

KIDS **V** CANCER

Changing the landscape of pediatric cancer research.

www.kidsvcancer.org

Autopsy Tissue Needs

**Laboratory of Cynthia Hawkins, M.D., Ph.D., and Ute Bartels, M.D.
Hospital for Sick Children (Toronto)**

Research Interests

As part of a group dedicated to the study of brain cancer, our lab is studying the genetic changes underlying diffuse intrinsic pontine glioma (DIPG) in order to develop new treatment strategies. No improvements in survival of children with DIPG have been achieved, despite all best efforts. Initial results in Dr. Cynthia Hawkins' lab suggest potential targets for treatment, and that genetic differences in children suffering from DIPG may predispose them to the disease. We are using state-of-the-art, high-resolution genetic techniques to look at these children's normal and tumor DNA for clues to the cause of their cancer and to identify what is driving their tumors. We are testing the effect of these genes on both normal cells and cancer cells to see what can stop the cancer cells from growing and invading. Our hope is to develop new therapies.

Selected publications

Angelini Paola, Cynthia Hawkins, Normand Laperriere, Eric Bouffet, and Ute Bartels. "Post Mortem Examinations in Diffuse Intrinsic Pontine Glioma: Challenges and Chances." *Journal of Neuro-Oncology* (May 16, 2010).

Bouffet, Eric, Uri Tabori, Annie Huang, and Ute Bartels. "Possibilities of New Therapeutic Strategies in Brain Tumors." *Cancer Treatment Reviews* 36 no. 4 (June 2010): 335-41.

Zarghooni, Maryam, Ute Bartels, Eric Lee, Pawel Buczkwicz, Andrew Morrison, Annie Huang, Eric Bouffet, and Cynthia Hawkins. "Whole-Genome Profiling of Pediatric Diffuse Intrinsic Pontine Gliomas Highlights Platelet-Derived Growth Factor Receptor Alpha and Poly (ADP-Ribose) Polymerase as Potential Therapeutic Targets." *Journal of Clinical Oncology* 28, no. 8 (March 10, 2010): 1337-44.

Autopsy Tissue Needed

We are in need of fresh-frozen tissue for the following diagnosis: Diffuse Intrinsic Pontine Glioma.

Contact Information

Dr. Cynthia Hawkins, M.D., Ph.D.

Email: cynthia.hawkins@sickkids.ca

Dr. Ute Bartels, M.D.

Email: ute.bartels@sickkids.ca

Phone: 416-813-5938

Phone: 416-813-5249