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A promotional banner for a car. On the left, a large white '\$1500' is displayed on a black background. Below it, in smaller white text on a black background, it says 'CASH BACK\* OFFER ENDS 8/2/10'. On the right, a silver sedan is shown from a side-rear perspective against a light blue background.

# Heated Nanoparticles Offer Resonating Explanations For Why "They Made Me Do It"

by Doug Bonderud

## [Particle Sciences Inc.](#)

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Heatedly roaming the halls of the University of Buffalo, two scientists have been working on a way to remotely [control cells](#) and tiny microscopic worms. Thanks to the use of nanoparticles, [magnetic resonance](#) fields and a whole lot of awesome, they've found it.



Ufniversity of [Buffalo](#) doctoral student Heng Huang and UB physics professor Arnd Pralle have been slaving away over a hot nanoparticle for months now, perfecting a method by which these tiniest of [particles](#) could be used to not only trigger specific behaviors within cells, but also cause directed responses in [animals](#), most notably the *C. elegans* nematode, which looks like a [microscopic](#) worm but should totally put "the third" behind its name.

Classy.




After injecting magnetically sensitive nanoparticles near the "mouths" of the worms, known as the "amhpid", the team introduced a magnetic resonance which caused the nanoparticles and the surrounding [cell membrane](#) to heat up. The cell itself remained unchanged in temperature, and thanks to delicate handling by the Buffalo brainiacs, the sensitive nanoparticles did not simply

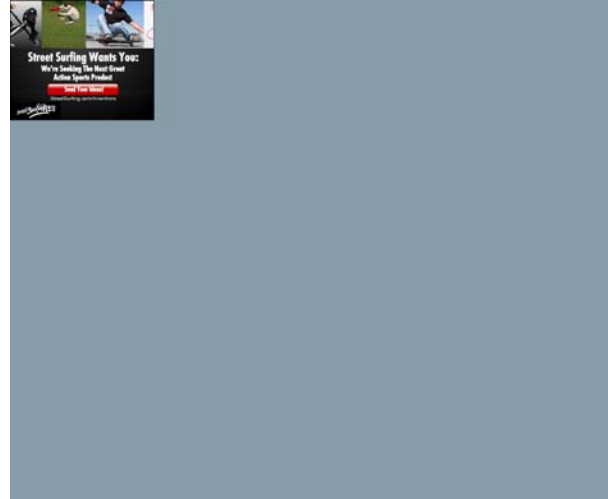
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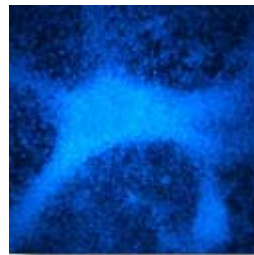
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