



**2021 IMPACT REPORT**



a note from our CEO

THANK YOU

Your generosity is critical in sustaining our mission. Thank you for helping fight childhood cancer with **love!**

**2021** – a tapestry of events and influences that challenged and asked “what do we choose to believe and do?” We choose art and science, and **pablove** for these precious kids who suffer from cancer through the turmoil of the past year.

Pablove entered 2021 **well-prepared** for more virtual programming. We worked through the disappointment of canceling our in-person Shutterbugs classes and summer camp, yet our constant thirst for learning how to do things **better** fueled real **progress**. Some highlights include:

- ♥ Shutterbugs classes were well attended and our evaluation program produced its first results
- ♥ Powered by Pablove researchers attracted more publications and more funding, bringing our research ROI to **384%**
- ♥ Both of our time-tested art + science programs celebrated their **10th** birthday!
- ♥ **Pablove Across America** 2021 was a success, raising 2nd highest funds in event history!
- ♥ New partner **Eliel Cycling** named us their charity beneficiary, highlighting our mission at every BBR event across the country

BBR stands for **Breakfast Burrito Ride**, part of the **Belgian Waffle Ride** --- the most unique cycling event in the U.S.

A big contributor to our fundraising result was our only in-person event: **Pablove Across America**, held in beautiful Bend, Oregon. Despite reduced attendance, fundraising was the **2nd highest** in the event’s history, surpassed only by 2018's milestone 10-year celebration.

Fundraising continued to call for more innovation and increased by **15%** from 2020. We were lucky to be awarded a second payroll protection loan, which we used in part to add a new Corporate Sponsorship position. Our new colleague is making great strides developing underwriting and other corporate opportunities.

**In a nutshell, we added more diversity, knowledge and perspectives all around in support of our mission.**

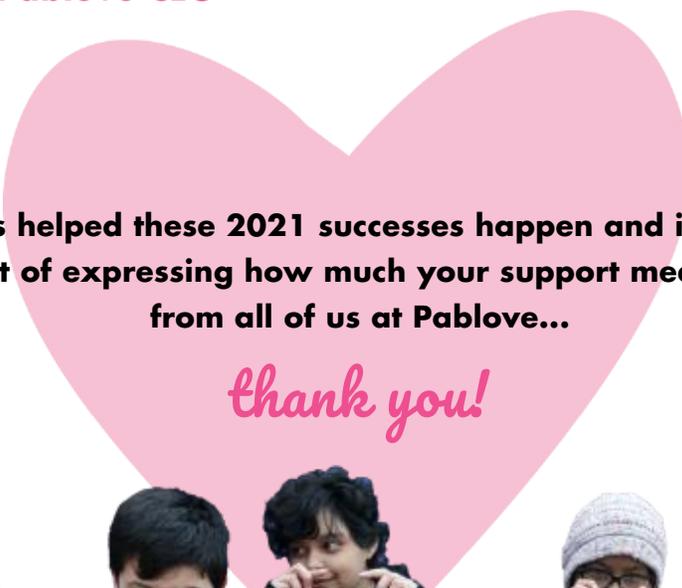
And so we continue our drive to add more **joy + hope** for pediatric cancer families.

There are still too many kids being diagnosed with cancer and our work must go on so that one day we can follow the horrible statement of **“your child has cancer”** with **“and we have a cure for that”**.

**with gratitude,**



**Kerstin Lynam, Pablove CEO**



**Your gifts helped these 2021 successes happen and if words fall short of expressing how much your support means --- from all of us at Pablove...**

*thank you!*





Powered by *Pablove*

RESEARCH  
IMPACT

this laboratory is  
*powered by*  
**pablove**

**P**   
Dr. Amy K Erbe  
The Pablove Foundation  
Childhood Cancer Research Grant Recipient  
2021-2022



# Powered by Pablove

In 2021, our Powered by Pablove Childhood Cancer Research Grants program was successful in new ways. We awarded 2 new grants in addition to 5 ongoing grants.

## 2021 Research Grant Recipients

### Amy Erbe-Gurel PhD

Studying: Neuroblastoma



### Delfim Duarte MD PhD

Studying: Acute Myeloid Leukemia



### Natalie Wu PhD

Studying: Malignant Peripheral Nerve Sheath Tumor



### Thais Armangué MD PhD

Studying: OMS



## Additional Active Research Projects Supported by The Pablove Foundation:



**Vicki Huff, PhD, University of Texas M.D. Anderson Cancer Center:**

Assessment of a Cancer Preventive Agent for Wilms Tumor



**Alexandra Stevens, MD, PhD, Texas Children's Hospital:**

Predicting Atovaquone-Induced Apoptosis in Pediatric AML



**Laura Perin, PhD, Children's Hospital Los Angeles:**

Cancer Stem Cells in Wilms Tumor

Powered by **Pablove**

10 YEARS

CELEBRATING INNOVATION

Over a decade of powering hope for better treatments and a cure

In ten years, our research program has yielded impressive results:



first grant awarded



renewals awarded  
(extra \$100K for 2 yrs)



award amount for  
1 year funding



number of institutions  
awarded worldwide

since 2011,  
Pablove has funded

50

childhood cancer  
research grants



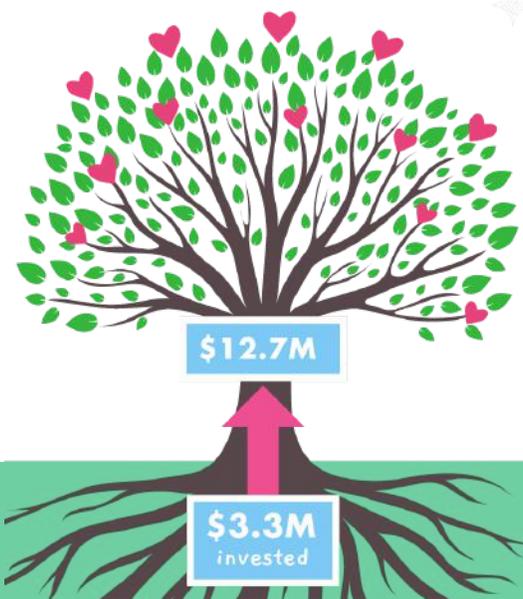
...LOOK HOW THEY'VE GROWN!

From the \$3.3M invested in Powered by Pablove research grants, an additional \$12.7M has been raised by our grantees to continue their projects, resulting in a total research impact of:

\$16M

(384% ROI since 2011)

This is remarkable as competition for major funding is fierce and awarded to the **best** of the best. **YOU** helped them get there!



## HUGE NEWS: PABLOVE RESEARCHERS WIN MAJOR AWARDS

Several researchers surprised us with extension funding. Here's one...

Dr. Grant Rowe was awarded **\$800,000** from the Department of Defense to continue his innovative research project started by one of our seed grants.

Dr. Rowe's research focuses on acute lymphoblastic leukemia (ALL), one of the most common types of cancer in children. It affects certain cells in the immune system, called B cells and T cells.

His team at Boston Children's Hospital successfully identified leukemia stem cells in a very unfavorable form of pediatric ALL and **defined** their molecular properties. As a result of this project, they have found a potential **new approach** to therapy!



Grant Rowe, MD, PhD  
Boston Children's Hospital

When his Pablove funding concluded in 2020, Rowe leveraged his Pablove data to earn this career-changing \$800,000 DoD grant.



**Department of Defense** awards, like NIH awards, are extremely difficult to secure and only the best-in-class scientists are successful in garnering this prestigious support



### HOT OFF THE PRESS: MORE MEASURES OF SUCCESS

In addition to extension funding, peer-reviewed publications based on work initially funded by Pablove grants represent meaningful measures of success.

In research, results and learnings are shared not only within the researchers' own lab and institution, but more importantly, internationally through publication in peer-reviewed medical journals, which often go hand-in-hand with conference sessions and other presentations.

