

Apreciados amigos

Es un placer para mí, una vez más, poder coordinar la **V reunión científica Post-SSIEM 2018**, que se celebrará en Madrid el próximo día 26 de Octubre y que nos ofrece la oportunidad de, como en años anteriores, poder resumir el congreso SSIEM que tuvo lugar en Atenas, a todos aquellos profesionales interesados o que no pudieron asistir.

Los resúmenes que se os presentarán están divididos por los diversos errores congénitos del Metabolismo, dando a cada profesional una o varias vías metabólicas de las cuales considero que son expertos.

Cada uno de los ponentes va a exponer lo que ha considerado más novedoso y significativo de las diferentes charlas que tuvieron lugar durante el congreso, tanto Sesiones Plenarias, como Paralelas o Simposios.

Estoy segura de que también este año será todo un éxito y de gran interés y provecho para cada uno de nosotros.



Nos vemos en Madrid!!

Un saludo,

M. Pineda

Dra. Mercedes Pineda Marfa (Col. 6125)
Neuropediatra del Hospital Sant Joan de Déu de Barcelona



26/10/18

Lugar_ COAM Colegio Oficial de Arquitectos de Madrid
Hortaleza, 63 | 28004 Madrid "Salón de Actos de Planta Jardín"

AVALADO POR:





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AGENDA 26/10/18

9:00	RECOGIDA DE DOCUMENTACIÓN
9:30	PRESENTACIÓN Dr. David Gil ► Presidente AECOM Dra. Mercé Pineda ► Coordinadora Post-SSEIM
9:40	SESIÓN I ► Dr. C. Colón ► Hospital Clínico Universitario de Santiago de Compostela ERNDIM Meeting ERNDIM Workshop <ul style="list-style-type: none">Chair's update.Common DPT sample.Laboratory diagnostic aspects of the new defects in purine and pyrimidine metabolism.Clinical aspects of the new defects in purine and pyrimidine metabolism. Educational Session: Diagnostic Challenges in the "OMICS" Era Plenary Session 4: Next-Generation Diagnostic <ul style="list-style-type: none">C13 Dynamic Studies in Fibroblasts.Transcriptomics in Rare Disease Diagnostic.Discovering New Pathways and Diseases. The Role of Metabolism. Simposio Alynlam: RNA Interference: Harnessing Technology with the Potencial to Advance the Management of Rare Diseases <ul style="list-style-type: none">Overview of RNAi therapeutics.Clinical Presentation of AHP – A Case based approach.Clinical Presentation of Primary Hyperoxaluria – A Case based approach.
09:55	SESIÓN II ► Dra. M. del Toro ► Hospital Vall d'Hebron (Barcelona) Plenary Session 1: Biochemical Defects as Developmental Disorders <ul style="list-style-type: none">Biochemical Defects Leading to Abnormal CNS Development.Bone Development and Remodeling in Metabolic Disorders.Lessons from Pluripotent Stem Cell Models. Plenary Session 2: Inborn Error of Metabolism and the Immune System <ul style="list-style-type: none">Glycosylation and Human Immune System Function.The Immune System in Inborn Errors of Metabolism.Inborn Errors of Metabolism and Cancer: The Case of Gaucher Disease. Parallel Session 1B: New Treatments <ul style="list-style-type: none">Safety and efficacy of KH176 in adult patients with mitochondrial disease due to the m.3243A>G mutation (KHENERGY).Fragment-based drug discovery for inborn errors of metabolism: Primary hyperoxaluria I as exemplar target.Organoids to evaluate novel treatment strategies for intrahepatic cholestatic disease.An observational study of patients with cerebral adrenoleukodystrophy (CALD) treated with allogeneic hematopoietic stem cell transplant.Lenti-D hematopoietic stem cell gene therapy for cerebral adrenoleukodystrophy: safety and efficacy outcomes from an ongoing Ph 2/3 trial.Long-term safety and efficacy of combined therapy of high-dose amroxol and imiglucerase in neuronopathic Gaucher disease. Simposio BioMarin: Reshaping the Odyssey of MPS IVA and VI <ul style="list-style-type: none">Facilitating the journey of MPS IVA with early diagnosis and treatment.MPS IVA – My personal Odyssey.How long-term treatment reshapes the Odyssey of MPS VI.
10:10	SESIÓN III ► Dra. M. O'Callaghan ► Hospital Sant Joan de Deu (Barcelona) Simposio BioMarin: Genetics: Your Role in Completing the Diagnostic Puzzle in CLN2 Disease <ul style="list-style-type: none">The picture on the puzzle: Natural history of CLN2.Solving the mystery puzzle earlier with genetic testing.Connecting the dots for early diagnosis and benefits of early intervention. Parallel Session 3A: Mitochondrial Disorders <ul style="list-style-type: none">Update Lecture: What is New in Mitochondrial Disorders.Elucidating the complexity of mitochondrial membrane lipids in Barth Syndrome.Mutations in QRSL1, GATB, and GATC encoding glutamyl-tRNA_{Gln} amidotransferase subunits cause a lethal mitochondrial cardiomyopathy.Genetic defects causing complex movement disorders and basal ganglia degeneration in childhood.A novel complex neurological phenotype due to homozygous mutation in FDX2. Simposio Actelion: 10 years of progress and innovation in Niemann-Pick disease Type C: from new insights in pathophysiology to effective therapy <ul style="list-style-type: none">Current and evolving hypotheses of the pathogenesis and underlying mechanisms of NP-C.Diagnostic workup for NP-C in 2018: how do recent advances impact your clinical practice?.Spotlight on miglustat: findings from the first 10 years of effective treatment for NP-C.
10:25	SESIÓN IV ► Dra. M. Morales ► Hospital 12 de Octubre (Madrid) Adult Group Session: Expanded newborn screening (eNBS), what does it mean for adult metabolic medicine? <ul style="list-style-type: none">The moving targets of expanded newborn screening for inborn errors of metabolism.Expanded NBS for X-ALD and implications for adult AMN Patients.Ethical considerations regarding presymptomatic testing in adults from expanded in neonates. Adult Group Session: Oral Presentations Parallel Session 4C: Metabolic Disorders in Adults <ul style="list-style-type: none">Changes in cornstarch dosing in adults with glycogen storage disease type Ia.Retrospective observational study on 53 adult patients with suspected metabolic myopathy.Does a period of restricted phenylalanine intake influence the decision to be on PKU diet? An audit on maternal phenylketonuria experience.Adult patients with hereditary fructose intolerance are characterized by an increased intrahepatic triglyceride content.Late-onset diagnosis of urea cycle disorders: results from an adult French cohort of 49 patients.Treatment with chenodeoxycholic acid in cerebrotendinous xanthomatosis: clinical, neurophysiological and brain structural outcomes.
10:40	SESIÓN V ► Dr. M. Bueno ► Hospital Virgen del Rocío (Sevilla) Dietician group / Nutrition & Dietetic Session <ul style="list-style-type: none">Challenges of protein requirements - Differences between general and guideline IMD.Acute nutritional ketosis and exercise in GSD IIIa.Recent advances in the nutritional management of infant onset LAL-D.

