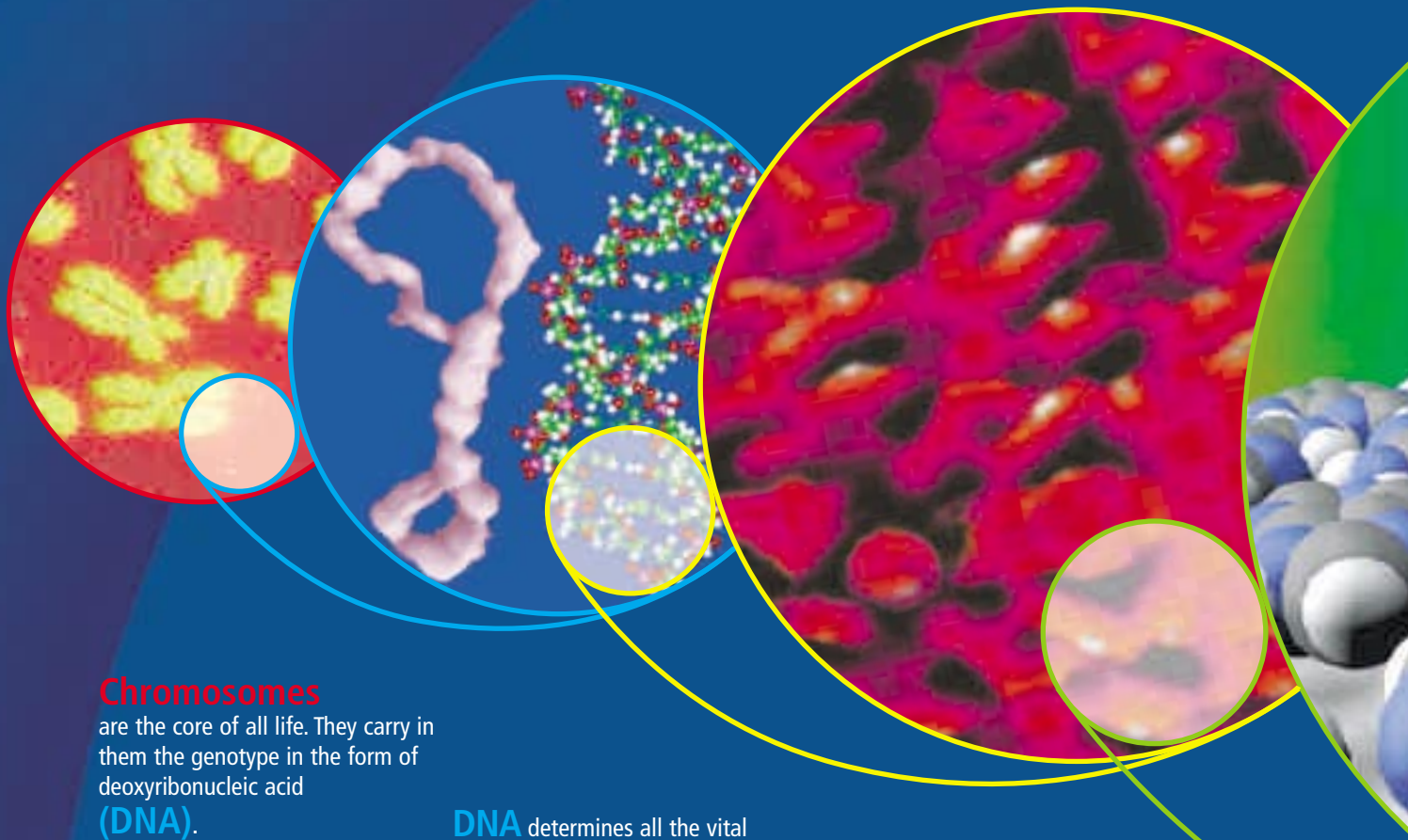


## Venturing into the nanocosmos



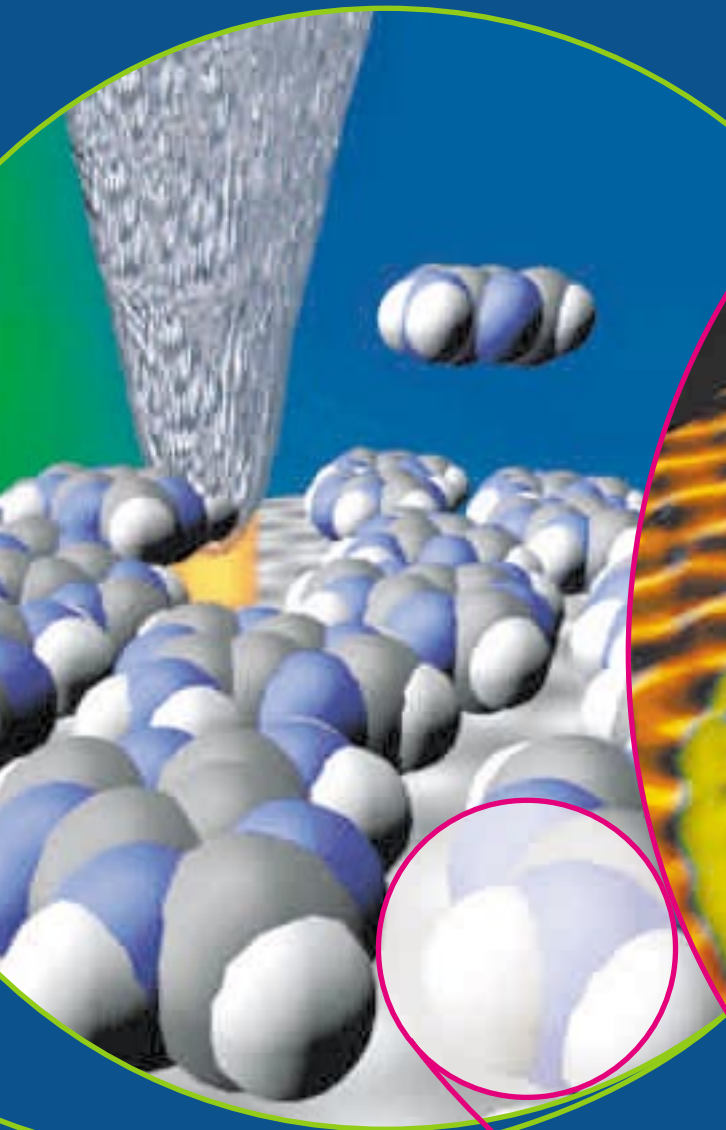
### Chromosomes

are the core of all life. They carry in them the genotype in the form of deoxyribonucleic acid (**DNA**).

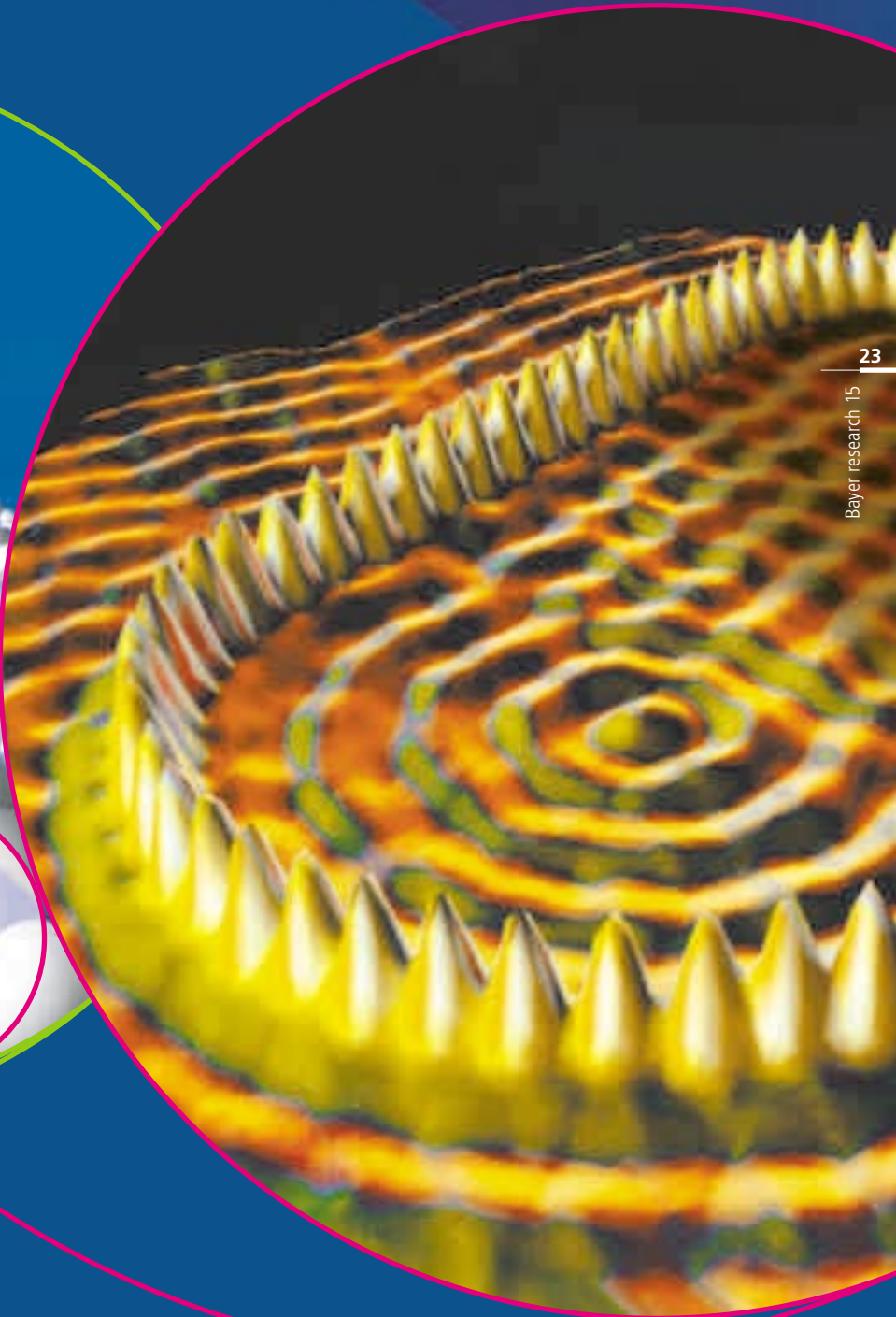
**DNA** determines all the vital functions of humans, animals and plants. It is a chemical **molecule** in the form of a double helix.

The DNA **molecule** consists of only four different elements – one of which, **adenine** is visible here as a mountain in the genetic landscape.

The voyage into the nanocosmos is opening up completely new worlds to researchers. The tiny dimensions involved challenge the limits of human imagination and bring new forces into play. Bayer researchers are also venturing into these new dimensions. Nanotechnology is no utopia but has already found its way into our daily lives. But this represents only a tiny fraction of the ways in which the technology could benefit us in the future.



Selective molecular manipulation is carried out on **adenine**. The principle could open up completely new prospects for the treatment of diseases. The next step leads to the **atom**.



In the future, nanotechnology researchers want to selectively assemble individual **atoms** to form new structures, as here with the ring of iron atoms.