One in a million, but not alone

Chordoma Foundation 2021 Annual Report



15 years of progress, connection, and hope

Fifteen years ago a handful of families affected by chordoma came together with the conviction that the options available to us weren't acceptable. We realized that by teaming up, we'd have a chance of creating a better future for those of us affected by this disease then and everyone who came next.

Today, what began around a dining room table has become an international movement. What started as an uphill battle has given rise to encouraging momentum. And what were once far-off dreams — like clinical trials, treatment guidelines, and access to the accumulated wisdom of fellow patients and leading doctors — have become reality. Together, we've changed much of what it means to face chordoma.

Yet the pressing need remains for better treatments.
In the years ahead, our sights are set on treatments that can prevent recurrence, eliminate tumors rather than just

slow their growth, and preserve patients' quality of life. And thankfully, snowballing advances provide ever more tangible reasons to believe this is not only possible but probable.

We're tremendously grateful to those whose encouragement, generosity, and belief in our potential have emboldened us from the beginning, and to those who have joined this quest every day since. Your commitment is bringing our shared vision to life.



JOSH SOMMER

Executive Director, Co-Founder, and chordoma survivor

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Dedication

This report is dedicated to the memory of Michael Torrey (1958-2021) whose belief in our collective ability to improve the outlook for all affected by chordoma helped set the Foundation's work in motion and build substantial momentum in our first fifteen years.

Since the Foundation's very first days, Michael's wholehearted support and generosity played an outsized role in our progress and impacted the lives of thousands of fellow patients. Michael is remembered for his big heart, good humor, and infectious optimism. As we continue our urgent mission, we carry with us Michael's determination to create a future in which all those affected by chordoma can get back to the life they love.



15 years of progress

Our vision is to bring about a future in which everyone affected by chordoma is able to overcome the disease and maintain their quality of life. With your help, we've come a long way.

	2007	Today	
Research	Virtually no research being done and no infrastructure to enable it	 Vibrant global research ecosystem \$15.8M in cumulative research investments, plus \$20M+ leveraged from others 300+ researchers collaborating toward a cure 	 30+ high-quality cell and mouse models easily available to scientists Tumor tissue from 250+ patients banked for research 25+ disease drivers and therapeutic targets revealed
Treatments	No movement toward new treatments	 Fast-moving therapeutic development pipeline 6,000 drugs screened against chordoma cell lines 	 70+ promising drugs and combinations tested in mice through our Drug Screening Program 7 treatments brought into clinical trials

15 YEARS OF PROGRESS

	2007	Today	
Diagnosis	Patients frequently misdiagnosed and mistreated due to limited clinical awareness	 Evidence-based guidelines for medical professionals diagnosing and treating chordoma 	• 215+ experienced doctors in our Doctor Directory
Support	Nowhere to turn for support and reliable information	 3,000+ families provided with free, personalized Patient Navigation Service to access expert care and get their questions answered 	 Comprehensive educational resources for patients and caregivers Numerous opportunities for people affected by chordoma to connect with peers
Influence	No way for those affected by chordoma to change the outlook	 Multiple ways to participate in research from donating tumor tissue to joining a natural history study or clinical trial 	Donations of all sizes can directly advance research and improve patient care

15 YEARS OF PROGRESS

What we've achieved so far is thanks to this unstoppable community. Here are just a few of the countless individuals whose passion and dedication have made a lasting mark on our organization and mission.



