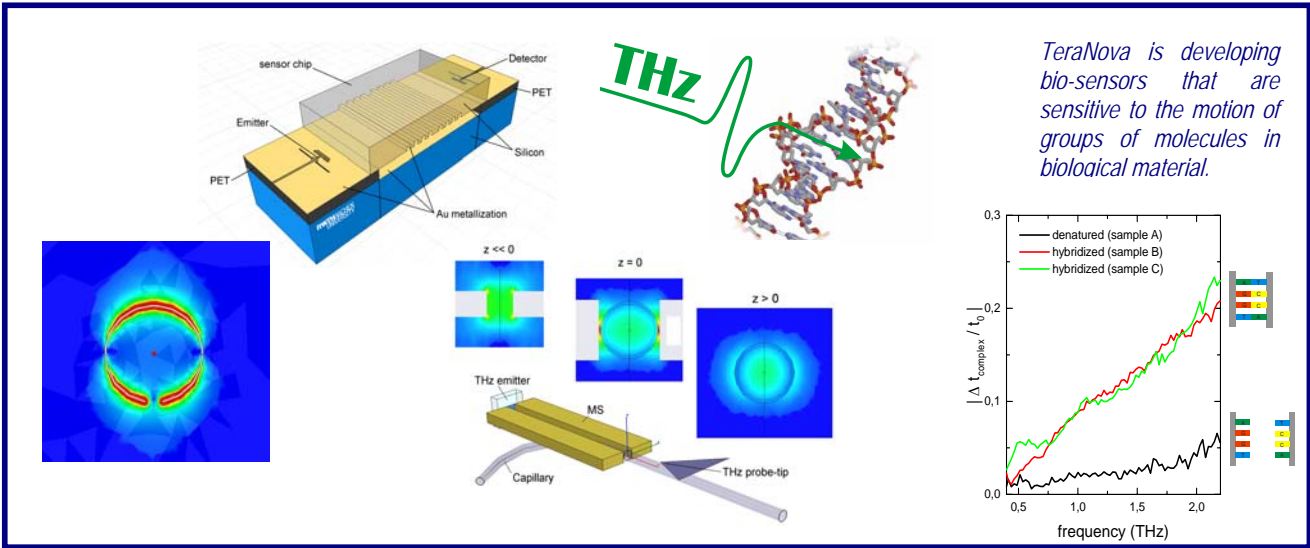


# Proof of Principle Demonstrators

TeraNova is developing a number of *first-stage* Demonstrators. Two of these are shown below. They embody a number of specific technical advances that have been made in the TeraNova Project and have a variety of potentially significant applications.

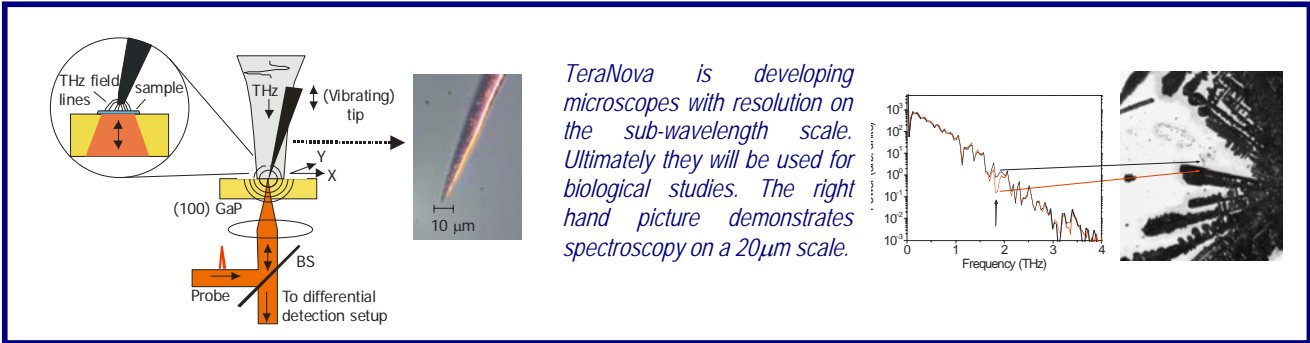
## Terahertz Tools for Bio-analysis

- ❖ THz waves are directly capable of identifying responses related to the intrinsic binding-state of biomolecules without the use of toxic chemical labels. This opens the way to a range of future biotechnology applications using THz bio-sensors.



## Terahertz Microscope for Bioscience

- ❖ At present we are almost “blind” to the properties of small scale natural objects, such as cells, at THz frequencies. If a microscope could be developed then a huge amount of information could be revealed of enormous potential benefit for medicine and therapeutics.



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