

1 Q. B.
1983

UNIVERSIDAD DE BUENOS AIRES
FACULTAD DE CIENCIAS EXACTAS Y NATURALES

DEPARTAMENTO: Química Biológica

ASIGNATURA: Curso de Seminarios sobre porfirinas y porfirias

CARRERA: Lic. en Química, Cs. Biológicas, Medicina y Bioquímica

CARÁCTER: Post- Grado

DURACIÓN: anual

HORAS DE CLASE: 40 hs

RESPONSABLE: Dra. Alcira M. del C. Batlle

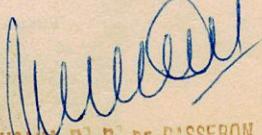
PROGRAMA

Succinil-CoA Sintetasa. DOVA- Transaminasa. Rodenasa. Cistationasa.

ALA- Dehidrasa. Metales y la biosíntesis del hemo. PB Gasa. CP Gasa. Descarboxilasas. Protegen oxidasa. Metal quelatasa. Hemo oxigenasa. Metodología para determinación de porfirinas y precursores. Cromatografía líquida de alta presión.

Biosíntesis del hemo en bacterias, levaduras, vegetales y animales. Enzimopatías en el metabolismo del hemo. Bioquímica de parásitos y su relación con el metabolismo del hemo.

Trypanosoma cruzi. Porfirias Cutáneas y Agudas. Porfirias Eritropoyéticas. Porfiria Experimental. Terapia enzimática. Liposomas e intoxicación con plomo. Acción de fantasma de eritrocitos cargados sobre distintas porfirias. Biosíntesis de corrinas. Vit. B₁₂. Biosíntesis de clorofilas y bacterioclorofilas. Biodegradación de hemos y clorofilas. Polipirroles de cadena abierta. Pigmentos biliares. Ficobilinas y Ficocianinas. Regulación de la biosíntesis de hemos y clorofilas.


DRA. M. SUSANA D. B. DE PASSERON
DIRECTORA
Dpto. QUÍMICA BIOLÓGICA

aprobado por Resolución 041093/83


MRS. ALCIRA BATILLE de ALBERTONI
Profesora Titular Q. Biológica

BIBLIOGRAFIA

CORRESPONDIENTE AL CURSO DE SEMINARIOS SOBRE PORFIRINAS Y PORFIRIAS

Aductos de oxígeno(Recopilación)

Porfirias cutáneas (Recopilación)

Simultaneous determination of hydroximethylbilane synthase and uroporphyrinogen III synthase in erythrocytes by high- performance liquid chromatography, Wright & Lim. Biochem. J. (1983) 211, 001 al 004

High- Performance Liquid Chromatographic Analysis of Porphyrins and their isomers with Radial Compression Columns. Seubert & Seubert. Analytical Biochem. Vol 124 N° 2 (1982) 303- 307

Role of Calcium in Trypanocidal drug action. Clarkson & Amole. Reprint Series 216 (1982) 1321- 1323

- Aminolevulinic Acid Formation from Dioxovaleric acid in extracts of Euglena gracilis. Foley & Beale. Plant Physiol. 70 (1982), 1945- 1502

Changes in haem synthesis associated with occupational exposure to organic and inorganic sulphides. Tenhunen, Savelainen & Jappinen. Clinical Sciences 64 (1983), 187- 191

Immunoreactive uroporphyrinogen Decarboxylase is unchanged in Porphyria caused by TCDD and Hexachlorobenzene. Elder & Sheppard. BBRC 109 (1982) 113

Increase in the Amoun of Erythrocyte - Aminolevulinic Acid Dehydratase in Workers with Moderate Lead Exposure- Fujita, Sato& Sano. Int. Arch. Occup. Environ Health (1982) 50, 287- 297

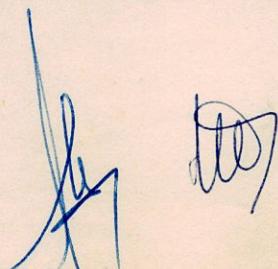
Topical Problems in the Biosynthesis of Red Blood Pigment. Burchard Franzk. Angew Chem. Int. Ed. Engl. 21 (1982) 343- 353

Porfirinas en piel (Recopilación)

Porphyrin- Induced photodamage as related to the subcellular localization of the porphyrins Sandberg, Romslo, Hovding& Borndal. Acta Dermatovener Suppl. 100(1982) 75- 80

Is Rhodanese important in the detoxification of dietary cyanide in southern armyworm (Spodoptera Eridania cramer) larvae? Long & Brattsten Insect Biochem. 12 (1982) 367- 375

Porphyrin inhibition of glycoxalase I. Douglas, Nadvi & Ghotb- Sharif IRCS Medical Science 10 (1982) 861- 862.