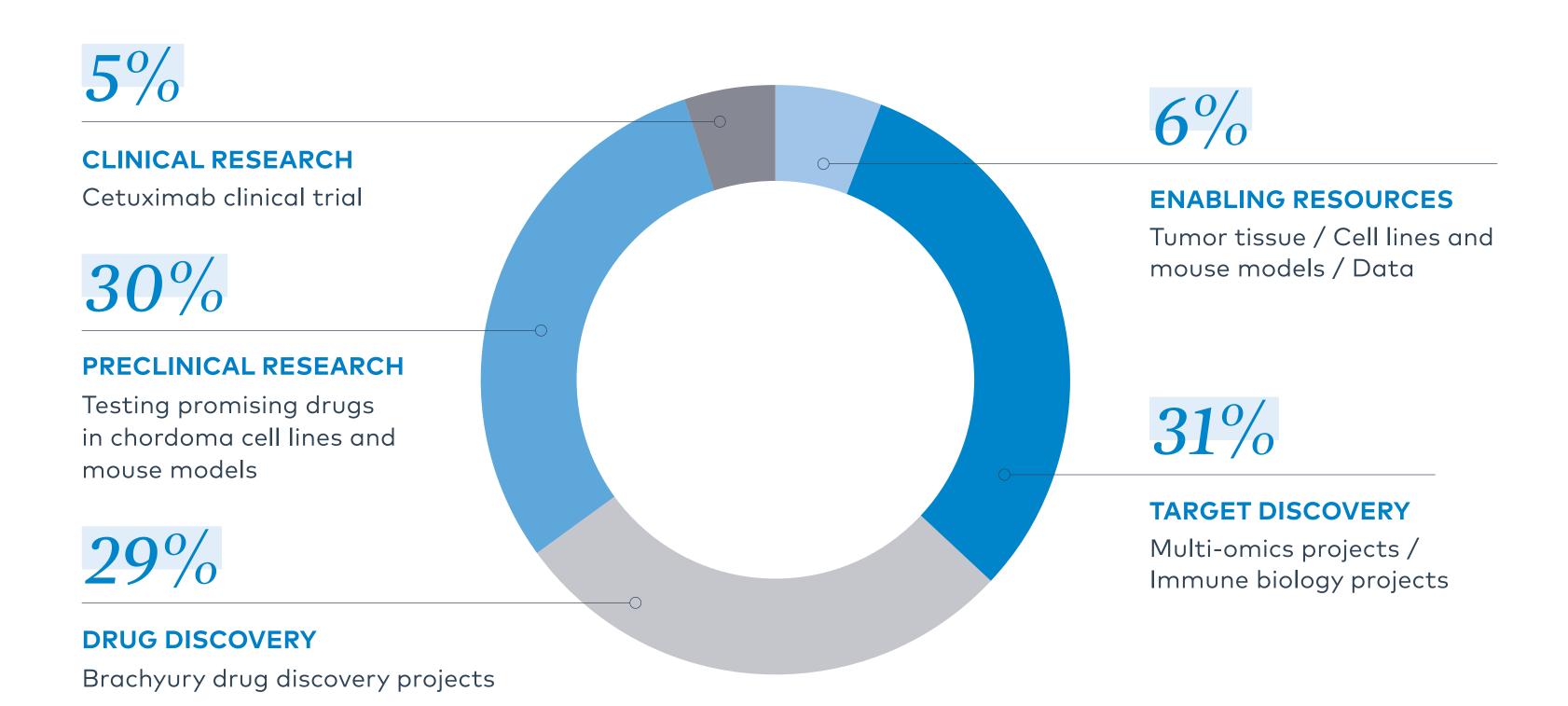
What does the Foundation's progress mean to me? It saved my life three times (so far).
It means my life."



Bill Dorland chordoma patient

Accelerating cures

In 2021 we invested in catalyzing progress across the entire spectrum of research needed to bring new therapies to chordoma patients.



\$2.51Minvested in research in 2021

14
currently funded
research teams

9 new research publications

Learning from the bigger picture

Like layers of a map, when snapshots of different types of molecules within cancer cells — like DNA, RNA, and proteins — are viewed together, a much more meaningful picture comes into focus. Known as "multiomics," this integration of data layers is key to fully understanding what drives chordoma tumors, how tumors differ across individuals, and whether certain patients are likely to benefit from different treatments.

This year, we supported three complementary multi-omics projects involving teams at New York University, the University of Minnesota, and Germany's National Center for Tumor Diseases. They're seeking to identify new therapeutic targets, uncover drivers of metastases, and determine whether there are relevant differences between tumors of various anatomic locations.



What's needed is a comprehensive view into the biology of chordoma tumors and how they vary across patients, and that's what we're aiming to generate. Our vision is to be able to tailor treatment approaches to the unique profile of each patient's tumor."



Dr. Stefan Fröhling

National Center for Tumor Diseases, Germany

Targeting chordoma's Achilles' heel

Encouraging progress continued in multiple labs toward the first drugs that strike at brachyury, the main Achilles' heel of chordoma. Notably, our grantees at the University of North Carolina, Oxford University, and The Institute of Cancer Research, London generated compounds that bind to brachyury an order of magnitude more potently than any previous compounds, including some that appear to suppress the brachyury protein in cells. We also initiated two projects applying powerful computational modeling approaches to further improve the potency of these compounds. The next step is to create compounds that can eliminate brachyury in mouse models and serve as a starting point for brachyury drug discovery programs within companies.



