To the editor:

The recent article by Olgün et al. [1] provided for highly interesting reading. MicroRNA-21 (miR-21) may contribute to tumor progression and prognosis in a number of other gastrointestinal malignancies.

For instance, similar effects are seen in colorectal malignancies. It regulates TGFβR2 signaling in the malignant colonic tissue [2]. As a result, it modulates cancer stem cell function in colon tissue. Typically, miR-21 expression is accentuated in malignant colonic tissue [3]. An inverse relationship exists between miR-21 expression and the expression of Sprouty2 protein in the colonic cancerous cells [4]. miR-21 also modulates Cdc25A function and thereby further contributes to tumor progression in colorectal malignancies [5]. miR-21 also has a negative impact on PDCD4 mRNA levels within the cancerous cells [6]. Subjects with stage II colon cancer with accentuated miR-21 expression within the colonic stroma tend to have decreased disease free survival [7]. A similar negative impact is seen on overall survival. Interestingly, the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is markedly accentuated secondary to the anti-proliferative effects of chemotherapeutic agents such as 5-fluorouracil is marked...