

# Letter to the editor

## Identification of blood biomarkers: gastric cancer

Marsyori Anarosa Flores-Guerra,<sup>1</sup>  Leslie Katty Lévano-Arias,<sup>1</sup>  Julia Cecilia Morón-Valenzuela,<sup>1</sup>   
José Fernando Salvador-Carillo.<sup>1\*</sup> 

### OPEN ACCESS

#### Citation:

Flores-Guerra MA, Lévano-Arias LK, Morón-Valenzuela JC, Salvador-Carillo JF. Letter to the editor. Identification of blood biomarkers: gastric cancer. *Rev Colomb Gastroenterol.* 2020;35(3):394-395. <https://doi.org/10.22516/25007440.602>

**Keywords:** Gastric cancer; Prevention; Genes.

<sup>1</sup> Professional School of Human Medicine, Universidad Privada San Juan Bautista, Chinchá Campus

#### \*Correspondence:

José Fernando Salvador-Carillo  
[jose.salvador@upsjb.edu.pe](mailto:jose.salvador@upsjb.edu.pe)

Received: 26/06/20  
Accepted: 30/07/20



Dear Editor:

We have read with great interest the article published by Gomez *et al.* (1), which reports the identification of blood biomarkers that allow detecting different stages of gastric cancer development. It reports that there are 48 genes that allow differentiating patients with chronic gastritis from patients with gastric cancer. Likewise, it describes 14 genes that differentiate diffuse cancer pathologies from intestinal pathologies, as well as a group of 48 genes that distinguish chronic gastritis from intestinal metaplasia in the patients evaluated.

However, we would like to know why the genes that allow distinguishing such pathologies could not be identified. The study states that the extracted RNA was evaluated in the latest whole-genome microarray (2). Said technique can identify which genes have altered gene expression in tested patients. Nevertheless, it is not clear why these genes are not mentioned.

This becomes critical in a scenario where publications evaluating biomarkers for gastric cancer in Latin American population are limited. The identification of the genes found could lead to efforts by the scientific community to continue conducting studies to understand the development of gastric cancer in this population. For example, a recent study found that some polymorphisms of interleukins IL-10 and IL-4 could be associated with gastric cancer in Colombian population (3).

That study also presents a significant finding for the detection of pre-malignant lesions and the diagnosis of gastric cancer. However, we cannot give continuity to the results of the work without this valuable information.

### Acknowledgments

The authors would like to thank the Professional School of Human Medicine of the Universidad Privada San Juan Bautista for providing the necessary support to prepare this letter to the editor.

### Conflict of interest

None declared by the authors.

## REFERENCES

---

1. Gómez MA, Torres KE, Falduto MT, Magnuson SR. Identificación de biomarcadores sanguíneos para la detección de lesiones premalignas y el diagnóstico del cáncer gástrico. *Rev Col Gastroenterol.* 2017;31(2):7-19. <https://doi.org/10.22516/25007440.124>
2. MAQC Consortium, Shi L, Reid LH, Jones WD, Shippy R, Warrington JA, Baker SC, Collins PJ, de Longueville F, Kawasaki ES, Lee KY, Luo Y, Sun YA, Willey JC, Setterquist RA, Fischer GM, Tong W, Dragan YP, Dix DJ, Frueh FW, Goodsaid FM, Herman D, Jensen RV, Johnson CD, Lobenhofer EK, Puri RK, Schrf U, Thierry-Mieg J, Wang C, Wilson M, Wolber PK, Zhang L, Amur S, Bao W, Barbacioru CC, Lucas AB, Bertholet V, Boysen C, Bromley B, Brown D, Brunner A, Canales R, Cao XM, Cebula TA, Chen JJ, Cheng J, Chu TM, Chudin E, Corson J, Corton JC, Croner LJ, Davies C, Davison TS, Delenstarr G, Deng X, Dorris D, Eklund AC, Fan XH, Fang H, Fulmer-Smentek S, Fuscoe JC, Gallagher K, Ge W, Guo L, Guo X, Hager J, Haje PK, Han J, Han T, Harbottle HC, Harris SC, Hatchwell E, Hauser CA, Hester S, Hong H, Hurban P, Jackson SA, Ji H, Knight CR, Kuo WP, LeClerc JE, Levy S, Li QZ, Liu C, Liu Y, Lombardi MJ, Ma Y, Magnuson SR, Maqsoodi B, McDaniel T, Mei N, Myklebost O, Ning B, Novoradovskaya N, Orr MS, Osborn TW, Papallo A, Patterson TA, Perkins RG, Peters EH, Peterson R, Philips KL, Pine PS, Puztai L, Qian F, Ren H, Rosen M, Rosenzweig BA, Samaha RR, Schena M, Schroth GP, Shchegrova S, Smith DD, Staedtler F, Su Z, Sun H, Szallasi Z, Tezak Z, Thierry-Mieg D, Thompson KL, Tikhonova I, Turpaz Y, Vallanat B, Van C, Walker SJ, Wang SJ, Wang Y, Wolfinger R, Wong A, Wu J, Xiao C, Xie Q, Xu J, Yang W, Zhang L, Zhong S, Zong Y, Slikker W Jr. The MicroArray Quality Control (MAQC) project shows inter- and intraplatform reproducibility of gene expression measurements. *Nat Biotechnol.* 2006;24(9):1151-61. <http://doi.org/10.1038/nbt1239>
3. Cárdenas DM, Sánchez AC, Rosas DA, Rivero E, Paporoni MD, Cruz MA, Suárez YP, Galvis NF. Preliminary analysis of single-nucleotide polymorphisms in IL-10, IL-4, and IL-4Ra genes and profile of circulating cytokines in patients with gastric Cancer. *BMC Gastroenterol.* 2018;18(1):184. <http://doi.org/10.1186/s12876-018-0913-9>