



Transforming sick children's future

Every sick child deserves every chance.

“Life is no brief candle to me. It is a sort of splendid torch which I have got a hold of for the moment, and I want to make it burn as brightly as possible before handing it on to future generations”

George Bernard Shaw

Acclaimed Irish Dramatist, Nobel Laureate,
freethinker and advocate of equal opportunity

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Catalysts for children's health progress



Dear Friend,

If a child you love is sick you will go to the ends of the earth for them, though you shouldn't have to.

When medical scientific research meets with incredible clinical care and innovation; that is where miracles are made mainstream. That is where progress for children can be made, where more lives can be saved and improved.

The Children's Medical and Research Foundation (CMRF) together with our partners has been enabling pediatric research and supporting the development and education of clinicians and researchers of the future for over 50 years. Together with our wonderful supporters, parents, consultants, scientists and incredible donors and volunteers, we have improved thousands of patient experiences, made a significant impact in daily lives and helped enable hundreds of thousands of lives to be saved. Globally.

Research offers families and patients facing incredibly life threatening, life limiting and rare or complex health conditions and diseases the hope they need to get through difficult days. The chance that things will change, the opportunity to access the best of everything along their patient journey.

Clinical research offers incredible care and access to the most cutting edge and newest treatments available at the same time as children in other medically advanced corners of the world.

Investing in cutting edge technologies and equipment can transform the way things are done driving improvements for diagnosis, cure and care accelerating progress and transforming outcomes.

CMRF wants to enable the breakthroughs of the future, the pioneers and pioneer projects and initiatives that will disrupt status quo, personalise treatment specifically for children, and greatly enhance the landscape of children's health, in Ireland and abroad.

To enable this sort of impact, today, tomorrow and forever, we need to invest. We need champions and leaders. We need pioneers. We need catalysts.

We have a strong program planned for the next 5 years and we believe we can lead a step-change in progress for sick children. It will be ambitious, collaborative, international and most importantly an extraordinary journey. We hope you will join us on it.

Sincerely

A handwritten signature in black ink that reads "Lisa-Nicole Dunne". The signature is fluid and cursive.

Lisa-Nicole Dunne
Chief Executive, CMRF Crumlin

15%

Percentage of congenital heart conditions in children associated with genetic conditions

1,250

Number of children younger than 15 years old expected to die from cancer in the United States annually

70,000

Number of people living with Cystis Fibrosis worldwide

1 in 4

Number of patients in U.S. under 20 years old diagnosed with Inflammatory Bowel Disease annually

10,000

Number of children and adolescents in United States with kidney failure

250,000

Families in the United States who are affected by Down's Syndrome

80%

Survival rate today for childhood leukaemia today and climbing

11

Number of U.S. states National Children's Research Centre is partnered with

1 in 4

Number of children in Ireland attending school who are overweight or obese

1 in 100

Number of children diagnosed in Ireland with structural heart defects

1 in 19

Number of people in Ireland carry the Cystic Fibrosis gene

208,000

Population in United States with diabetes younger than 20

36,000

Number of children in United States suffering from Juvenile Idiopathic Arthritis

700

Number of diagnosed cases of Neuroblastoma in U.S. annually

1,000

Number of children born with Cystic Fibrosis annually in the United States

8.1

Percentage of births in the United States with a low birthweight (less than 5.5 pounds)



**Survival.
Progress.
Hope.**

About The Children's Medical Research Foundation (CMRF)

The sickest children need better outcomes, better treatments, better cures and quicker diagnoses. Research offers patients facing life threatening, life limiting conditions the hope they need to get through difficult days. The Children's Medical & Research Foundation seeks to enhance the ability of pediatric clinicians in Ireland and around the world to transform the health and wellbeing of these children and young people, giving them the chance to fulfill their potential.

About The National Children's Research Center (NCRC)

The National Children's Research Center, located on the grounds of Our Lady's Children's Hospital, Crumlin, in Dublin, is the largest dedicated children's research center in Ireland. It has been at the heart of pediatric research in Ireland for over 50 years. Under the leadership of Dr. Jacinta Kelly, the NCRC is a key enabler of pediatric research in Ireland and is partnered with medical institutions across 11 states in the U.S. The mission of the NCRC is to support this internationally-competitive, high-quality research that has a real and lasting impact on children's health.



