IIT-H researchers develop tools to detect renal cancer

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Apart from this, when a tissue sample is taken for biopsy (if it is known beforehand it is taken but of some origins cannot be ascertained), IIT-H researchers have managed to show that there can be different sites of origin in renal cancer.

The IIT-H research team has been able to classify 90 different cancers using histological images from the US government-funded Cancer Genome Atlas Project.

Dr. Vinod, who is also the Convenor for Computational Natural Sciences and Bioinformatics, said, "Apart from the above, models are also being developed to identify the presence of lymph nodes in patients who have undergone surgery for other reasons, apart from cancer. These models can help in determining the survival chances of patients using digital images. The study conducted by the researchers revealed that the neural network, over 10 percent accuracy in determining whether the histological images represented a tumor and the presence of lymph nodes, thereby helping in determining its subtype. Unlike manual microscopic analysis which takes a considerable amount of effort and time, the machine makes possible timely detection and diagnosis of cancer be added. A machine can also interpret images from the biopsies of patients who have undergone surgery for other reasons, apart from cancer."