Dr. David Drewry

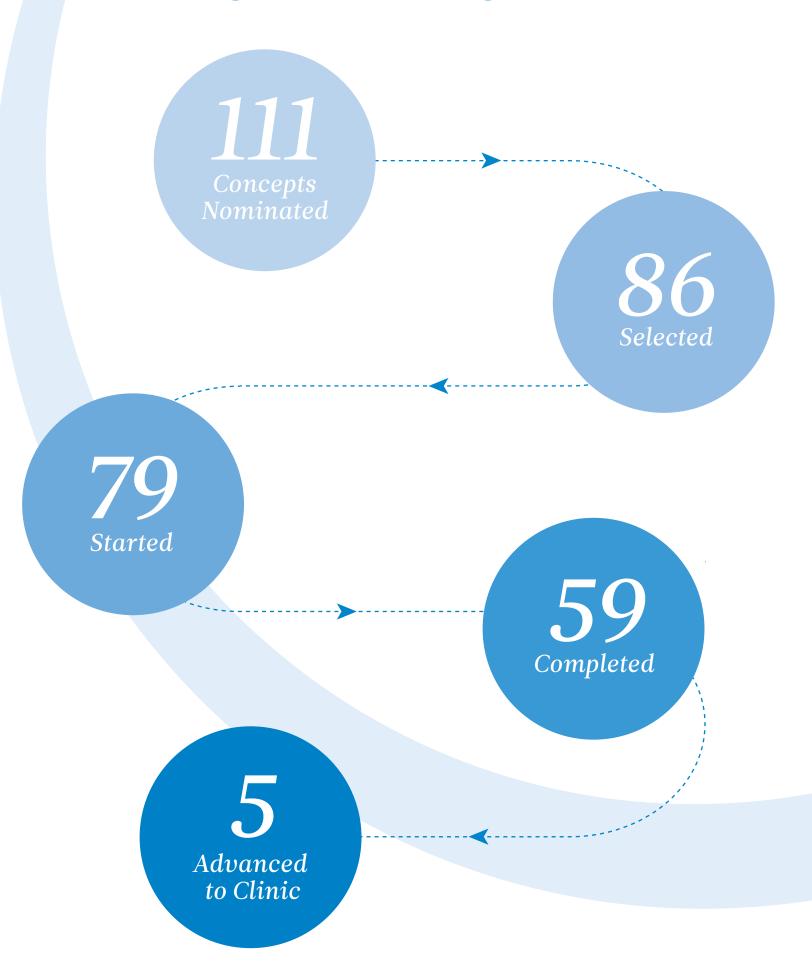
University of North Carolina

PHOTO BY JEYHOUN ALLEBAUGH/UNC-CHAPEL HILL

Better treatments in the near term

In 2021 our Drug Screening Program shined as a powerful tool for accelerating promising therapies from the lab into the clinic. Based on compelling drug screening data generated previously, we funded a clinical trial at the University of Texas MD Anderson Cancer Center testing the cancer drug cetuximab. In parallel, we continued searching for additional options by testing a record 25 treatment concepts in mice, on behalf of 10 researchers or companies. Several of these concepts dramatically decreased tumor growth and have strong potential to move into clinical trials. Looking to the future, we invested in expanding our drug screening capabilities so we can identify markers that could predict response to various therapies, as well as start testing promising immunotherapies preclinically.

Drug repurposing progress through 2021



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Jumpstarting pediatric chordoma research

Pediatric chordoma may differ in important ways compared to the disease in adults, so we're working to better understand its potentially unique biology and determine the best treatment approaches for children. To that end, we're collecting precious pediatric chordoma tumor samples, testing drugs against pediatric chordoma models, and looking for new vulnerabilities to target.