	Dietician group / Nutrition & Dietetic Session <ul style="list-style-type: none">The use of Modified Mediterranean Diet in the therapeutic approach of Aminoacidopathies and Glut I deficiency.GMP - The unfolding story in children with PKU.GA1 management after 6 years of age. Simposio BioMarin: PKU: Inside the Trojan Horse <ul style="list-style-type: none">PKU, The Trojan Horse, discovering the surprises within.Unwanted guests in adult PKU: Comorbidities.Mild hyperphenylalaninemia: Surprising effects.Screening for BH4 response: A good start is half the battle.
10:55	SESIÓN VI ► Dr. L. Aldámiz ► Hospital de Cruces (Bilbao) Parallel Session 2C: Novel Diagnostic Approches <ul style="list-style-type: none">Contribution of functional studies to validate disease-causing variants identified by NGS in patients with inborn errors of metabolism.Large-scale, untargeted metabolomic profiling identifies novel biomarkers and clarifies DNA variants of uncertain significance.Signature oligosaccharides change the way we diagnose and monitor the mucopolysaccharidoses.Cross-omics: merging whole exome sequencing with untargeted metabolomics.Integrated UPLC-HR-MS and NMR detection of inborn errors of metabolism in urine.A technological upgrade for newborn mass urine screening in the Province of Quebec: from TLC to MS/MS. Simposio Shire: Lysosomal storage disorders: from genes to biomarkers and clinical outcomes <ul style="list-style-type: none">Gaucher disease, Fabry disease and mucopolysaccharidosis type II (MPS II): from genotype to phenotype.Biomarkers as predictors of clinical outcome in Gaucher disease, Fabry disease and MPS II.Impact of long-term enzyme replacement therapy (ERT): Gaucher-related bone disease.Impact of long-term ERT: outcomes in Fabry disease and MPS II. Simposio Sanofi Genzyme: Substrate Reduction Therapy in Gaucher disease: from clinical development to real-world experience and treatment monitoring <ul style="list-style-type: none">Gaucher disease treatment options and SRT development.Real-world experience and long-term eliglustat outcomes.Old and new biomarkers in Gaucher disease; Lyso-GL-1 in the clinic.

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11:45	SESIÓN VII ► Dra. A. Belanger ► Hospital Ramón y Cajal (Madrid) Simposio Nutricia: Nutrition in PKU <ul style="list-style-type: none">Effects of inadequate amino acid mixture intake on nutrient supply of adult patients with PKU.Role of personalised nutritional management in PKU patients - BH4 users.Role of personalised nutritional management in PKU patients - off diet adult PKU patients. Parallel Session 1C: Phenylketonuria and Neurotransmitter Disorders <ul style="list-style-type: none">Clinical characterization of tremor in patients with Phenylketonuria.Does early treatment of PKU patients with sapropterin dihydrochloride affect brain development?.Cerebral creatine deficiency and lower weight gain in a new KI rat model of creatine transporter deficiency.AGL-AADC gene therapy in children with AADC deficiency increases dopamine production and sustains motor milestones.Neurotransmitter trafficking defect in a patient with the clathrin (CLTC) alteration presenting with hyperphenylalaninemia and Parkinsonism.Proteomic study on neurotransmitter defects find several biomarkers pointing towards neurodevelopment dysregulation. Simposio APR: Physiological absorption of amino acids: rationale and expected benefits <ul style="list-style-type: none">The physiological utilization of amino acids in PKU.The Physiomic technology and impact on prolonged release and taste masking of amino acids.Absorption kinetics of amino acids in humans: the basis for a new option for PKU management.Panel discussion: expectations for PKU patients. Parallel Session 3B: Disorders of Fatty Acid and Ketone Metabolism <ul style="list-style-type: none">Update Lecture: Inborn Errors of Metabolism and Autophagy.MiRNA analysis provides new insights into propionic acidemia related cardiomyopathy.Propionate anions produce acute and sustained remodelling of calcium transients in rat ventricular myocytes.α-galactosidase A activity modulates DNA methylation of androgen receptor promoter in Fabry disease vascular endothelial cells.The satellite cell paradox in Pompe disease: breaking the barriers for regeneration.

