

Correction

Correction: Kallifatidis, G. *et al.* The Marine Natural Product Manzamine A Targets Vacuolar ATPases and Inhibits Autophagy in Pancreatic Cancer Cells. *Mar. Drugs* 2013, 11, 3500–3516

Georgios Kallifatidis ^{1,†}, Dominic Hoepfner ^{2,†}, Tiphaine Jaeg ², Esther A. Guzmán ^{1,*} and Amy E. Wright ¹

¹ Marine Biomedical and Biotechnology Research Program, Harbor Branch Oceanographic Institute, Florida Atlantic University, 5600 US 1 North, Fort Pierce, FL 34946, USA; E-Mails: geokallifa@aol.com (G.K.); awrigh33@hboi.fau.edu (A.E.W.)

² Novartis Institutes for BioMedical Research, Developmental & Molecular Pathways, Novartis Pharma AG, WSJ-355.1.051.21, Fabrikstrasse 22, Basel CH-4056, Switzerland; E-Mails: dominic.hoepfner@novartis.com (D.H.); tiphaine.jaeg@wanadoo.fr (T.J.)

[†] These authors contributed equally to this work.

* Author to whom correspondence should be addressed; E-Mail: eguzman9@hboi.fau.edu; Tel.: +1-772-242-2452; Fax: +1-772-242-2332.

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We found two errors in our previous published paper [1]. Figure 4A has a mistake in the units in the labels, where it shows mM instead of micromolar (μ M). A correctly labeled Figure 4A ensues. In Figures 2 and 4, the size bar scale is micrometers (μ m). We apologize for the inconvenience caused to our readers.

Figure 2. Manzanine A affects vacuolar morphology and acidification in yeast, similar to bafilomycin. **(A)** Vacuolar morphology analysis using Vph1-GFP (a v-ATPase V0 domain) as marker. DMSO treated cells showed clusters of small vacuoles. In bafilomycin A1 treated cells one large vacuole was detected in almost all cells. Manzanine A treated cells displayed a few enlarged vacuoles similar to the situation observed in bafilomycin A1 treated cells. **(B)** Vacuolar acidification analysis using LysoSensor Green as marker. DMSO treated cells show staining of the vacuolar membranes. Treatment of cells with bafilomycin A1 or manzanine A results in abolishment of detectable vacuolar staining. Size bar represents 5 μm .

