

## **Grupo neurocirugía y neuropatología**

### **Publicaciones y proyectos de investigación en los últimos 6 años:**

#### **A) Publicaciones:**

1.- COUCE ME, Cottam DR, Teijeiro R, Esplen J, Schauer P, Burguera B. The role of central Ghrelin in human obesity. *J Endocrinol Invest* 29 (7): 599-605. 2006.

2.- COUCE ME, Cottam DR, Teijeiro R, Esplen J, Schauer P, Burguera B. Is ghrelin the culprit for weight loss after gastric bypass surgery? A negative answer. *Obes Surg.* 2006 Jul;16(7):870-8..

3.- Burguera B, Brunetto A, Garcia-Ocana A, Teijeiro R, Esplen J, Thomas T, COUCE ME, Zhao A. Leptin increases proliferation of human osteosarcoma cells through activation of PI(3)-K and MAPK pathways. *Med Sci Monit.* 2006 Oct 27;12(11):BR341-349

4.- COUCE ME, Esplen J., Teijeiro R, Achim C., Burguera B. Ghrelin has trophic effects on human neuroglial cells. An in vitro study. *Obesity and Metabolism* 2 (2): 87-94. 20061.- Gene AH. Gardner PA. COUCE ME. Rapidly expanding brain mass. *Transplant Infectious Disease.* 9(3):211-3, 2007.

5.- Gene AH. Gardner PA. COUCE ME. Rapidly expanding brain mass. *Transplant Infectious Disease.* 9 (/3):211-32007

6.- COUCE ME. Medina-Flores R. Wong M. Chu CT. Occult germ cell tumour presenting as spontaneous intracerebral haemorrhage. *Histopathology.* 50(6):789-93, 2007.

7.- Burguera B, Agusti A, Arner P, Baltasar A, Barbe F, Barcelo A, Breton I, Cabanes T, Casanueva FF, COUCE ME, Dieguez C, Fiol M, Fernandez Real JM, Formiguera X, Fruhbeck G, Garcia Romero M, Garcia Sanz M, Ghigo E, Gomis R, Higa K, Ibarra O, Lacy A, Larrad A, Masmiquel L, Moizé V, Moreno B, Moreira J, Ricart W, Riesco M, Salinas R, Salvador J, Pi-Sunyer FX, Scopinaro N, Sjostrom L, Pagan A, Pereg V, Sánchez Pernaute A, Torres A, Urgeles JR, Vidal-Puig A, Vidal J, Vila M. Critical assessment of the current guidelines for the management and treatment of morbidly obese patients. *J Endocrinol Invest.* 2007 30:844-52.

8.- F.F. Casanueva, COUCE ME, C. Dieguez, M. Fiol, J.M. Fernandez Real, X. Formiguera, G. Fruhbeck, M. Garcia Romero, M. Garcia Sanz, E. Ghigo. Critical assessment of the current guidelines for the management and treatment of morbidly obese patients. *J. Endocrinol. Invest.* 30: 844-852, 2007.

9.-Differences in mitochondrial function and antioxidant systems between regions of human glioma. Santandreu F., Brell Doval M., Gene Heym Al., Guevara R., Oliver J., COUCE ME, Roca P. *Cell Physiol Biochem*;22:757-768, 2008.

10.-Diferencias en la expresión de PEX entre el centro y la periferia tumoral gliomas. Relación con el subtipo histológico y el grado tumoral. Marta Brell<sup>1</sup>, J. Ibáñez<sup>1</sup>, Ana Felpete, Bartolome Burguera, Marga Frontera, COUCE ME *Medicina Balear* 2010; 25 (3); 12-21

11.- Quantitative analysis of matrix metalloproteinase-2 mRNA expression in central and peripheral regions of gliomas. Marta Brell, J. Ibáñez, Ana Felpete, Bartolome Burguera, Marga Frontera, COUCE ME. *Brain tumor Patho*; 28:137-144. 2011

12.- Tur J, Alòs M, Iglesias L, Luque L, Colom A, Escudero A, Martínez D, Pagán A, Ugarriza E, Frontera M, Nicola G, Palomero A, Tofé S, Urgeles JR, Barceló A, COUCE M, De La Peña M, Fiol M, Cortés B, Terés E, Tumbarello A, Álvarez C, Salinas R, Pereg V, González X, Burguera B. TRAMOMTANA (Tratamiento Multidisciplinar de la Obesidad Mórbida: Medicamentos, Terapia de comportamiento, Apoyo Nutricional y Actividad física). De la pregunta a la realidad de un ensayo clínico investigador iniciado (II). *Endocrinol Nutr.* 2011; 58:299-307

13.- Burguera B; Colom A; Piñero E; Yanez A; Caimari M, Juan Tur J, Frontera M, COUCE M, Cardó E, Aguiló A, Burguera A, Cabeza E. ACTYBOSS: Activity, Behavioral Therapy in Young Subjects. After-school intervention Pilot Project on obesity prevention. Incentive-driven children obesity prevention program. *Obes Facts.* 2011;4 :400-6.