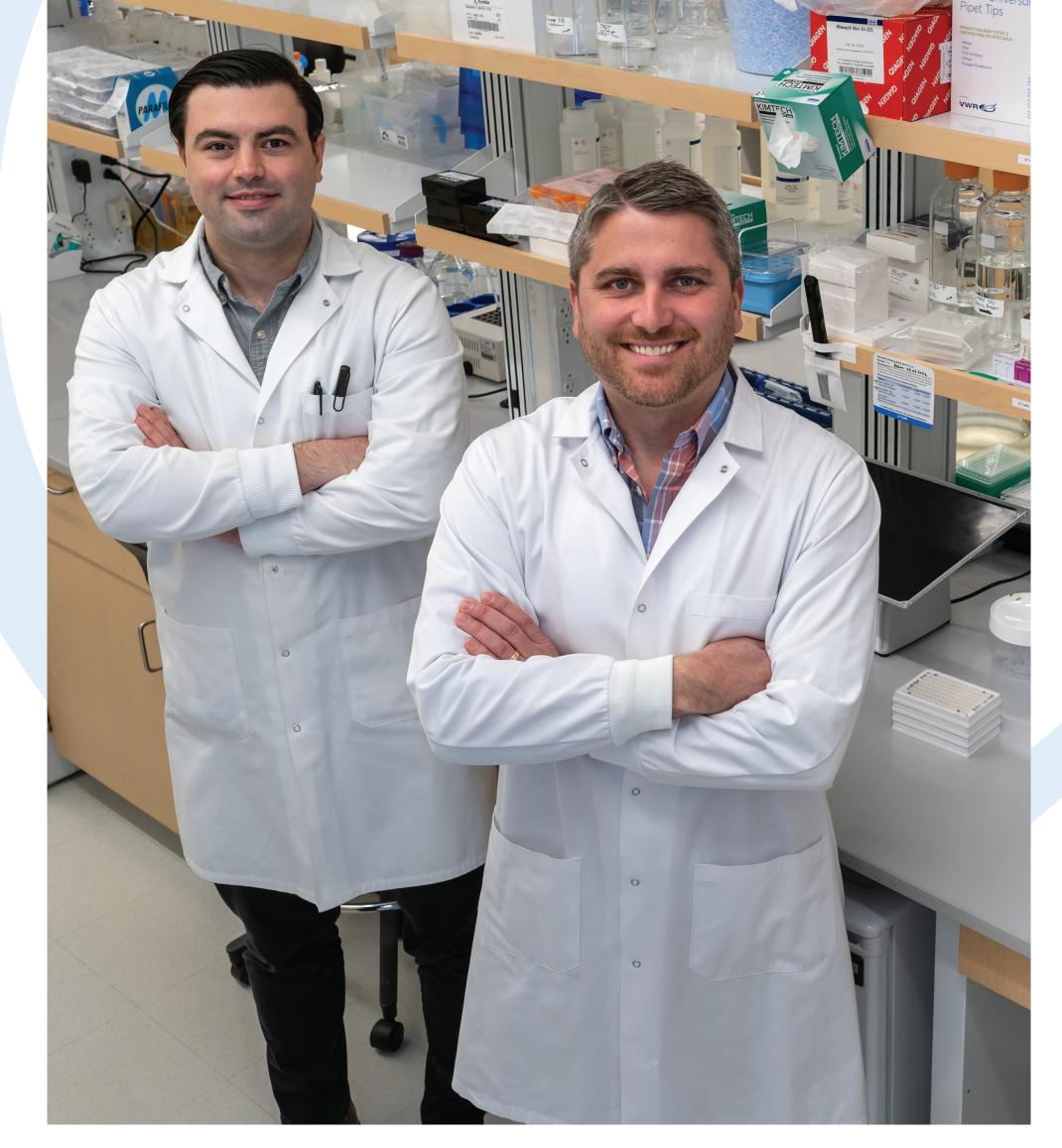
Sloane Swanton

In 2021, Sarah and Mat Swanton suffered the devastating loss of their daughter Sloane to chordoma. Her bright light shines on through the Sloane Swanton Research Fund, which supports our work to ensure far better outcomes for future pediatric chordoma patients.

To learn how to set up a named fund to support any of our research initiatives, contact **development@chordoma.org**.

Introducing CF Labs: our most powerful tool for accelerating chordoma research

In the past fifteen years, we've greatly increased the pace of progress by playing a more hands-on role in creating a productive research ecosystem. But it's also become clear that to truly make research move at a pace consistent with the urgent needs of patients, a further leap in speed and efficiency is needed. To make that happen, this year we launched the first lab 100% dedicated to chordoma research. It vastly increases the breadth of experimental capabilities we can offer to the global research community and the questions we can answer. With the unprecedented nimbleness CF Labs provides, our next chapter promises to be one in which our yearning for better treatments is finally matched by our ability to influence their discovery. Learn more: chordoma.org/CFLabs



NINDO PUNTURI AND DR. DAN FREED AT CF LABS

Improving lives

We're here to support patients and families at all stages of their experience with chordoma. In 2021, that included:

15,695
views of our Doctor
Directory

1,800+
educational materials
accessed

1,300+
members in Chordoma
Connections, our online
community

537

families given free, personalized support from our Patient Navigation Service

This year also saw a significant expansion of our international outreach efforts: We grew our team of volunteer Ambassadors outside the U.S. and provided key educational resources in seven languages. Better serving patients everywhere is among our top priorities in the year to come. View our growing number of international resources at **chordoma.org/international**.

Expanding opportunities to learn and connect

The ongoing pandemic provided an opportunity to further expand our free virtual programs, making support and connection more accessible than ever.

Through five webinars accompanied by detailed new content, we shared hope, knowledge, and solutions for common physical, emotional, and practical quality of life challenges. In addition, we launched professionally facilitated monthly virtual support groups, a place to share and be encouraged by peer experiences.

These offerings are part of our <u>Chordoma Survivorship Initiative</u>, which supports the overall health and wellbeing of chordoma patients and families beyond the initial diagnosis and treatment period. We'll continue to expand the Initiative in 2022 through a greater number of survivorship topics and virtual groups.



Dr. Pouneh Fazeli

Neuroendocrinologist at University of Pittsburgh and a featured expert in our 2021 webinars

We're not meant to do life alone. Each time I participate in a virtual group, I walk away encouraged. It's amazing to connect with people around the world who share similar struggles and experiences with chordoma. The group helps me overcome feelings of isolation and hopelessness. I feel so blessed to have connected with it."