12:00	SESIÓN VIII ► Dr. D. Gonzalez-Lamuño ► Hospital Marqués de Valdecilla (Santander) Simposio Amicus: A Closer Look at the Therapeutic Goals in the Management of Fabry Disease <ul style="list-style-type: none">Decoding Fabry Disease: A systemic and Multi-organ Disease.Defining Treatment Success in the Management of Fabry Disease.Migalastat in the Real World - Experience from a Fabry Center of Excellence. Plenary Session 3: Old Players in New Roles <ul style="list-style-type: none">Cholesterol: More than Meets the Eye.Mitochondria and Neurodegeneration.Inborn Errors of Metabolism as Risk Factors of Parkinson Disease. Parallel Session 3D: Inborn Errors of Metabolism as Autophagy Disorders <ul style="list-style-type: none">Structural insights into drug therapy of mitochondrial fatty acid oxidation disorders.Impact of UX007 and dietary management on major clinical events in a 78- week single-arm openlabel phase 2 LC-FAOD study.Metabolomics profiling in dried blood spots differentiates clinical phenotypes in VLCADD.3-hydroxybutyrate (3-HB) treatment in MADD: a systematic literature review and international retrospective cohort study.Restoration of VLCAD in null mice and mutant human fibroblasts using novel mRNA technology: Model to treat fatty acid β-oxidation disorders.Targeting cardiolipin: a new therapeutic approach to treat LCHAD and mitochondrial TFP deficiencies.
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12:15	SESIÓN IX ► Dr. M.L. Couce ► Hospital Clínico Universitario de Santiago de Compostela Garrod Lecture: Triheptanoin versus trioctanoin for long-chain fatty acid oxidation disorders Simposio Orphan Europe: Optimising long-term outcomes of patients with Propionic and Methylmalonic Acidaemias <ul style="list-style-type: none">Challenges with protein restriction & malnutrition in the long-term management of PA & MMA patients.Overcoming these long-term management challenges: From an in-country experience to a Europe-wide investigator trial (LOTUS).Optimising long-term outcomes with Carbaglu: current and future data. A 4-year follow-up case study & outlines of the PROTECT and CAMP studies.
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	Simposio Sobi: Rethinking potential in management of Urea Cycle Disorders <ul style="list-style-type: none">Current Treatment Strategies in Urea Cycle Disorders.Revision of Guidelines for Management of Urea Cycle Disorders.Nutritional Management of UCDS – Opportunities for Optimal Treatment Outcomes. Plenary Session 6: Treating Inborn Errors of Metabolism <ul style="list-style-type: none">Treating Lysosomal Storage Diseases: What have we Learnt?.Lessons from Brain Energy Metabolism: Therapy and Outcome Measures in Clinical Trials.Beyond Gene Therapy.
12:30	SESIÓN X ► Dr. I. Vitoria ► Hospital La Fe (Valencia) Simposio Sanofi Genzyme: The Sands of Time in Fabry Disease <ul style="list-style-type: none">Classic versus Late Onset phenotypes versus Polymorphisms and the importance of Lyso-GL-3.Tissue and Podocyte GL-3 clearance.Adult Treatment Guidelines and the importance of DOSE. Parallel Session 2B: Lysosomal Storage Disorders <ul style="list-style-type: none">Update Lecture: Neuronal Ceoid Lipofuscinoses.Efficient and effective newborn screening for lysosomal disorders.Novel treatment of MPS II (Hunter Syndrome) with SB-913 ZFN-mediated in vivo human genome editing: Update from a Phase 1/2 clinical trial.Antisense oligonucleotides promote exon inclusion in iPSC-derived skeletal muscle cells from Pompe patients.Benefit of MGTA-456 cord blood expansion in enhancing donor derived microglial engraftment as treatment for inherited metabolic disorders. Parallel Session 4A: Amino Acid Disorders and Organic Acidurias <ul style="list-style-type: none">Update Lecture: Branched Chain Amino Acid Metabolism: From Rare to More Common Disorders.Interplay of enzyme replacement therapy, diet and betaine in murine cystathionine beta-synthase-deficient homocystinuria.Surrogate biomarkers for clinical trial design in methylmalonic acidemia (MMA): A bench to bedside approach.Identification of a multi-protein complex for mitochondrial cobalamin and methylmalonyl-CoA processing.Newborn screening, a disease-modifying intervention for glutaric aciduria type 1.