14.- Sampol López, M. Brell Doval, R. Guevara de Bonis, J. Ibáñez Domínguez, Couce ME, Valor de la expresión del ARN mensajero de la isocitrato deshidrogenasa (IDH1) como predictor de agresividad en gliomas. *Medicina Balear*; 27 (1); 10-18, 2012.

15.- Gene AH, Couce ME, Brell M, Picado MJ. Multiple myeloma presenting as an asymptomatic forehead mass resembling solitary plasmacytoma. *Wien Klin Wochenschr* 123: 3. 2011

16.- Ramos-Murguialday M, Lasa-Mene'ndez, V, Iriarte-Ortabe JI, Couce ME . Chondrosarcoma of the Mandible Involving Angle, Ramus, and Condyle. *The Journal of Craniofacial Surgery* 23 (4): 1216-1218. 2012

17.- Sampol M, "Genotoxicity Assessment of Birch-bark Tar – A Most Versatile Prehistoric Adhesive" *Medical Anthropology*.

18.- Guevara R, Gianotti M, Oliver J and Roca P. Age and Sex-Related Changes in Rat Brain Mitochondrial Oxidative Status. [Exp Gerontol](#). 2011 Nov;46(11):923-8.

19.- Rocío Guevara, Magdalena Gianotti, Pilar Roca and Jordi Oliver. Age and Sex-Related Changes in Rat Brain Mitochondrial Function. *Cell Physiol Biochem* 2011;27:201-206.

20.- Coro Paisán-Ruiz, Rocío Guevara, Monica Federoff, Hasmeth Hanagasi, Fardaz Sina, Elahe Elahi, Susanne A. Schneider, Petra Schwingenschuh, Nin Bajaj, Murat Emre, Andrew B. Singleton, John Hardy, Kailash P. Bhatia, Sebastian Brandner, Andrew J. Lees and Henry Houlden. Early-Onset L-dopa-Responsive Parkinsonism with Pyramidal Signs Due to ATP13A2, PLA2G6, FBXO7 and Spatacsin Mutations. *Movement Disorders* Vol. 25, No. 12, 2010, pp. 1791–1800. 2010.

21.- Guevara, R.; Santandreu, F.M.; Valle, A.; Gianotti, M.; Oliver, J.; Roca, P. Sex-dependent differences in old rat brain mitochondrial function and oxidative stress. *Free Radical Biology and Medicine* 2009 Jan 15;46(2):169-75.

22.- Valle, A.; Guevara, R.; Garcia-Palmer F.J.; Roca, P.; Oliver, J. Caloric restriction retards the age-related decline in mitochondrial function of brown adipose tissue. *Rejuvenation Research* 2008 Jun;11(3):597-604.

23.- Guevara, R.; Valle, A.; Gianotti, M; Roca, P.; Oliver, J. Gender-dependent differences in serum profiles of insulin and leptin in caloric restricted rats. *Hormone and Metabolic Research*. 2008 Jan;40(1):38-43.

24.- Valle, A.; Guevara, R.; Garcia-Palmer, F.J.; Roca, P.; Oliver, J. Sexual dimorphism in liver mitochondrial oxidative capacity is conserved under caloric restriction conditions. American Journal of Physiology-Cell Physiology Am J Physiol Cell Physiol. 2007;doi:10.1152/ajpcell.00203.

**B) Proyectos:**

1.- Couce Matovelle, ME Investigador Principal) 2007-2012 Agencia: Instituto de Salud Carlos III. Madrid **Comparative study between central and peripheral regions in gliomas**

2.- (Couce Matovelle, ME Investigador Principal) 2004-2007. Agencia: Balearic State Government Grant **Creation of an interdisciplinary group in oncology.**

3.- (Couce Matovelle ME, Co-Investigador ) 2006/08 2012. Agencia: CAIBER (clinical biomedical research consortium) ISCIII **Creation of a Hospital central Unit for Clinical Research**

4.- (Couce Matovelle, ME, Investigador Principal) 2009-2013 Agencia: Instituto de Salud Carlos III. Madrid **Beca BIOBANCO/Research award for purchase of Biobank infrastructure.**

5.- (Couce Matovelle, ME, Investigador Principal) 2007-2009 Agencia: Spanish Association against cancer. AECC **Study on the regional differences in gliomas.**