

# Personalized Treatment for Brain Cancer



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## CURRENT RESEARCH

### Translational Research on Glioblastomas

Tumors are unique genetically, which makes it difficult to predict how effective any one drug or treatment will be on a specific tumor. This means that a customized approach, like Dr. Kesari's, has the best chance for better outcomes. The overall goal of the lab's research is to improve precision medicine and immunotherapy approaches for brain cancers and neurological disorders. This research could improve survival and lower brain toxicity in affected patients.


At the Pacific Neuroscience Institute (PNI) and John Wayne Cancer Institute (JWCI), Dr. Kesari examines specimens from patients in clinical trials. Translational research like this, where surgeons and researchers are working together to customize treatment plans for patients with brain cancers, requires a great deal of manpower, resources, and speed in order to make a difference for patients. Time is of the essence when typical outcomes are this poor.

While killing cancer, Dr. Kesari, as part of the teams of PNI and JWCI, has contributed to research on neurotoxicities (chemobrain, fatigue, peripheral neuropathy, memory loss, hydrocephalus, etc) of cancer treatments like surgery, radiation, chemotherapy and immunotherapy in order to prevent them. Some of this research has been expanded and applied to other areas of neurological disorders including Alzheimer's, Parkinson's, multiple sclerosis, and other neurodegenerative diseases, peripheral neuropathy, leading to developing a Brain Health Program for healthy brain aging as well as early cancer detection.

Dr. Kesari and his colleagues work toward their goals with three levels of research:

1. Basic lab research looking at what makes cancers...

## AFFILIATION

 Pacific Neuroscience Institute

## EDUCATION

- MD, PhD, University of Pennsylvania
- BA, University of Pennsylvania

## RESEARCH AREAS

Life Science, Neurological / Cognitive, Oncology / Cancer, Drug Development

## FUNDING REQUEST

Dr. Kesari needs your help to raise \$1,000,000 for new drug development research. With the funding, in 12 months PNI and JWCI will be able to identify a lead candidate drug for the Investigational New Drug development phase of FDA planned human clinical trials for pediatric brain cancer and for neurological disorders.

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