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The team's latest findings suggest that the reason why the viral therapy is so discriminating has to do with how the IRES communicates with the rest of the poliovirus genome, in particular the end section known as the 3-prime nontranslated region. Gromeier and his collaborators determined that in cancer cells the two parts influence each other using a set of proteins called co-factors. In normal neurons, which lack the appropriate set of cofactors, the two sections of the modified virus cannot communicate and the virus does not reproduce. Better understanding of the treatment's exact mechanism is required before human testing can be considered. The cancer-killing polio agent is currently being produced at the National Cancer Institute, but Gromeier cautions that it must undergo extensive animal safety testing before clinical trials can commence. -- Sarah

Graham

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