MEMORIAL HOSPITAL RESEARCH LABORATORIES

The Viviane Tabar Lab

Research

Viviane Tabar, MD

Professor

I am a neurosurgeon-scientist and Chair of the Department of Neurosurgery. I have clinical expertise in the surgical management of brain tumors such as complex gliomas, meningiomas, and skull base tumors.

The lab is focused on two major themes: harnessing the potential of human pluripotent stem cells for brain repair and tumor modeling and studying glioma biology with a focus on tumor cell heterogeneity and the microenvironment.

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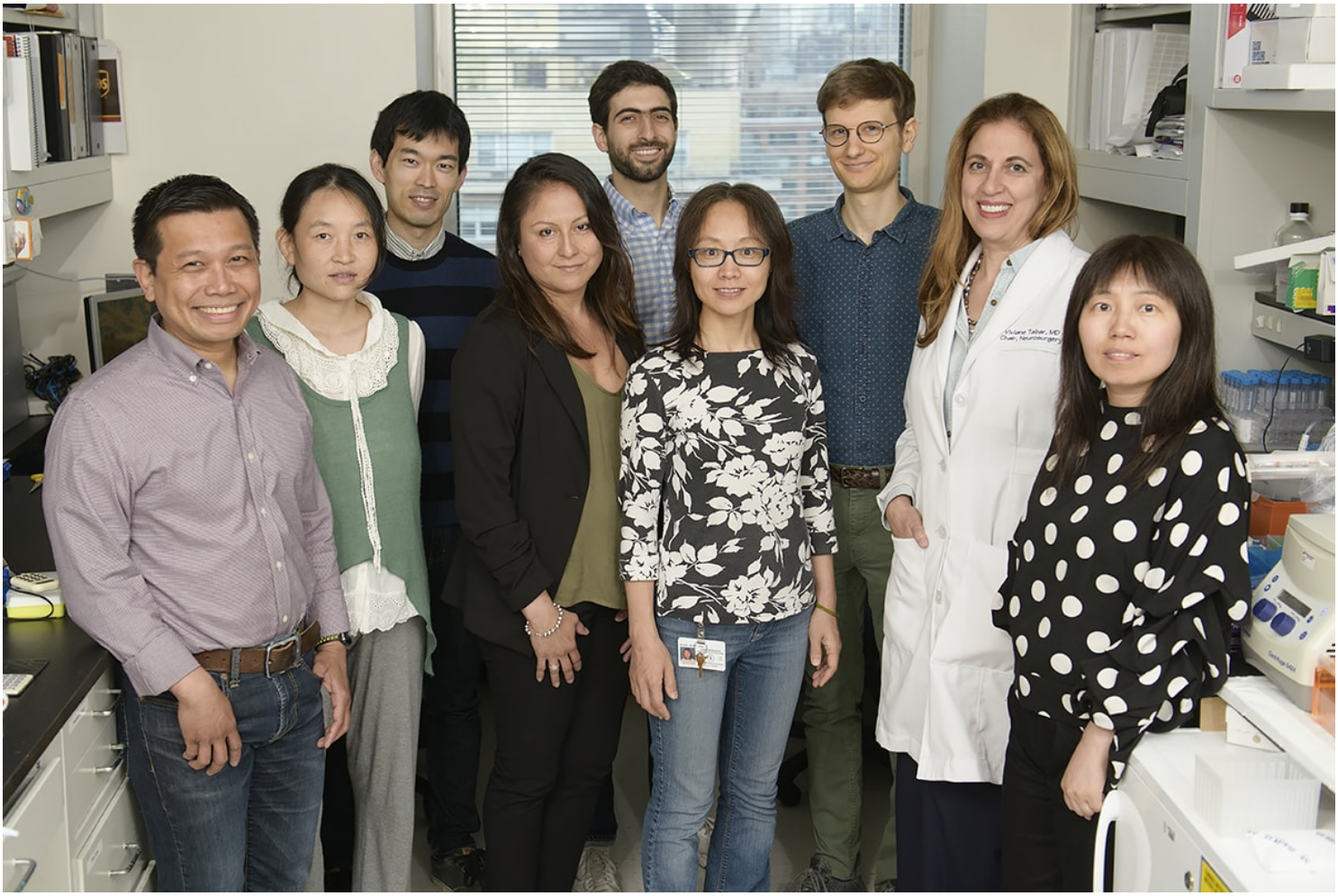
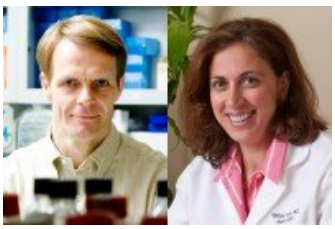
Research Projects