Shari Grueninger

chordoma survivor (pictured here with spouse, Jim)

Join Us

Peer Guides

Life-changing relationships

Peer Guides connect one-on-one with individuals affected by chordoma. By providing empathy and wisdom to others, you'll form close personal ties that ease loneliness and stress. Our self-paced, online training program makes it easy to get started.

Ambassadors

Local support, global reach

Our Ambassadors help chordoma patients and families outside the U.S. connect with local resources — and each other. You'll also help distribute educational materials to medical centers and identify chordoma-experienced doctors in your country.

Contact support@chordoma.org to volunteer as a Peer Guide or Ambassador.



Irene Badura

Ambassador to Germany and grandmother of patient

Financials

REVENUE AND SUPPORT

\$3,257,137

EXPENSES

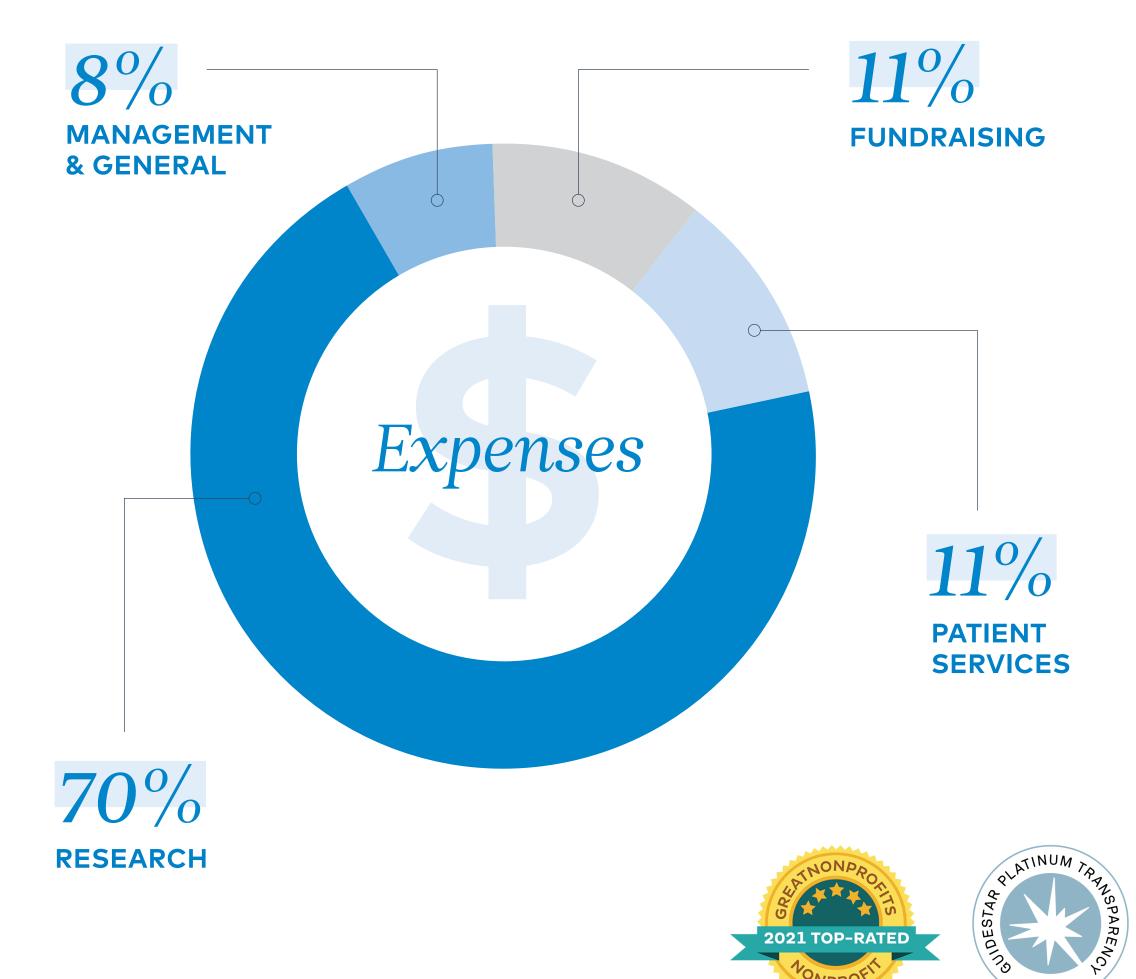
\$3,543,567

NET ASSETS,
BEGINNING OF YEAR

\$4,697,761

NET ASSETS, END OF YEAR

\$4,398,031



Our 2021 IRS Form 990 and audited financial statements are available at chordoma.org/financials.

I've had the honor of serving on a number of different boards and committees over my 40 years as a partner in a large CPA firm, and the Chordoma Foundation team members have all demonstrated a high degree of professionalism and dedication to our vital cause. It is comforting to know that the Foundation is in a well-run, secure financial and administrative position."



