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Autopsy Tissue Needs

**Laboratory of David Zagzag, M.D., Ph.D.
NYU Langone Medical Center**

Research Interests

Our laboratory focuses on the mechanisms of cerebral vasculogenesis, angiogenesis and glioma invasion. We seek to elucidate the expression patterns, trigger mechanisms, pathophysiological and molecular mechanisms that are related to these processes, especially as they relate to hypoxia. For example, the lab is investigating the role of tumor hypoxia in relation to anti-angiogenic therapy with bevacizumab (Avastin®). To study the biological properties of invading glioma cells at the molecular level, the lab has successfully developed an animal model which allows them to reliably identify invading glioma cells into the brain adjacent to the main tumor mass. For example, this model is being used to investigate new therapeutic strategies.

Selected publications

Caseiras, Gisele B; Sophie Cheang, James Babb, Jeremy H. Rees, Nicole Peccerelli, Daniel J. Tozer, Christopher Benton, David Zagzag, Glyn Johnson, Adam D. Waldman, H. R. Jager, and Meng Law. "Relative Cerebral Blood Volume Measurements of Low-Grade Gliomas Predict Patient Outcome in a Multi-Institution Setting." *European Journal of Radiology*. 73: 215 (2010).

Esencay M., E. W. Newcomb, and D. Zagzag. "HGF Upregulates CXCR4 Expression in Gliomas via NF-kappaB: Implications for Glioma Cell Migration". *Journal of Neuro-Oncology*. 99: 33 (2010).

Mendez, Olga, Jiri Zavadil, Mine Esencay, Yeveniy Lukyanov, Daniel Santovasi, Shu-Chi Wang, Elizabeth W. Newcomb and David Zagzag. "Knock Down of HIF-1Alpha in Glioma Cells Reduces Migration In Vitro and Invasion In Vivo and Impairs Their Ability to Form Tumor Spheres." *Molecular Cancer*. 9:133 (2010).

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We are in need of frozen samples for all pediatric brain tumor diagnoses.

Contact Information

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