

lated. It has been reported that the inhibition of PSME3 increases sensitivity to proteasome inhibitors in MM. The favorable combination effect of bortezomib with HDAC inhibitors could be due to the modulation of the miR-7- PSME3 axis. Conclusion: We revealed that miR-7 exerts anti-myeloma effects and that PSME3 is one of the targets of miR-7. miR-7 is an interesting microRNA because it is positively regulated by MYC, even though it is tumor-suppressive. Elucidating the role of miR-7 may lead to the re-discovery of HDAC inhibitors in MM therapeutic strategies.

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