

## A nano step for men, a gigantic one for medecine !

*Nanomedicines, the long-awaited solution against serious illnesses.*

**W**hen a medicine is introduced in the body the active substance meets the natural barriers which are able to reduce its efficacy or to destroy it before it reaches its goal. That's why researchers have developed a new approach which consists in associating the active substance to a nanovector of nearly 100nm which can encapsulate and carry the therapeutic particle to the diseased organ. Moreover this vector nicknamed "Trojan Horse" enables to improve the efficacy of the medicinal product by protecting the molecule from degradation and by reducing its toxicity.



**I**ndeed some medicines attack healthy cells as much as unhealthy cells. The active substances of a medicine can be released far from the target site of action, thus they are losing their efficacy and they are also likely to cause toxic side-effects for the healthy parts of the body.

**T**hanks to these nanovectors we can diminish the used doses by reducing the side-effects and by allowing to get around the resistances of the body. The medicine can now treat serious illnesses such as Alzheimer or Parkinson's diseases, leukaemia, hepatic cancers and some tumours.

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