- Human ES cells as a platform for modeling brain tumors
- Human ES-derived grafts for repair of radiation injury



Featured News

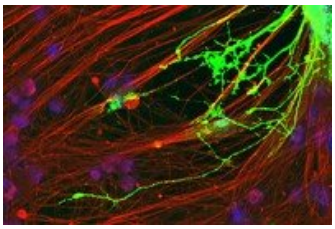


Upcoming Clinical Trial Will Test New Cell Therapy for Parkinson's Disease in Humans

Study will be the first clinical trial testing an investigational stem cell therapy aimed at restoring lost

brain cells called neurons in people with advanced Parkinson's disease (PD).

IN THE LAB



[Can Stem Cells Be Taught to Repair a Radiation-Damaged Brain?]

In a recent study, Memorial Sloan Kettering scientists used stem-cell engineering to repair brain injuries in rats. The results raise hope for future therapies that could prevent or fix nerve damage in cancer patients who need brain radiation.

IN THE LAB

[Investigators Use Stem Cells to Study Rare Pediatric Brain Tumors]

Investigators have created the first-ever genetically engineered model of cancer made from human embryonic stem cells in culture.

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Publications Highlights

Berlin C, Lange K, Lekaye HC, Hopland K, Phillips S, Piao J, Tabar V. Long-term clinically relevant rodent model of methotrexate-induced cognitive impairment. *Neuro Oncol.* 2020 April 2; 22(8): 1126-1137PMCID: PMC7594568.

Dincer Z, Piao J, Niu L, Ganat Y, Kriks S, Zimmer B, Shi S, Tabar V, Studer Let al. Specification of functional cranial placode derivatives from human pluripotent stem cells. Cell Rep. 2013;5(5):1387-1402. PMCID: PMC3887225

Funato K, Major T, Lewis PW, Allis CD, Tabar V. Use of human embryonic stem cells to model pediatric gliomas with H3.3K27M histone mutation. *Science.* 2014 Dec 19;346(6216):1529-33. PMCID: PMC4995593

