

## Accepted Manuscript

Intercellular communication via gap junction channels between chondrocytes and bone cells

Paula Carpintero-Fernandez, Raquel Gago-Fuentes, Hong Z. Wang, Eduardo Fonseca, José R. Caeiro, Virginijus Valiunas, Peter R. Brink, Maria D. Mayan



PII: S0005-2736(18)30273-6  
DOI: doi:[10.1016/j.bbamem.2018.09.009](https://doi.org/10.1016/j.bbamem.2018.09.009)  
Reference: BBAMEM 82850  
To appear in: *BBA - Biomembranes*  
Received date: 29 April 2018  
Revised date: 6 August 2018  
Accepted date: 12 September 2018

Please cite this article as: Paula Carpintero-Fernandez, Raquel Gago-Fuentes, Hong Z. Wang, Eduardo Fonseca, José R. Caeiro, Virginijus Valiunas, Peter R. Brink, Maria D. Mayan , Intercellular communication via gap junction channels between chondrocytes and bone cells. *Bbamem* (2018), doi:[10.1016/j.bbamem.2018.09.009](https://doi.org/10.1016/j.bbamem.2018.09.009)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**Intercellular communication via gap junction channels between chondrocytes and bone cells.**

Paula Carpintero-Fernandez<sup>1,2</sup>, Raquel Gago-Fuentes<sup>1</sup>, Hong Z. Wang<sup>4</sup>, Eduardo Fonseca<sup>1</sup>, José R. Caeiro<sup>3</sup>, Virginijus Valiunas<sup>4</sup>, Peter R. Brink<sup>4†</sup> and Maria D. Mayan<sup>1‡\*</sup>

1. CellCOM-SB Research Group. Instituto de Investigación Biomédica de A Coruña (INIBIC). University of A Coruña. Servizo Galego de Saúde (SERGAS). Xubias de Arriba, 84 15006 A Coruña, Spain.

2. Epigenetic and Cellular Senescence Group. Blizard Institute. Queen Mary University of London. 4 Newark Street, London E1 2AT, UK.

3. Department of Orthopaedic Surgery and Traumatology. Complexo Hospitalario Universitario de Santiago de Compostela. Universidade de Santiago de Compostela (USC). Choupana s/n 15706 Santiago de Compostela, Spain

4. Department of Physiology and Biophysics, State University of New York, Stony Brook, New York, USA.

‡Shared senior authors

\*Address correspondence to: María D. Mayán, CellCOM Research Group. INIBIC (XXIAC, SERGAS). University of A Coruña. Xubias de Arriba 84. 15006 A Coruña, SPAIN. Phone: 34-981-176399. Fax: 34-981-176398. Email: [Ma.Dolores.Mayan.Santos@sergas.es](mailto:Ma.Dolores.Mayan.Santos@sergas.es)

**Running Title:** Molecular crosstalk between cartilage, bone and synovium

**Keywords:** connexin43, gap junctions, cellular communication, chondrocyte, articular cartilage, bone cells, synovial cells.

Abbreviations: Bone cells (BC), chondrocytes (CH), connexins (Cxs), connexin43 (Cx43), extracellular vesicle (EVs), gap junctions (GJ), heat shock protein 90 (HSP90), hemichannels (HCs), lucifer yellow (LY), mass spectrometry (MS), osteoarthritis (OA), rheumatoid arthritis

Download English Version:

<https://daneshyari.com/en/article/11026163>

Download Persian Version:

<https://daneshyari.com/article/11026163>

[Daneshyari.com](https://daneshyari.com)