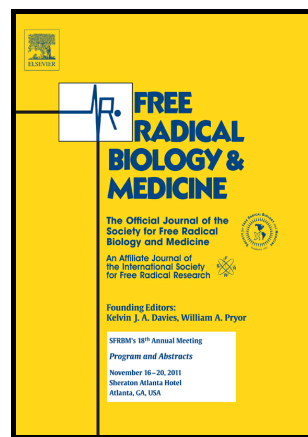


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Role of Glutathione in the Regulation of Epigenetic Mechanisms in Disease

José Luis García-Giménez^{1-4*}, Carlos Romá-Mateo¹⁻⁵, Gisselle Pérez-Machado³⁻⁴, Lorena Peiró-Chova², Federico V. Pallardó^{1-4*}

¹Center for Biomedical Network Research on Rare Diseases (CIBERER) Institute of Health Carlos III. Valencia (Spain)

²INCLIVA Biomedical Research Institute. Valencia (Spain)

³Dept. Physiology. School of Medicine and Dentistry. Universitat de València (UV). Valencia (Spain)

⁴Epigenetics Research Platform (CIBERER/UV). Valencia (Spain)

⁵Faculty of Biomedicine and Health Sciences. Universidad Europea de Valencia. Valencia (Spain)

j.luis.garcia@uv.es

federico.v.pallardo@uv.es

*Corresponding authors at: Department of Physiology. Facultat de Medicina i Odontologia, Universitat de València. CIBERER. Biomedical Network Research Center for Rare Diseases. Epigenetics Research Platform (CIBERER/UV). INCLIVA-CIPF mixt unit for research. Biomedical Research Institute. Avda. Blasco Ibañez Nº 15. 46010 - Valencia, Spain. Tel.: +34963864646.

Abstract

Epigenetics is a rapidly growing field that studies gene expression modifications not involving changes in the DNA sequence. Histone H3, one of the basic proteins in the nucleosomes that make up chromatin, is S-glutathionylated in mammalian cells and tissues, making Gamma-L-glutamyl-L-cysteinylglycine, glutathione (GSH), a physiological antioxidant and second messenger in cells, a new post-translational modifier of the histone code that alters the structure of

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