Ireland and global pediatric research

- Because of Ireland’s small gene pool, it offers a unique opportunity for research – we have a national footprint of all priority diseases and illnesses treated in one place
- We have the youngest population in Europe and the largest family sizes
- Research is an international effort with top quality researchers building on insights and findings
- Progress made for children in Ireland can offer significant insights for the far-reaching numbers of people with Irish heritage around the world.
- Track record of aspiring for excellence in care and breakthroughs
- The Children’s Medical & Research Foundation has the capacity and ambition to lead the step-change required in investment in child-health and research in Ireland at a crucial time

Vision and Scale of our Ambition

1 Big Number

\$50 million in grants over 5 years to transform lives of sick children forever.

3 Core Goals

- Save lives and prevent illness right across the world
- Improve quality of life for children with chronic and debilitating complex illnesses
- Improve experiences of children who are sick and on their toughest journey

Research, education and innovation are the biggest growth areas for the coming years, and our areas of greatest funding need in the future of children's health care. Striving for success we aim to provide grants of over \$36 million for research, innovation and education in the coming years. To be effective, we need patrons, champions and leaders to be catalysts for children's health.



6 Programs for Children

My Environment (Capital)

Investment in improved patient facilities, wards, parent facilities, outpatient departments

\$4 million

My well-being and patient experience (Holistic)

Patient/family psycho-social supports and research

\$5 million

My Doctor's tools (Equipment)

Life-saving equipment, technologies and emergency supports

\$5 million

My care team's knowledge (Education)

Education, Scholarships, Fellowships, Leadership roles

\$5 million

My data, genes, laboratory (Leadership)

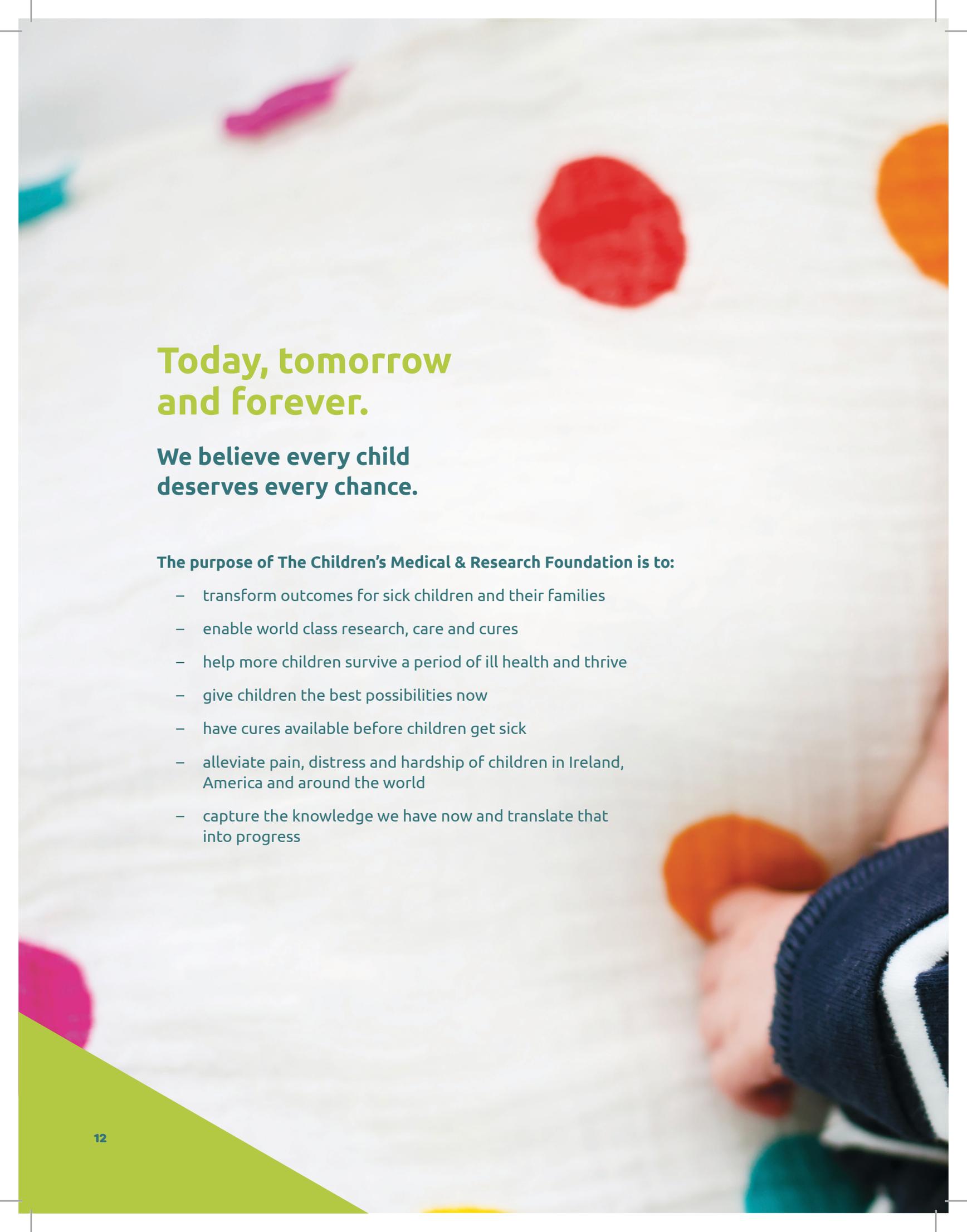
Leadership investments in foundational building blocks, key roles, bio banks, state-of-art lab