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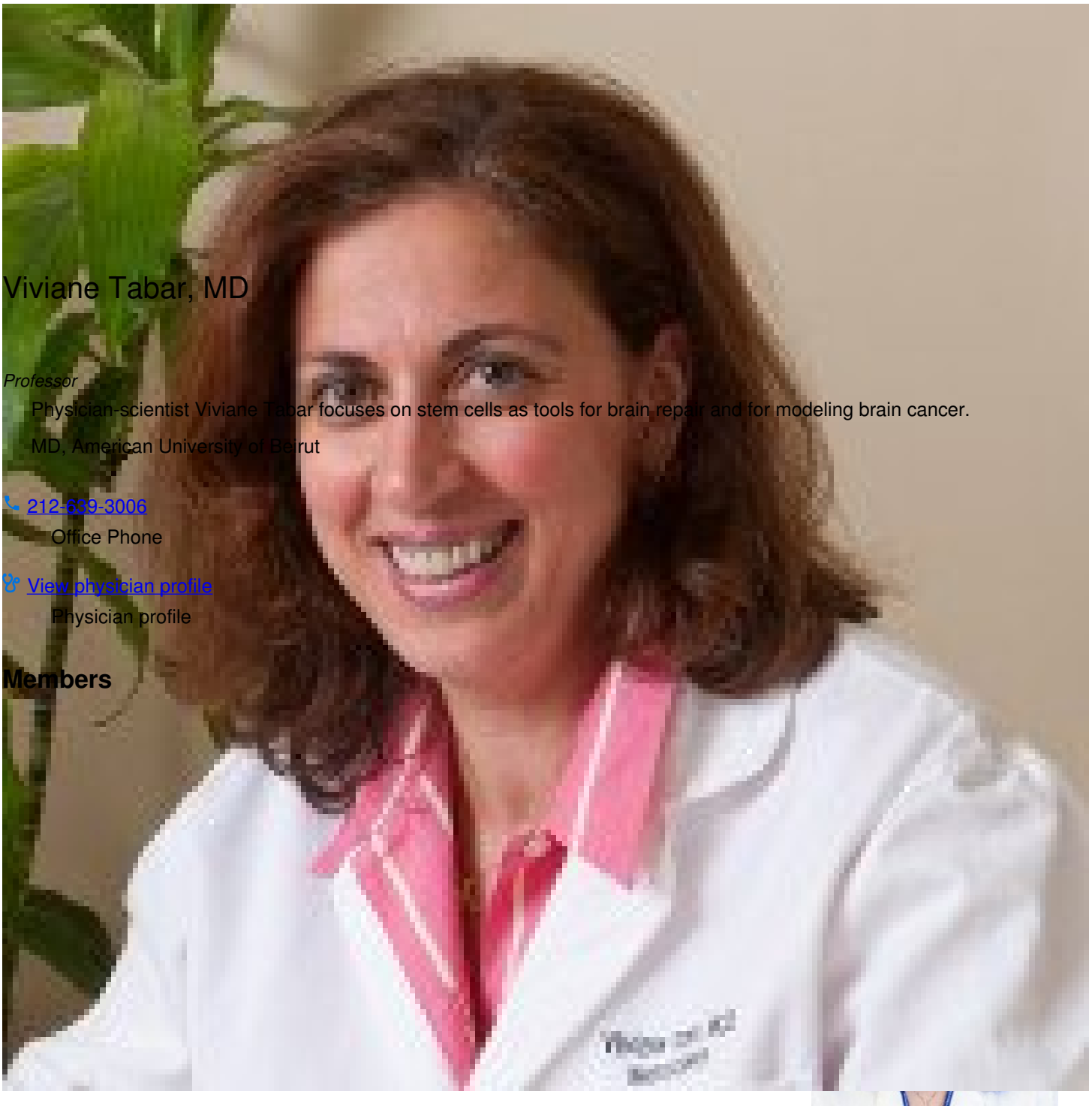
People



Viviane Tabar, MD

Professor

Physician-scientist Viviane Tabar focuses on stem cells as tools for brain repair and for modeling brain cancer.

MD, American University of Beirut

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Members

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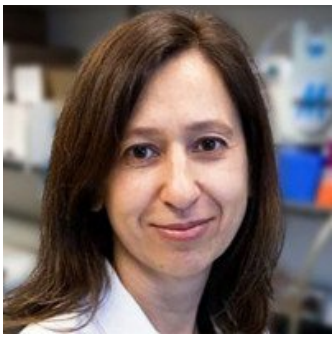
Research Technician



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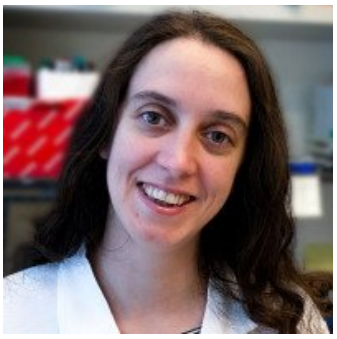
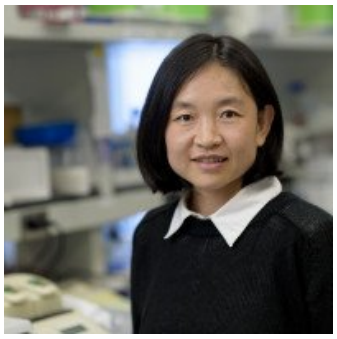


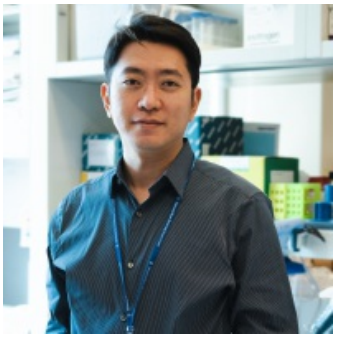
Lucia Ruiz Perera

Research Fellow



Yanhong Yang

Research Scholar



Kenny Kwok Hei Yu

Instructor, Dept. of Neurosurgery

Lab Alumni
+

Lab Affiliations
+

Achievements

- Allis Lab
- Studer Lab
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Viviane Tabar discloses the following relationships and financial interests:

American University of Beirut
Fiduciary Role / Position

BlueRock Therapeutics
Professional Services and Activities

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