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Two of our faculty are now reaping the rewards of de

cades of meticulous basic research. Adrian Krainer's re search on RNA splicing—which began in the 1990s and grows out of earlier Nobel Prize-winning work by Louise Chow and Richard Roberts at CSHL and by Sue Berget and Phillip Sharp at MIT—has made possible the devel opment of a drug, now in Phase III trials, for the serious

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lular signaling pathways that play a key role in HER2-positive breast cancer. Phase 1 tri als will begin at Northwell in the spring of 2016. Other PTP1B-targeting compounds in Tonks' lab are being evaluated by a major pharmaceutical rm for treatment of diabe tes and obesity. It's another illustration of how basic science can pay o in ways that are not contemplated at the outset. We see similar promise in other elds: for instance, in Zachary Lippman's basic research on the process of branching morphogenesis in plants, which now points to a way of signi cantly increasing fruit yields; and in