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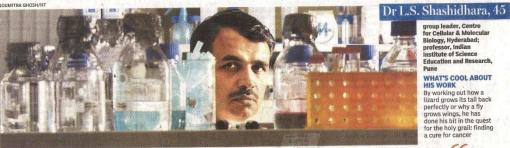


As economic gloom gathers over India, politicians squabble and we figure out how to tackle terror, a beacon of light: India's brightest young scientists. Using material as diverse as the sun, the sea and lizards' tails, they stand on the cutting edge of discovery. PAGES 10 & 11

Tails he wins

HAVE YOU ever wondered why a lizard's tail grows grows its wings or why your arms are almost exactly the same size and shape despite having devel-oped independently? These are americane that have

These are questions that have oped independently? These are questions that have intrigued Dr Ls. Shashidhara; the answers could hold the secret oproventing and treating cancer, which is caused by rogue cells that multiply without reason. His 15 years of studying why a fruit ffy grows wings address-es the very fun-damentals of human life. Dr Shashidhara says that it was his long dis



to preventing and treating cancer, which is caused by rouge cells that multiply without reason. His rows wings address-est he very fin-damentals of human life. Dissions with his fatter on the seminal work of hatfirst got him interested in evo-that first got him interested in evo-hutton. The inquiring young mind,

formed. This work has signifi-cantly increased our understand-ing of cancer. "Our work using an insect mod-el was used successfully to develop and test cancer drugs in 2001," he informs. "The treatment of de-formed cells is the same in a fly and in a human." "Pure science is about gaining a deeper understanding of life," says the 45-year-old, "And trying to understand nature is itself a moti-

vating factor. I find the manner in vating factor. I find the manner in which cells work and organise themselves just so exciting. It has given me an insight into how life volves. That is the philosophical side. On the practical side, my work can help the understanding of how a disease begins." Dr Shashidhara, who is also "deeply interested in teaching", has recently set up the biology deartment at the Indian Institute of Science Education and Research,

Contraction Contract

Pune, which "aims to integrate indergraduate teaching with high quality research". A self-confessed worksholic, Dr Shashidhara says he has to make a conscious effort to drag himseff away from the lab to spend time with his family ("It's impor-tant to do that"). "I enjoy my work 24x7," he says. "I get immersed in it, go into tritnal hiding and work day and night. The excitement of a new discovery drives me on."

I find the man in which cells work and organise themselves very

exciting. Our work using insect models was used to develop and test

group leader, Centre for Cellular & Molecular Biology, Hyderabad; professor, Indian Institute of Science

Education and Research

WHAT'S COOL ABOUT

HIS WORK By working out how a lizard grows its tail back perfectly or why a fly grows wings, he has done his bit in the quest for the holy grail: finding a cure for cancer

Pune

HIS WORK

cancer drugs

