | 119 |
| BARBER, A., R. JORDANA and F. PONZ. — Effect of Anaerobiosis, Dinitrophenol and Fluoride on the Active Intestinal Transport of Galactose in Snail. . . . .                                | 125 |
| <i>Letters to the Editors</i>                                                                                                                                                             |     |
| LÓPEZ-NOVOA, J. M., J. L. RODICIO, I. MILLAS and L. HERNANDO-AVENDAÑO. — Glomerulo-Tubular Balance in Postischemic Renal Failure . . . . .                                                | 131 |
| GONZÁLEZ-EGUARAS, M., C. ZAVANELLA, J. L. CASTILLO-OLIVARES, A. JUFFE, F. O'CONNOR, J. J. GOITI and D. FIGUERA. — Electromagnetic Flux Ganges: New Method of Calibration . . . . .        | 133 |
| BOOK REVIEWS. . . . .                                                                                                                                                                     | 135 |

### Num. 3

|                                                                                                                                                                                                  |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| GARRIDO, F., A. GABIZÓN and C. OSORIO. — E-Rosettes in Human Lymphocytes. Enhancement and Depression after Incubation of Lymphocytes with Papain and Trypsin. . . . .                            | 145 |
| AGUILAR, J. and M. ROSELL-PÉREZ. — Studies on Glycogen Metabolism in the Human Platelet. I Characteristics and Regulation of the Glycogen Synthetase . . . . .                                   | 151 |
| AGUILAR, J. and M. ROSELL-PÉREZ. — Studies on Glycogen Metabolism in the Human Platelet. II Metabolite Levels and Enzymes of the Glycogen Cycle . . . . .                                        | 163 |
| GÓMEZ-CAPILLA, J. A., J. M. MACARULLA, A. MARTÍN-ANDRÉS and C. OSORIO. — Evolution of the Liver Glycogen During the Embryonic and Postnatal Period of the Chick Embryo. Action of ACTH . . . . . | 173 |
| GÓMEZ-CAPILLA, J. A., J. M. MACARULLA, A. MARTÍN-ANDRÉS and C. OSORIO. — Evolution of the Liver Lipids, During the Embryonic and Postnatal Periods of <i>Gallus domesticus</i> . . . . .         | 177 |
| GAY, E., M. CASTRO, E. GOÑALONS, F. VERICAT and A. TORRALBA. — Influence of Some Antibiotics on the Intestinal Glycosidases of the rat . . . . .                                                 | 183 |

|                                                                                                                                                                                                                              |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| MARTÍNEZ-HONDUVILLA, C. J., M. FERNÁNDEZ G. DE CASTRO and A. SANTOS-RUIZ. — Effects of Absciscic Acid and Other Plant Growth Substances on Seed Germination . . . . .                                                        | 187 |
| GUERRITORE, D., A. FRIGOLA, E. PICCOLELLA and A. MONTALVO. — Convenient Procedures for Isolating the Mitochondrial Fraction Suitable for the Study of Mitochondrial Nucleic Acids from Normal and Neoplastic Cells . . . . . | 191 |
| MONTALVO, A., G. PEPE and D. GUERRITORE. — Isolation Procedures and Partial Characterization of Mitochondrial Ribosomes from Yoshida Ascites Hepatoma A.H.130 Cells . . . . .                                                | 197 |
| CABEZAS, J. A., and M. <sup>a</sup> C. LABRADOR. — Comparative Studies of <i>Drosophila melanogaster</i> Mg.: Electrophoretic Forms of Some Dehydrogenases. . . . .                                                          | 201 |
| LISO-IRURZUN, P., and M. PÉREZ-MIRANDA. — Method to Isolate a Sericeous Haptoglobin Subclass and to Determine its Physical and Immunological Traits . . . . .                                                                | 207 |
| LÓPEZ-MORATALLA, N., J. L. SEGOVIA, J. EUGUI and E. SANTIAGO. — Phospholipid Peroxidation and Release of Cytochromes from Inner Mitochondrial Membranes . . . . .                                                            | 215 |
| LLUÍS, C., S. GUBERT and J. BOZAL. — Crystallized Chicken Liver Lactate dehydrogenase. . . . .                                                                                                                               | 223 |
| FUSTÉ, R., and J. BOZAL. — The Mechanism of the Reaction Catalysed by Purine Nucleoside Phosphorylase. I. Kinetics and Dissociation Constants. . . . .                                                                       | 235 |
| BOOK REVIEWS. . . . .                                                                                                                                                                                                        | 245 |

#### Num. 4

|                                                                                                                                                             |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| BOLUFER, J. and B. LASHERAS. — Inhibition of Intestinal Sugar Transport by Phenformin . . . . .                                                             | 251 |
| LÓPEZ-SOLANAS, V. and J. BOZAL. — Uric Acid as Electronic Acceptor of Chicken Liver's XDH .. . . .                                                          | 255 |
| FUSTÉ, R. and J. BOZAL. — Purine Nucleoside Phosphorylase Catalytic Reaction Mechanism. II. Product Reaction Inhibition . . . . .                           | 265 |
| BARBER, A., R. JORDANA and F. PONZ. — Sodium Dependence of Intestinal Active Transport of Sugars in Snail ( <i>Cryptomphalus hortensis</i> Müller). . . . . | 271 |
| ESTIMA-MARTINS, A. M. — Studies on Bradycardia Mechanism in the Moderately Hypothermic Dog . . . . .                                                        | 277 |
| MARTÍNEZ-HONDUVILLA, M. J. and C. J. MARTÍNEZ-HONDUVILLA. — Pine Seed Ribonucleases. I. Preparation and Properties . . . . .                                | 283 |
| MARTÍNEZ-HONDUVILLA, C. J. and A. SANTOS-RUIZ. — Rapid Biochemical Test for Seed Germinability. . . . .                                                     | 289 |
| DOMÍNGUEZ, M. C. and E. HERRERA. — Effect of Epinephrine on the Synthesis of Glyceride Glycerol in Adipose Tissue <i>in vitro</i> . . . . .                 | 293 |
| PASQUIER, D. A. and G. BALFAGON. — Regional Distribution of 5-Hydroxytryptamine in Cat Brain . . . . .                                                      | 299 |
| FERNÁNDEZ, B. E., N. A. VIDAL and A. E. DOMÍNGUEZ. — Action of the Sexual Hormones on the Endogenous Norepinephrine of the Central Nervous System. . . . .  | 305 |

|                                                                                                                                                                                                  |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| CUSSÓ, R., A. DOMINGO and M. ROSELL-PÉREZ. — Studies on Glycogen Metabolism in Human Leukemic Cells. I. Glycogen Content, Glycogen Synthetase Forms and Their Metabolic Interconversion. . . . . | 309 |
| GUINOVART, J. J. and M. ROSELL-PÉREZ. — A Study of the o-Toluidine Method For Glycogen Measurement . . . . .                                                                                     | 317 |
| BOOK REVIEWS. . . . .                                                                                                                                                                            | 323 |