Aprobado por Resolución 42 EA 1093/83

Towards a new galenic dosage form the liposomes
Pulieus & Benita. Biomedicine 36 (1982) 4-13

Studies on the Toxicology of Hexachlorobenzene. Koss, Subert, Seubert, Seidel
Koransky & Ippen Arch. Toxicol. 52 (1983) 13-22.

Assat, Properties, and Regulation of Rat Ovarian
aminolevulinic acid Synthetase Activity. Cook, Tse & Piper. Arch. Biochem.
& Biophys. 216 (1982). 593-599.

An in vitro model demonstrating the glucose effect and the influence of fasting
on porphyrin metabolism Schoenfeld, Greenblat, Epstein, Lahav, Beigel & Atsmon.
FEBS letters 138 (1982) 277- 279.

The substituted pyridines emtyrapone and nicotinamide are inducers of 5-Amino-
levulinate synthase and cytochrome P- 450 in hepatocyte culture. Giger & Meyer.
Biochem. Pharmac. 31.(1982) 1735- 1741

Bovine Protoporphyrinia: Documentation of autosomal recessive inheritance and
Comparison with the human disease through Measurement of Heme Synthase activity
Bloomer, Morton, Reuter & Ruth. Am. J. Hum. Genet. 34 (1982) 322-330.

A new assay for protoporphyrinogen oxidase- Evidence for a total deficiency in
that activity in a Heme- Less mutant of Saccharomyces Cerevisiae. Camadro, Urban
Grimal & Labbe, Biochem. and Biophys. res. comm. 106 (1982) 724-730.

Enhancement and inhibition of Enzymes of Heme Metabolism by Diethyl Maleate in
the rat Kidney. Maines. Arch. Biochem.& Biophys. 216 (1982) 17- 26.

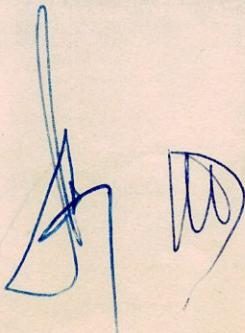
Determination of coproporphyrin I and III isomers by high- performance liquid
chromatography. Udagawa & Hayashi. J. of Chr. 233 (1982) 338- 342

High- Performance liquid chromatographic differentiation of urinary free porphyrins
Gaetani, Laureri & Vitto. J. Of Chr 231 (1982) 425- 432.

Development and utilization of a procedure for measuring urinary porphyrins by
high- Performance Liquid Chromatography. Hill, Bailey & Needham J. of Chr 232
(1982) 251- 260.

Analysis of Porphyrin Carboxylic Acids in Biological fluids by High- Performance
Liquid Chromatography. Chiba & Sassa. Analit. Biochem. 124 (1982) 279-285.

Some aspects of porphyrins neutotoxicity in vitro. Riopelle & Kennedy. Can J.
Physiol. Pharm. 60 (1982) 707.


Aprobado por Resolución CA 1093 / 83

Effects of ALA and PBG and structurally related amino acids on 2- deoxyglucose uptake in cultured neurons. Russell, Lamm & Taljaard. Neurochemical Res. 7 (1982) 1009.

Neurotoxic aspects of Porphyrinopathies. Silbergeld, Hruska & Bradley. Environmental Res. 29(1982) 459.

Experimental Porphyric Neuropathy Sema, Kennedy, Blakeslee & Robertson. J. Canad Sci. Neurolog. 8 (1981) 105.

Studies on Cerebellar Kaem Metabolism in the rat in vivo. De Matteis & Ray. J. Neurochem. 39 N° 2 (1982) 551- 556.

Porphyrias and the Kidney. Day, Eales & Disler Nephron 28 (1981) 261- 267.

Liposomes in topical drug delivery. Schaeffer & Krohn. Inv. Ophthalmology & Visual Sci. 22 (1982) 220.227.



DRA. M. SUSANA D. B. DE PASSEHON
DIRECTORA
DIB. QUIMICA BIOLOGICA

Aprobado por Resolución 041093/83