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On the cover: The model illustrates the p53-miR-34a pathway. The microRNA *miR-34a* mediates tumor suppression by interfering with the synthesis of key proteins controlling multiple biological pathways deregulated in tumor cells. The indicated pathways are deduced from the known functions of the *miR-34a* targets identified in the combined proteomic and transcriptomic analysis by Kaller *et al.* in this issue and in previous studies. For details, see the article by Hermeking *et al.*, pages M111.010462 1–16.

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