\$9 million

My chances, hope, my brighter future (Research)

Innovation funds, transformative treatments, breakthrough and priority research programs

\$22 million

A close-up, slightly blurred photograph of a child's feet wearing colorful socks (red, orange, teal, pink) on a white, textured surface. The text is overlaid on the left side of the image.

Today, tomorrow and forever.

**We believe every child
deserves every chance.**

The purpose of The Children's Medical & Research Foundation is to:

- transform outcomes for sick children and their families
- enable world class research, care and cures
- help more children survive a period of ill health and thrive
- give children the best possibilities now
- have cures available before children get sick
- alleviate pain, distress and hardship of children in Ireland, America and around the world
- capture the knowledge we have now and translate that into progress





The Opportunity

- 1. To pioneer less toxic treatments that heal children more precisely and gently**
- 2. To invest in breakthroughs that change childhood illness forever**
- 3. To tackle complex, rare and challenging childhood illnesses**
- 4. To discover cures that save lives across the globe**

Mortality rates have significantly improved over the past 50 years. Many illnesses no longer exist. But each year children still die way too young. Modern medicine, treatments and research has significantly improved the quality of life for children who live with chronic or debilitating illnesses, disease and disability, but more can be done. More lives can be saved. More breakthroughs can be achieved. Better treatments can be discovered. New preventative strategies can be pioneered.

We believe that with our partners at the National Children's Research Center and Our Lady's Children's Hospital in Dublin, together with partnering institutions across the world, we can help enable these breakthroughs. Together we have a proven track record of incredible achievements in pediatric research.

3 Priority Areas

1. **Discovery**
2. **Leadership**
3. **Transformation**

We invite you to invest in the vital foundations, help establish the culture, discover visionary thinkers and pioneers of tomorrow's cures. Join us at the forefront of transforming outcomes for sick children.

Striving for success, we aim to

- Educate 35+ Pioneers through their Clinical Fellowship
- Help 50+ doctors develop a passion for paediatrics
- Create leadership roles via 3 Strategic University Partnerships
- Enable 45 seed projects to explore, and commence innovative research
- Deliver 75+ more clinical trials and studies for children
- Improve quality of life for thousands of children during the period
- Discover life-saving breakthroughs that will impact millions of sick children the world over

1. Discovery

Creating pioneers through education

The more we know the more we can do.

Priorities of this program

1.

Embed and inspire a research culture

2.

Create scholarships for health professionals to specialize in pediatrics

3.

Invest in developing the researchers and clinicians of the future

4.

Fund key leadership roles in priority areas working with leading Universities

The discovery of tomorrows' cures lies in the creation of a research culture, scholarships that encourage doctors, nurses and other health professionals to consider, train and develop a passion for pediatric medicine.

Leaders alter operational systems, challenge norms, and make definitive decisions that can change and improve how care and cures are developed, supported, taken to scale and made mainstream.

CMRF supporters help discover leaders of the future through supporting and investing in education, including leadership roles in university schools of medicine and science, clinical fellowship roles and support programs and leadership awards that encourage the best quality research into childhood illness and disease.

The path ahead is paved with opportunity to change children's lives.

2. Leadership

Laying the foundations of great research

Priorities of this program

1.

Fund and equip the state of the art laboratory

2.

Invest in bio banks and vital sample databases

3.

Underpin the program with the best technologies

4.