Leslie Adler, CPA

chordoma patient

Donors



Special thanks to our Accelerators Circle members whose gifts of \$25,000 or more over a three-year period make possible the multi-year investments needed to achieve meaningful long-term impact.

\$1M+

The Marcus Foundation

\$500,000+

Beckman Family Foundation

The Mark Foundation for Cancer Research

Moira and Gary Sinise

\$100,000+

Stanley, Marion, Paul and Edward Bergman Family Foundation

Cedar Street Foundation

Ciara Arts & Science Foundation

Fleisher Family Foundation

Lynette and Foster Friess

Hirsch Family Foundation

George Joseph

Kenneth Koza

Stephanie Neuman

Herbert & Nell Singer Foundation

Triad Foundation

\$25,000+

Anonymous (6)

Roz and Adam Abram

The Drew Barker-Wright Charity

The Becherer Family Charitable Giving Fund

Michael Bluhm

Bruns Foundation

Robert and Louise

Cohen

Cracchiolo Family

Charles and Marna Davis Foundation

Dawson's Circle of Hope

Hester M. Digges Trust

Janet and Richard Fell

Robert Greenebaum

Bob & Dolores Hope

Foundation

Illinois Tool Works Foundation Michael Torrey and Cheryl Kugel-Torrey

Kit and Bob Lennon

John Lewis

Christine and Joe

McGovern

The Orokawa Foundation,

Inc.

Susan Pence

Reinhardt Family Trust

SBES Clients Consolidated Charitable Foundation

Erin and Jeff Schilling

Grace and Andrew

Schoelkopf

Christy and Joel

Shaffer

Sarah and Matthew

Swanton

Tres Chicas Foundation

TrueScripts Foundation

Fund

Tully Family

The Van Sickle Fund

Mark and Maria Velleca

Karen and Richard

Westin

\$250,000+

Beckman Family Foundation

Fleisher Family Foundation

The Marcus Foundation*

\$100,000+

Ciara Arts & Science Foundation

Kenneth Koza

Herbert & Nell Singer Foundation

\$25,000+

Anonymous (3)

Wright Charity

Stanley, Marion, Paul and Edward Bergman Family Foundation

Cedar Street Foundation

Cracchiolo Family

Bob & Dolores Hope Foundation

Richard Horvitz and Erica Hartman-Horvitz Foundation

George Joseph

Steven Kanter*

Christine and Joe McGovern*

The Orokawa Foundation, Inc.

Shared Health Alliance

Esta Stecher*

Sarah and Matthew Swanton

Triad Foundation

Tully Family*

Maria and Mark Velleca

\$10,000+

Anonymous (2)

Alpert Family Foundation*

Bill and Anne Bachrach Family Fund

The Becherer Family Charitable Giving Fund

Better Than Ezra Foundation

Bright Funds

Robert Cohen*

Lorna and Stuart Cook

Charles and Marna **Davis Foundation**

Dawson's Circle of Hope

Abby Donnell

Janet and Richard Fell

Joanne Fournier

Janie and Adam Frieman

Robert Greenebaum

Aaron and Maggie Hayek

Illinois Tool Works Foundation

Michael Torrey and Cheryl Kugel-Torrey

Maria and Steven Mandel

Christy and Joel Shaffer*

Cody Smith

Tres Chicas Foundation

TrueScripts Foundation Fund

\$5,000+

Anonymous

Amy Adams

American Online Giving Foundation

Betsy Blackwell and John Watson

Michael Bluhm

Rosalynn Bonamusa

Bridenbecker Family Trust

Beth Cullinan

DC Medical LLC

Fayetteville Fallen Heroes, Inc.

Paul and Maria

Feldman Charitable

Foundation

Lea Glazar

Bobbi Gruwell

Andrew Hettinger

Gary Hulett

David Hunt

Maine Community Foundation

Bruce Marcus

Julie and Scott Moller

Robert and Antoineta

Neff

Brian O'Sullivan

Point of Grace

Christian

Reinhardt Family Trust The Drew Barker-Erin and Jeff Schilling

> Grace and Andrew Schoelkopf*

Polsinelli Patricia and Randy William Buhrman Akers Debra Burlingame Noreen and Mick AmazonSmile Potempa Harold Carlson Foundation Colleen and Richard Ronni and Scott Riccomini American Express Carpenter Foundation Mark and Laurie Elizabeth and William William Andrews Slepian Case The Song Family Fund Annika Folcker Aschan Anita Cassarino and David and Peggy Irene Badura Steve Carboni Tanner Philanthropic Shelba Barnes David Cenaiko Fund Warren Barrett Monica Cepin Tricia and Andy Benevity Causes Charity Golf Thompson International **BEP** Organization **UK Fund for Charities** Charitable Gift Fund Ann and Richard Alan and Suzie Citarella Sharon Berlan and Wendorf Mona and Kenny Cohen Robinson Strauss Ed Bernero Samuel Cohen \$1,000+ David Biondi Michael Colbert Anonymous (8) Collins Electric Co. Myrna Blume Hans Aagaard Jeremy Boreing Theresa Cooney