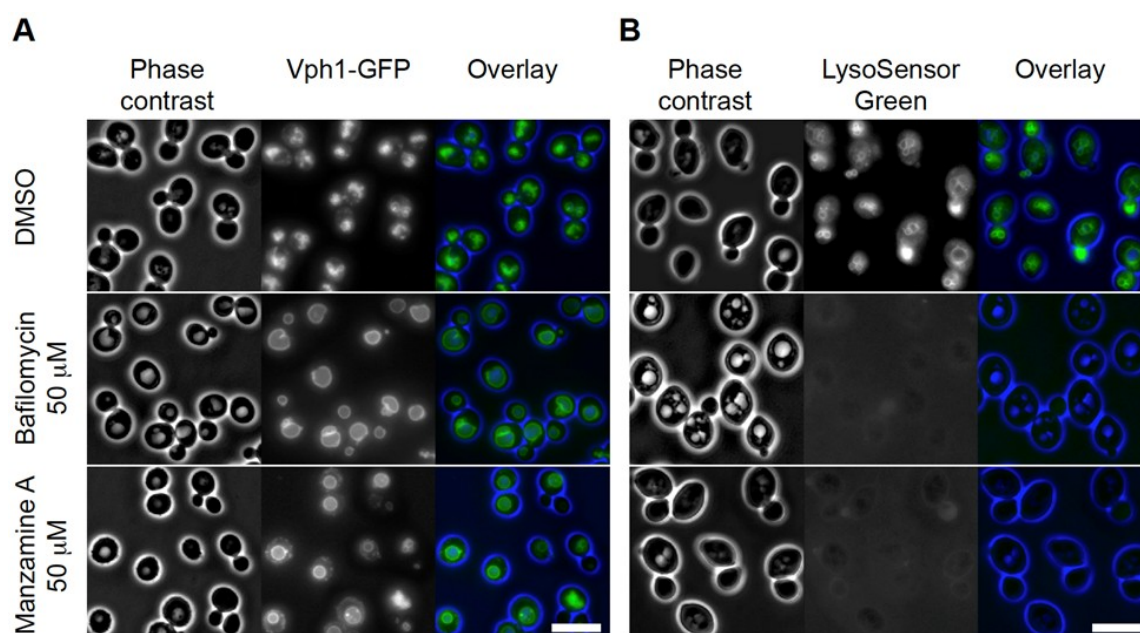
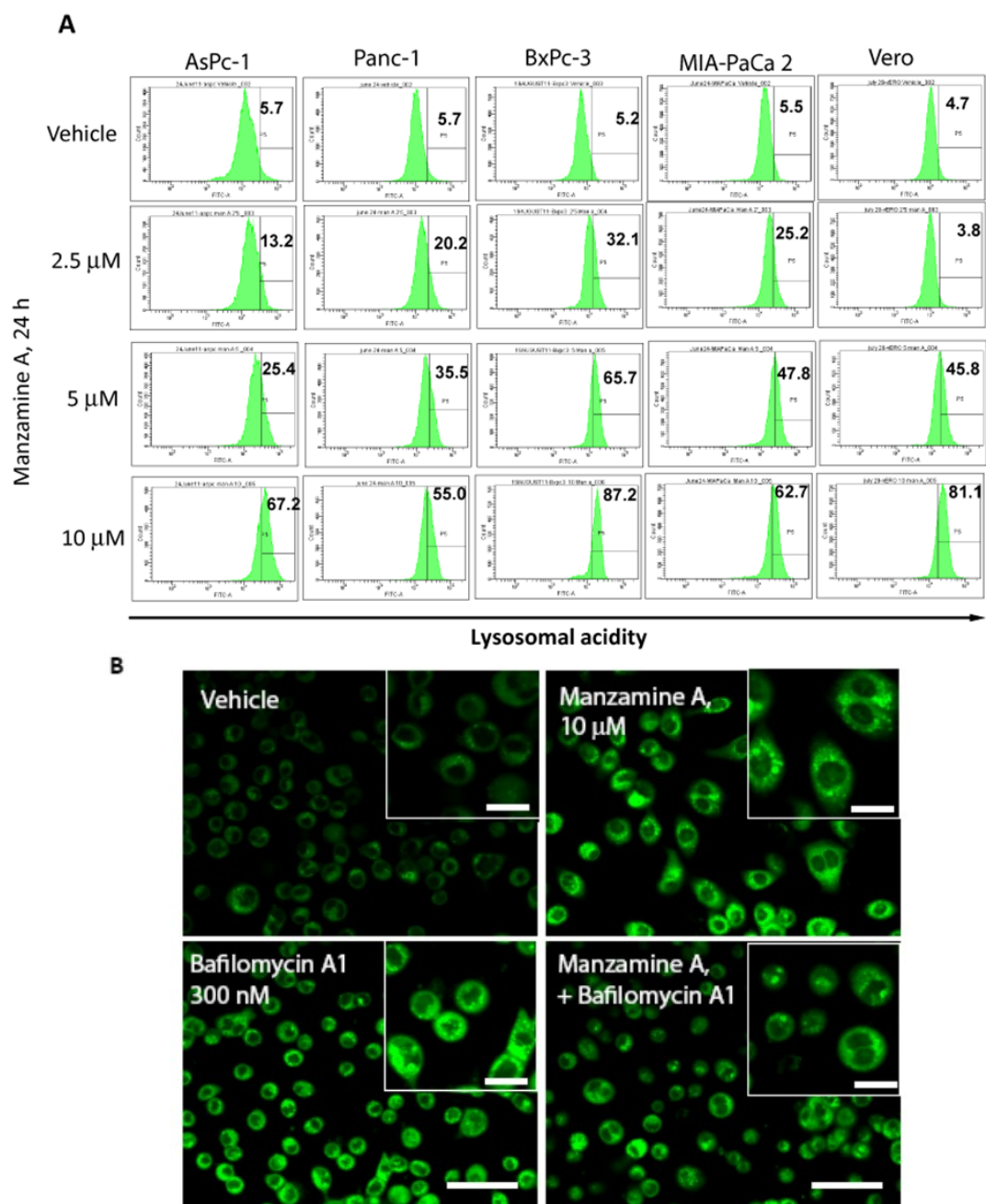


Figure 4. Manzanine A increases acidity in pancreatic cancer cells and non-malignant Vero cells. **(A)** AsPC-1, PANC-1, BxPC-3 and MIA PaCa-2 pancreatic cancer cells, as well as non-malignant Vero cells were treated with 2.5, 5, or 10 μM manzanine A or methanol (vehicle control). Twenty-four hours later cells were stained with Lysosensor green and analyzed by flow cytometry. Numbers in histograms indicate percentage (%) of cells with increased fluorescence intensity compared to vehicle control treated cells. One representative experiment out of three is shown. **(B)** AsPC-1 cells were treated for 2 h with 10 μM manzanine A or 300 nM bafilomycin A1 alone or in combination. Following treatment, cells were stained by Lysosensor green pH indicator followed by detection of acidic lysosomes by immunofluorescence microscopy at a magnification of 60 $\times$. One representative experiment out of three is shown. Size bar represents 150 μm in the main figures and 50 μm in the inserts.



Reference

1. Kallifatidis, G.; Hoepfner, D.; Jaeg, T.; Guzmán, E.A.; Wright, A.E. The Marine Natural Product Manzamine A Targets Vacuolar ATPases and Inhibits Autophagy in Pancreatic Cancer Cells. *Mar. Drugs* **2013**, *11*, 3500–3516.