Fund the governance and oversight running costs of the research program to the highest world standards

Accelerators and leaders give unrestricted gifts to allow for programs to be scaled up, to provide for capacity building to fund laboratories or allow CMRF to put the funds where the need and opportunity is greatest.

Leadership gifts support a step-change in investment in pediatric research initiatives in a consistent, sustainable way by inviting others to invest, by actively encouraging pioneers to give unrestricted funding to where the need is greatest, whilst also supporting capacity building, foundational work, and running the lab, without which critical research cannot be supported.

Nimble and dynamic funding can drive greater investment in innovation, new technologies and ramp up where key opportunities arise.

Biobanks

Supporters of the leadership program fully understand the need for investing in foundational work. They actively support the development of vital bio banks, in birth cohorts, large sample databases that will provide the vital insights that will help unlock markers of child health development. This leadership investment drives the breakthroughs of tomorrow, allowing critical mining to predict, pre-empt and discover links to causes, treatments and cures.

3. Transformation

Through innovation and breakthrough research

Priorities of this program

1.

Provide innovation and seed funds for exploratory research

2.

Give children access to clinical trials and ground breaking treatments

3.

Find and discover breakthroughs by funding sustainable research into key priority areas

Enabling Innovation

Advances in medicine rely on innovative ideas; however, getting these new ideas up and running can be a significant challenge. The Innovation Award is designed to foster new ideas, build new partnerships, and support novel research in child health. The aim is to develop new, exciting avenues of research, and to develop a pipeline of new projects. Feasibility, pilot, or proof of concept studies are among the types of research supported by innovation funds.

Clinical trials

Crumlin is the leader of clinical trials in Ireland. Children should not have to wait for the best opportunities to more personalized care.

The CMRF working with NCRC, and Our Lady's Hospital over the coming years has very significant plans to grow and increase the number of children who can be supported with the very newest, breakthrough medicines and treatments including new technologies and drugs to facilitate quicker recovery, better quality of life after treatment and better outcomes. Supporters will directly support this growth plan and global effort, delivering more clinical trials for children today. children today.

Breakthrough Priority Areas

A key part of our growth strategy with the NCRC is to concentrate our investment on personalized medicine, tailored to each child. We will aim to take discoveries out of the laboratories and onto the wards as quickly as possible.

Examples priority areas

One in One Hundred

Tiny heart innovation program

Recently seed funding discovered that there is a great opportunity for stem-cell development and using 3D printed hearts to change outcomes for children born with a heart defect (1 in 100 in Ireland). These projects now need further investment to take these insights to scale, to transform clinical and surgical practice on the back of these discoveries.

Shield CF

Cystic Fibrosis Program

Study of Host Immunity and Early Lung Disease in CF is an ambitious long term study to try to understand the cause of lung function decline in children with CF. CF is the most common deadly inherited condition in the world affecting Caucasians and Shield CF captures data from children from diagnosis who are monitored, and tracked and traced annually. These studies will provide incredible insights to help better understanding and in turn treatment.

Too fast too early

Obesity program

Recent leadership investments in Baseline Birth Cohort bio bank have established critical links between children who grow too fast too early and significant health challenges. There is a philanthropic opportunity to further invest in critical 3–5 year research into this area to draw greater conclusions and ultimately with a view to create preventative transformational strategies in the fight against obesity.



Be the Change

We cannot do this alone. We need pioneers, accelerators, and catalysts for change who will help champion, invite and invest in programs and technologies that will underpin all research and help change child health outcomes for the good of children globally.

Invest in key programmes:

- Discovery
- Leadership
- Transformation

Investment Level	From	Duration
Gift level	\$25,000	Annual / Once-off
Accelerator circle	\$50,000	Annual / Once-off
Naming opportunity	\$500,000	Once-off or over 3 years

Expected outputs and impact:

3

Strategic partnership and leadership roles at leading Universities

35

Clinical Fellowship Graduates

45

Innovative projects explored so new solutions, approaches and technologies and advances can be tested, initiated and taken to scale

75+

Clinical trials and studies

Recent successes:

35

Total number of graduates to date

3

Number of major discovery biobanks

46

International presentations 2016

4500+

Prescriptions screened for error

2000+

Children turned 5 years in the BASELINE birth cohort

585

Participants recruited to DOCHAS for study of childhood inflammatory bowel disease

8000

samples in Shield cystic fibrosis biobank

For more details on some of the discoveries already made possible through international philanthropy, consult the Foundation's Impact Report publication.