Frank Courtney Clara Cracchiolo Mary and Peter Cullinan Robert Cutts Daniel Dempsey Terri Emmett Jack Fife Cindy and Scott Frodle Juan Garcia Peter Gerhard Ruhma Ghazi Mary and Lloyd Gran Great Western Bank **Greater Twin Cities United Way** Jackie and Damian Green John Guckert

Marc Gurvitz Camille Harris Paul Herrick Geoffrey Hobart Colleen Honan Johnson & Johnson Kenneth Kapley Ken and Cathy Katz Foundation Jeffrey and Marnie Kaufman Fund Judy Kirkland and James Kenneth Wilson Family Foundation KPMG Mary and Robert Kuhnlein Ira and Lillian Langsan Fund Kirsten Larsen

Frankie and Ken Lee Heather Lee and Steve Straus Stacy Lilien Gary Linfoot Carol Lippoli Irene Loeb Holly and Thomas Lund Terri and John Mainey Bianca Mancinelli Rhoda and Leslie Mandel Michelle Matthews MaxiVAX SA McCanna Foundation Catherine McGowan Joseph Meyerowitz Michael Munro Sally and Ron Munro

Dennis Murphy Anders Naar Alexander Nadaner John Nelson Lynette and Bruce Nelson Anne Noel and Alec Dawson Janet Nolan Kathleen Parker Kathleen and Jim Patton Sarah Penniston-Dorland and William Dorland Kip Perry Perry Lodge No. 1851 **BPOE** Kristiina Perttila and Louis Parrillo

Pfizer Pinnacle Charities Linda Plews Robin Rand Adriane Rothstein and Mark Billy Ruffilli-Silbermann Family Fund Lori Ryan Mary Lou and Hans Saeby Karen and Gary Sain Juan and Barbara Saldarriaga John E. Scott Carol Siedhoff Robert and Mylles Sinise The Skyline Charitable

Foundation Inc.

J. Martin Smiley Doug Smith Josh Sommer and Rachel Lichte Julie Song and David Smyth James Srygley Joseph Stanley Charitable Trust Karen and Robert Stanuch Kimberli and Steve Sterling Barry Swidler Elliott Tarson Jon Tennyson Heather and John Therien Lawrence Tistaert

Fund Villinski Wilkins Amgen

Veritas Foundation Catherine Villinski Joseph and Allison Colleen and Terry \$500+ Anonymous (8) Leslie Adler Brian Allen Robert Allen American Century Investments American Express Company David Andrewartha Jaynee and Eric Beckman The Daniel and Karen Berman Foundation Teresa and Robert Boccanfuso Millicent Bogert **Dusty Bowenkamp** Jay Brantley Sue and Gene Brenneman Kenneth Brighton Luke Brooks Bob Brown Richard Budweg Stacey Caporaso Sharon and Peter Catto Monica Cepin **Edward Chaloner**

Raven Chong Alexandra Cooper **Barton Couch** Custom Ink LLC Clara and Tim Daniels **Armand Dhamo** Annie Dietzen Thomas Doar Michael Doiron Adrienne Dominguez Barrett Ethridge Russell and Virginia Flaum Simona Frateschi Lynn Etheredge Fund Joan Funk Robert Gavin Kate and Steve Gill

Kerry and Eddie	Michelle and Danny	Mandelbaum Family	Bailey Munro	Adam Reeves	Mary Taylor
Gilmartin	Kalenov	Fund	Patricia Munro	Dorothy and Dietmar	Luci and Abby TeDesco
Joseph Gonenc	Joseph Kane	Andrea Mandell	Deborah and Jeffrey	Riccomini	Janis and Jeffrey
Janet Goodwin	Pamela Kindler	David M. Margolis	Nadaner	Raymond Riccomini	Tillman
Anita Gupta	Amy and Shane Knee	Dolores Martinez	Sandra Nash	Steven Rolston	Diana Tischer
Janet Halfar	LeAnn Kroll	Cynthia McAfee	Stacy Neir	Kieran Sharpe	Pat and Jane Tracy
Andrew Hamilton	Celine Bourke Kuhn and	Matthew McGraw	Naomi Nemtzow and	Gregg Slepian	Fund
Darlene Hanes	J.C. Kuhn	Ellis and Darcia	Peter Casanave	J. David Small	Margaret and Mark
Robert Harris	Eleanor and Richard	Medoway	Rob and Jean Normandy	Scott Smaller	Tritschler
Jeremy Hart	Leong	James A Menke	Leon and Sharon	Ryan Smith	Cuneyt Vanli
Courtney Hatch	Susan and Richard	Krissy Miller	Oberlander	Laura and Matthew	James Waide
Aaron House	Lichte	Robert Misdom	Gillian and Mike Parrish	Soule	Rebecca Weaver and
Andrew Huggett	Amir Lozani	Victoria Moran	Eric Perrotta	Shaun Southall	Curtis Croley
	Sandra and Kenneth	Matthew Morgan	Ashley Pert	Mike Staveris	Robert Wellstein
Lisa Jaubert	Lyles	Arlynn Muckey	Diane Pitt	Michael Swift	Claus Werner
David Johnson	Debbie Mainey	,	Martin Porter		Kenneth Wilson
Jeffrey Jones		Ann Beth and Ed Mulloy	Michael Potempa, Jr.	Phyllis Tanaka	Susan Witek

