

# Review of: "Vimentin Regulates Collagen Remodeling Through Interaction with Myosin 10"

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**Potential competing interests:** The author(s) declared that no potential competing interests exist.

## My suggestions:

It should better introduced the rationale of performing experiments both in a CRC cell line and fibroblasts. What the authors think about CRC associated fibroblasts?

In addition, the title refer to a general aspect that is demonstrated in mouse fibroblasts and it is not adequately described how translate the results in CRC.

Abstract should be extensively revised, avoiding to list all the methods used, but focusing on the main results.

Introduction and discussion should be extensively revised, reporting evidence and etc. in a logical and temporal manner.

At the end of introduction authors referred to "cancer progression". However they have not performed experiments evaluating cancer progression. Experiments have been performed only in a cell type.

How explain the increase in Myo10 expression levels in Vim KO cell line?

indicate the stimulus used at 3-6-24h.

Describe the characteristics of cell models the first time they are mentioned.

In figure 1d and throughout the manuscript indicate the cell type used.

Specify the meaning of VE-cadherin

Add a negative control, a staining only with secondary antibody in experiments showed in figure 1.

Colocalization experiments should be performed/showed also in SW480 cell line.

The main characteristics of cell lines used should be described the first time they are mentioned.

Throughout the manuscript and figures it should be indicated the cell line used in experiments.

To assess the impact of Vim-Myo10 colocalization and collagen remodelling on cell migration, authors should perform additional experiments. On the contrary, they could not declare that the interaction modulates cell migration.

Throughout the material and methods indicate the company of material used, the references and etc. Check the formula of compounds used. Add the antibodies used and the conditions used to perform experiments.

Overall, the impact of Vim-Myo10 and collagen remodelling in CRC should be better dissected and/or explained.