12:45	SESIÓN XI ► Dr. A. Gonzalez Meneses ► Hospital Virgen del Rocío (Sevilla) Simposio Sobi: Hereditary tyrosinemia type 1: Identification <ul style="list-style-type: none">Inclusion of HT-1 in German newborn screening panel - Learnings and implementation.Implications of early or later detection in clinical practice - Updated recommendations for optimal management of HT-1 patients detected through newborn screening.Nutritional management of HT-1 - Achieving a successful diet therapy.Current analytical performance of succinylacetone and nitisonone determination in dried blood spot samples – Important aspects in clinical practice. Parallel Session 1A: Glycosylation and Carbohydrate Disorders <ul style="list-style-type: none">Fertility in classical galactosaemia, N-glycan, hormonal and inflammatory gene expression interactions.Link between glycemia and hyperlipidemia in Glycogen Storage Disease type IA.Tracing the fate of galactose in PGM1-CDG.Defining a new immune deficiency syndrome; MAN2B2-CDG.Ngly1 pathogenic variant causing deglycosylation defect, masquerading as mitochondrial hepatocerebral cytopathy.Longitudinal follow-up of 75 PMM2-CDG patients. Simposio Chiesi: Discover alpha-mannosidosis: from disease to management <ul style="list-style-type: none">Alpha-mannosidosis: an overview.Digging into alpha-mannosidosis complexity: Real life experience.Velmanase alfa clinical development: key results and learnings.Managing alpha-mannosidosis.Discover alpha-mannosidosis from disease to management: conclusion. Parallel Session 3C: Peroxisomal Disorders <ul style="list-style-type: none">GOT2 deficiency: a novel disorder of the malate aspartate shuttle resulting in serine deficiency.Pharmacologic inhibition of hepatic O-GlcNAcase enhances ureagenesis and ammonia detoxification.Identification of energy balance dysregulation in a mouse model of mutype methylmalonic aciduria.Biallelic SLC13A3 mutations cause reversible leukoencephalopathy with increased urine excretion of alphaketoglutarate.Dichotomous effect of mutations causing X-linked sideroblastic anaemia and protoporphyria explained by the first human ALAS2 structure.Expanding the neurological spectrum of seipin deficiency (BSCL2), a complex lipid defect.
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13:00	SESIÓN XII ► Dra. A. Garcia Cazorla ► Hospital Sant Joan de Deu (Barcelona) Parallel Session 2A: Nutrition and Dietetics <ul style="list-style-type: none">Update Lecture: Long Term Neurological Effects of Special Diets.Prospective study: Glycomacropeptide and conventional amino acid protein substitutes in children effect on blood phenylalanine and growth.Effect of phytosterols on serum lipids of children with hypercholesterolemia.Quality of dietary carbohydrates affects gut microbial community of phenylketonuric subjects.Body composition in hepatic glycogen storage disease: relationship with uncooked cornstarch. Plenary Session 5: Metabolic Pathways and Subcellular Organelles: New Connections <ul style="list-style-type: none">One Gene, One Enzyme... Several Reactions! How do we deal with Enzyme Promiscuity?.Bridging the Gap: Linking Cellular Metabolism and Protein Glycosylation in the Golgi.Organelle Interplay - Peroxisome Interactions in Health and Disease. Simposio Centogene: Multi-omics approach in diagnosis of rare diseases <ul style="list-style-type: none">Metabolic diseases in the view of a neurologist – clinical and diagnostic observations.Proteomics and metabolomics supporting clinical diagnosis in rare diseases. Late Breaking News <ul style="list-style-type: none">Squalene synthase deficiency; clinical, biochemical and molecular characterization of a novel defect in cholesterol biosynthesis.Failure to eliminate a phosphorylated glucose-analog leads to neutropenia in patients with G6PT and G6PC3 deficiency.Sialic acid catabolism by N-acetylneuraminatase pyruvate lyase is essential for muscle functionSolving the unknown in Mendelian Metabolic diseases: Glutaminase deficiency, a Novel Repeat Expansion Disorder identified through Deep Phenomics and Genomics.
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