**We are proud to present our list of 2021 peer reviewed publications...**



## 2021 PEER REVIEWED PUBLICATIONS

- Meany HJ, Widemann BC, Hinds PS, Bagatell R, Shusterman S, Stern E, Jayaprakash N, Peer CJ, Figg WD, Hall OM, Sissung TM, Kim A, Fox E, London WB, Rodriguez-Galindo C, Minturn JE, Dome JS. Phase 1 study of sorafenib and irinotecan in pediatric patients with relapsed or refractory solid tumors. *Pediatr Blood Cancer.* 2021 Nov;68(11):e29282. doi: 10.1002/pbc.29282. Epub 2021 Aug 12. PMID: 34383370.
- Del Vecchio F, Martinez-Rodriguez V, Schukking M, Cocks A, Broseghini E, Fabbri M. Professional killers: The role of extracellular vesicles in the reciprocal interactions between natural killer, CD8+ cytotoxic T-cells and tumour cells. *J Extracell Vesicles.* 2021 Apr;10(6):e12075.
- Cocks A, Del Vecchio F, Martinez-Rodriguez V, Schukking M, Fabbri M. Pro-tumoral functions of tumor-associated macrophage EV-miRNA. *Semin Cancer Biol.* 2021 Aug.
- Cocks A, Martinez-Rodriguez V, Del Vecchio F, Schukking M, Broseghini E, Giannakopoulos S, Fabbri M. Diverse roles of EV-RNA in cancer progression. *Semin Cancer Biol.* 2021 Jan 10.
- Alt J, Gori SS, Lemberg KM, Pal A, Veeravalli V, Wu Y, Aguilar JMH, Dash RP, Tenora L, Majer P, Sun Q, Slusher BS, Rais R. Glutamine Antagonist GA-607 Causes a Dramatic Accumulation of FGAR Which Can be Used to Monitor Target Engagement. *Current Drug Metabolism.* 2021 Aug 31. Epub ahead of print.
- Kumar, S., Giblin, W., and Lombard, D.B. (2021). Sirtuins, Healthspan and Longevity in Mammals. *Handbook of the Biology of Aging, 9th edition.*
- Aumann WK, Heath JL, Conway AE, Sze SK, Gupta VK, Kazi RR, Tope DR, Wechsler DS, Lavau CP. Fusion of the CRM1 nuclear export receptor to AF10 causes leukemia and transcriptional activation of HOXA genes. *Leukemia.* 2021 Mar;35(3):876-880.
- Xu A, Huang MF, Zhu D, Gingold JA, Bazer DA, Chang B, Wang D, Lai CC, Lemischka IR, Zhao R, Lee DF. lncRNA H19 Suppresses Osteosarcomagenesis by Regulating snoRNAs and DNA Repair Protein Complexes. *Front Genet.* 2021 Jan 15;11:611823.
- Chiang YT, Chien YC, Lin YH, Wu HH, Lee DF†, Yu YL†. The Function of the Mutant p53-R175H in Cancer. *Cancers (Basel).* 2021 Aug 13;13(16):4088.
- Xiong F, Wang R, Lee JH, Li S, Chen SF, Liao Z, Hasani LA, Nguyen PT, Zhu X, Krakowiak J, Lee DF, Han L, Tsai KL, Liu Y, Li W. RNA m6A modification orchestrates a LINE-1-host interaction that facilitates retrotransposition and contributes to long gene vulnerability. *Cell Res.* 2021 Aug;31(8):861-885.
- Petit-Pedrol M, Guasp M, Armangue T, Lavarino C, Morales La Madrid A, Saiz A, Graus F, Dalmau J. Absence of GluD2 Antibodies in Patients With Opsoclonus-Myoclonus Syndrome. *Neurology.* 2021 Feb 16;96(7).
- Landa J, Guasp M, Míguez-Cabello F, Guimarães J, Mishima T, Oda F, Zipp F, Krajinovic V, Fuhr P, Honnorat J, Titulaer M, Simabukuro M, Planagumà J, Martínez-Hernández E, Armangué T, Saiz A, Gasull X, Soto D, Graus F, Sabater L, Dalmau J; GluK2 encephalitis study group. Encephalitis with Autoantibodies against the Glutamate Kainate Receptors GluK2. *Ann Neurol.* 2021 Jul;90(1):101-117.

# 34

TOTAL # PUBLICATIONS FROM PABLOVE FUNDED RESEARCH



**Your dollars make a real impact on Powered by Pablove research. Our funding is filling the pressing needs that fuel better diagnostic tools, less-toxic treatments, and ultimately --- a cure**

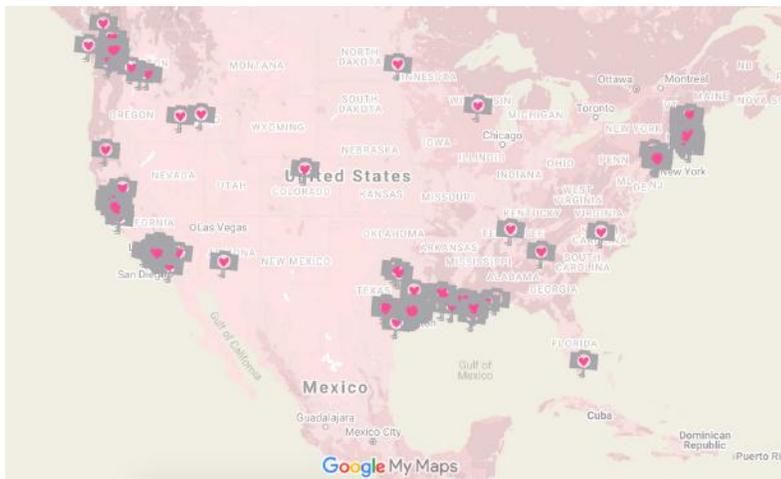


**pablove shutterbugs**

# P pablove shutterbugs

a program of the pablove foundation

2021 unfolded differently than we thought. Our perceptions needed to be redirected and, again, we made the call to only offer **virtual** programming. Building on the feedback from Shutterbugs families, our introductory classes changed **for the better** in 2021. Our virtual classes deliver smiles and giggles to these precious kids! The growth and innovation in the Shutterbugs program exemplifies who we are: **exploration and experimentation** is deeply ingrained and we take pride in **learning forward**.



each camera = location of a new student

195 kids served  
in 2021



And we will **do more**: we are connecting to more hospitals to recruit patients and embrace national resource guides to **publicize** the Shutterbugs program for kids living **anywhere**. What an important change for our program! Even though we will resume in-person programming when it is safe, **virtual programming is here to stay**.

