Beat Childhood Cancer RESEARCH CONSORTIUM

2023 YEAR IN REVIEW

Learn more about the Beat Childhood Cancer Research with your smartphone camera:







Beat Childhood Cancer Research Consortium relocates to Penn State College of Medicine

The Research Consortium has moved to Hershey, Pennsylvania! In September, 2023, the Research Consortium was welcomed to its new home—Penn State College of Medicine. Dr. Sholler took on new roles, as the director of pediatric oncology research at the College of Medicine, and division chief of pediatric hematology/oncology at Penn State Health Children's Hospital. The value of housing the consortium within an academic medical center is unmatched! Here, we can combine the pillars of research and care to advance knowledge, drive medical discoveries and change lives!

We have already started leveraging the amazing work from preclinical laboratories at Penn State to translate cutting-edge research into clinical trials for patients in 2024!



Beat Childhood Cancer Research Consortium research leads to approval from U.S. Food and Drug Administration

DFMO/Eflornithine (now iwilfin) approved

Elfornithine (iwilfin) has been granted FDA approval to reduce the risk of relapse in adult and pediatric patients with high-risk neuroblastoma (HRNB) who have had at least a partial response to prior multiagent, multimodality therapy including anti-GD2 immunotherapy. This regulatory decision was based on findings from a controlled trial comparing outcomes from Study 3b (NCT02395666; investigational arm) and Study ANBL0032 (clinical trial-derived external control arm). Previously, in October, 2023, the FDA's Oncologic Drug Advisory Committee (ODAC) voted 14 to 6 that effornithine shows sufficient evidence to reduce the risk of relapse in pediatric patients with HRBN who are in remission and have completed multi-agent, multi-modality therapy.

We are so excited for patients across the country to have access to this medication and want to thank all the researchers. sites and collaborators that helped make this amazing accomplishment a reality!

2023 | BY THE NUMBERS

Patients enrolled on treatment studies across 7 clinical trials





Patients enrolled on BCC-BIO-001 biology clinical trial



Cell lines established by POTR lab





Number of patient samples that came to the POTR Lab in 2023



Passed FDA inspections at the Sponsor, Site and Vendor Levels







2023 | PUBLICATIONS

BCC publications

Molecular-guided therapy for the treatment of patients with relapsed and refractory childhood cancers: A Beat Childhood Cancer Research Consortium Trial

Beat Childhood Cancer

RESEARCH CONSORTIUM

GOALS FOR 2024 AND BEYOND

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A MESSAGE FROM OUR FOUNDER

We welcome everyone to our 16th BCC Annual Consortium Meeting!

As we reflect on the past year, I am filled with immense pride and gratitude for the incredible strides we have made in our mission to bring hope to families facing the challenges of childhood cancer. Our commitment to pioneering research and identifying innovative therapeutic options, particularly in the realm of precision medicine, has been unwavering. The heart of our success lies in the collaborative spirit that defines the Beat Childhood Cancer family.

Physicians, researchers, nurses, parents, advocates, foundations and partners in the pharmaceutical and biotech industries have come together, united by a singular goal: to enhance the chances of survival for children with cancer through the development of safer and less toxic therapies. Our consortium is not just an alliance of professionals; it's a community fueled by compassion, resilience and a relentless pursuit of better outcomes for young lives.



Above: Dr. Giselle Saulnier Shollel and team in her lab at Penn State College of Medicine



Several important goals of the Beat Childhood Cancer Research Consortium will guide our collective work in 2024 and beyond:

- Open trial combining DFMO and AMXT-1501 for relapsed/refractory neuroblastoma, sarcomas, atypical teratoid rhabdoid tumor (ATRT), embryonal tumor with multilayer rosettes (ETMR) and newly diagnosed diffuse intrinsic pontine glioma (DIPG).
- Open trial utilizing Casein kinase 2 (CK2) inhibitor for relapsed/ refractory neuroblastoma, sarcomas and other solid tumors.
- Open trial combining Tipifarnib + naxitamab for relapsed/refractory neuroblastoma.
- > Present abstracts at AACR, ASPHO, SIOP, APHON and more!
- > Continue to expand our Precision Medicine Program.
- Continue to expand our preclinical work for neuroblastoma, sarcomas and central nervous system tumors to include four mouse studies in 2024 in addition to many in vitro experiments.
- Expansion of our BCC018 upfront Neuroblastoma Trial incorporating Naxitamab during induction across BCC sites.



2023 | PRESENTATIONS

American Association for Cancer Research (AACR)

Molecular-guided therapy for the treatment of relapsed neuroblastoma: A Bea

Cancer Research Consortium Trial

Comparative validation of neuroblastoma cell lines using flow cytometry and CyToF

The anti-tumor effects of GSK-3ß inhibitor (9-1NG-41) in ETMR and ATRT pediatric brain tumors

Association of Pediatric Hematology/Oncology Nurses (APHON)

EFS and OS in Study 3b Patients with High-Risk Neuroblastoma Receiving Eflornithine (DFMO) Maintenance Treatment with Matched External Controls

International Society of Paediatric Oncology (SIOP)

Sensitivity Analysis of Event Free and Overall Survival in High-Risk Neuroblastoma Patients Receiving DFMO Maintenance Treatment with Matched External Controls Including MYCN

Tolerability and Safety of Eflornithine (DFMO) in High-Risk Neuroblastoma Patients Treated with DFMO Maintenance Therapy

Mice Sensitivity Analysis of Event Free Survival in High-Risk Neuroblastoma Patients Receiving Eflornithine (DFMO) Maintenance Treatment with Matched External

Advances in Neuroblastoma Research (ANR)

Molecular-Guided Therapy for the Treatment of Relapsed/Refractory Neuroblastoma:

Tolerability and Safety of Eflornithine (DFMO) in High-Risk Neuroblastoma (HRNB) Patients Treated with DFMO Maintenance Therapy

Subset Analysis of the role of MYCN in DEMO treated patients

Sensitivity Analyses of Event Free and Overall Survival in High-Risk Neuroblastoma Patients Receiving Eflornithine (DFMO) Maintenance Treatment with Matched External Controls