We sincerely appreciate every gift and regret any errors or omissions that we may have made to the above list. Contact development@chordoma.org with questions or corrections.

*Indicates a payment on a pledge made in a prior year

Champions

We're grateful to our Chordoma Champions, who rallied their personal networks to fundraise for the Foundation, giving their family, friends, and colleagues the opportunity to be part of our shared quest.

Darya Alexander

Irene Badura

Sharon Berlan

Sue Brenneman

Kenny Brighton

Renée Butler

Lilly Caro

Erik Clark

Kathy Flores and family

Paul Herrick

Daniel and Michelle Kalenov

Janice Kennedy

Campbell Krotee

Kim Mahr

John Mainey and friends

Kate Mason

Tim McCormack

Michael Munro and family

Noreen and Mick Potempa

The Riccomini family

Marcelina and Martin Schiele

Jeff Schilling, Maggie Bates,

and Priscilla McInnes

Maureen Schroer

Sarah and Mat Swanton

Team Mac

Mark and Jenna Thompson

Wally van Laarhoven and

David Andrewartha

I've met many doctors who've said that patient participation through the Chordoma
Foundation is unusual — and wonderful. This disease is so rare; it falls to us to help find new treatments and a cure.

If not us, who? If not now, when? We've made progress, but we're not there yet."

Sharon Berlan

chordoma survivor, pictured here with husband Rob Strauss



Team

We know chordoma is a solvable problem. How fast it gets solved depends on the contributions of every one of us affected: whether by donating, hosting a fundraiser, participating in research, or supporting others in the same boat. Our new staff members, Sara Nick and Kimberley de Haseth, are here to help you propel our shared mission forward, and to share the progress that results.

Staff

Josh Sommer

Co-Founder and Executive
Director

Kenny Brighton

Head of Philanthropy

Daniel Freed, PhD

Head of Target Discovery

and Translational Research

Larry Gottschalk

Operations Coordinator

Kimberley de Haseth

Program Manager

Diane Ignar, PhD

Head of New Drug Development Andrea Locke

Patient Navigator

Shannon Lozinsky, MSW

Director of Patient Services

Sara Nick

Head of Engagement

Tammy Silverthorne

Director of Operations

The many examples of participation I've seen in this community are inspiring and energizing. I'm honored to work with families touched by chordoma to turn hope for a better future into tangible progress."

Sara Nick
Head of Engagement

Get in touch
with Sara
about taking
action.



TEAM

In 2021, we added marketing leader Alicia Jeffreys (pictured with her family on the cover) to our Board of Directors and CPA Leslie Adler to our Finance Committee. Their collective expertise is allowing us to reach our goals more quickly than ever.

Board of Directors

David Sandak

Chair

Ingemar Lanevi

Treasurer

Julie Song

Secretary

Paul Feldman, PhD

Steven Golick

Christopher Heery, MD

Alicia Jeffreys

Ed Les, MD

Sue Mahony, PhD, MBA

Steven Mandel

Shreyas Patel, MD

Christy Shaffer, PhD

Josh Sommer

John Therien

We're also fortunate to benefit from the talents of dozens within our six **Board committees**; our **Medical**, **Scientific**, and **Community** Advisory Boards; and our **Ambassadors** and **Peer Guides**.

Heartfelt thanks this year to Andy Schoelkopf



for completing eight years of extraordinary service on our Board of Directors. During his tenure — including five years as Board Chair — Andy played leading roles in the launch of our Patient Services department, our \$16M ALL IN campaign, and in the continued growth and professionalization of the organization. We're deeply grateful to Andy for the enduring impact he's made on the organization, and all that he's done and continues to do to support our mission.

When our daughter Kaitlin was diagnosed with chordoma at age 17, our world as we knew it fell apart. Thankfully, the guidance and sense of community provided by the Chordoma Foundation became the glue that slowly pieced our world back together. We're forever indebted to them for their unyielding perseverance toward a cure. They deliver families' most critical element: hope."



Dr. Mark Slepian

pictured here with spouse, Laurie; and daughter and chordoma survivor, Kaitlin



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