## VIRTUALLY AWESOME! MORE ACCESS = MORE SHUTTERBUGS

We asked parents and Shutterbugs if they would be interested in a **virtual option** if there was also an in-person class in our 7 program cities:



We were astonished that **95%** of respondents said that they would definitely, probably, or maybe be interested in a virtual class **even if an in-person** option was available **at the same time**.



"It takes us 2 ½ hours to drive to NOLA, so in-person would be hard. But if we could do the class virtual again, [my son] would definitely be interested in participating."

"still under active chemotherapy, immunity-wise not so strong, so it's better to have it virtually"

"I would have liked an in-person program but due to COVID I wouldn't be comfortable with it."

"because we weren't sure about transportation to classes I love the online option!"

Many of the comments in favor of virtual classes centered around the students' treatment status. As a matter of fact, we observed more kids in active treatment participated -- especially in our fall session.



## Shutterbugs 2021 Virtual Class

can you spot the 3 kids participating from their hospital beds?





## GALLERY SHOWS GALORE!

The Pablove Shutterbugs program launched in 2011, so 2021 marked our **10 year birthday!** We celebrated this milestone throughout the year, and across the productions of four virtual gallery shows: California, Seattle, Boston, and the crowning jewel: our national **10 Year Gallery Show** event!

We revisited photos by former Shutterbugs and even got to watch video updates on where they are today. Many of our students remain active photographers with a commitment to philanthropy and giving back! You can view our **10 Year Gallery Show** image collection at our **Pablove Prints Shop** --- [pabloveprints.org](http://pabloveprints.org)



### a peek at some images from the shows



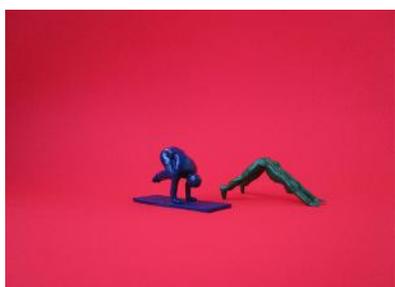
Cup of Me  
by Ciara, age 12



Untitled  
by Stella, age 13



The Car Actually Wins  
by Rio, age 6



Andy's Coming!  
by Dafne, age 17



What's For Lunch?  
by James, age 8



In the Shadows, I Hear Nothing  
by Olivia, age 12



# 2021 Shutterbugs Spotlights

meet some of the kids  
you're helping!

jaida

age 12, Kenosha, WI



Days after her 12th birthday, Jaida was diagnosed with high-risk b-cell leukemia.

**"Shutterbugs gave me something to look forward to --- connecting with kids that are going through the same thing as me and learning how to take cool pictures.**

**It's special because I express different feelings through the photos I take."**



jaida's photos



colby

age 10, Boston, MA



In 2020, just days after the COVID emergency closures, 9 year-old Colby was diagnosed with b lymphoblastic lymphoma.

A big lover of the arts, Colby was excited to enroll in Shutterbugs!

colby's photos



**"Shutterbugs was an important part of my cancer journey. I learned so many things about photography, it helped me express what I was feeling and it was a fun distraction from all my hard treatments. I love taking photos!"**



# 2021 Shutterbugs Spotlights

**tessa** age 9, Seattle, WA



At 5 years old, Tessa was diagnosed with leukemia. After nearly 3 years of treatment, she is now cancer-free!

During a hospital visit, she spotted the sign for Shutterbugs and was eager to join!

tessa's photos



**"The best thing about Shutterbugs is not only the fun, but seeing things in a different perspective. Always when I go out I bring my camera and never leave the house without it."**



**thevi** age 19, Los Angeles



In the midst of the pandemic, Thevi was a seemingly healthy teenager preparing for his sophomore year at Bard College when he began feeling fatigued and nauseous. Soon after, he received the surprising diagnosis — acute myeloid leukemia.

In the hospital, Thevi rediscovered an old hobby — photography.

thevi's photos



**"Photography was a way of accepting my situation because it was a way of documenting the constraints of where I was and kept me grounded in what I was doing."**

# THANK YOU

our generous donors + partners in 2021 include:



# CONTACT US

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[pablove.org](http://pablove.org)

the pablove foundation  
fighting childhood cancer with love

## **OUR NEW ADDRESS:**

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