Stewardship – Our promise to you

We will value your time and support

We will manage your investment wisely and are completely committed to good governance, transparent reporting and good fundraising

We will provide you with an annual impact report and a copy of CMRF annual report as well as the NCRC annual report

We will feature you on the CMRF and NCRC websites should you wish

We will provide you with tours of the research center

We will share published papers on research with you and also publish on NCRC website

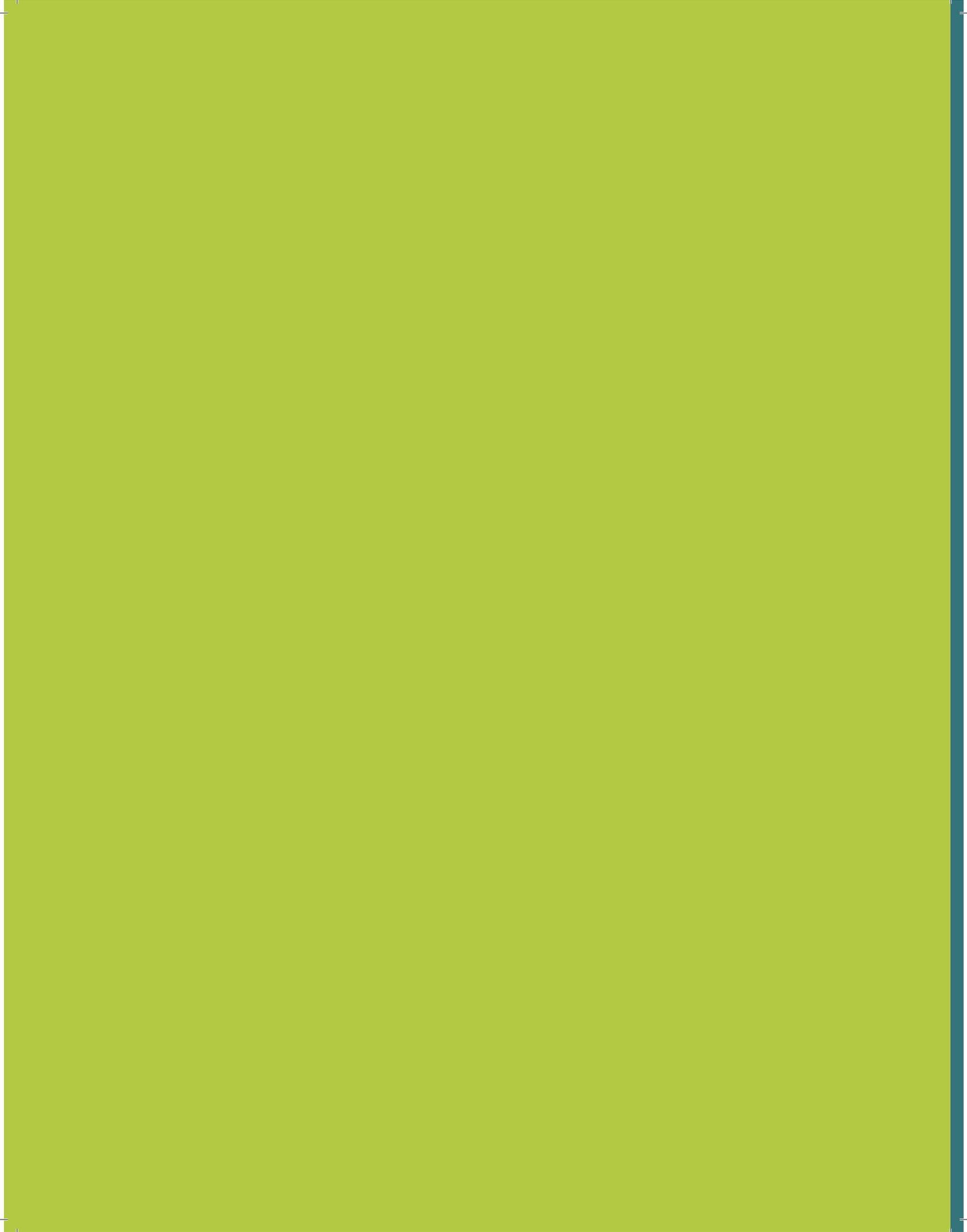
We will communicate the impact and encourage others to build on your legacy

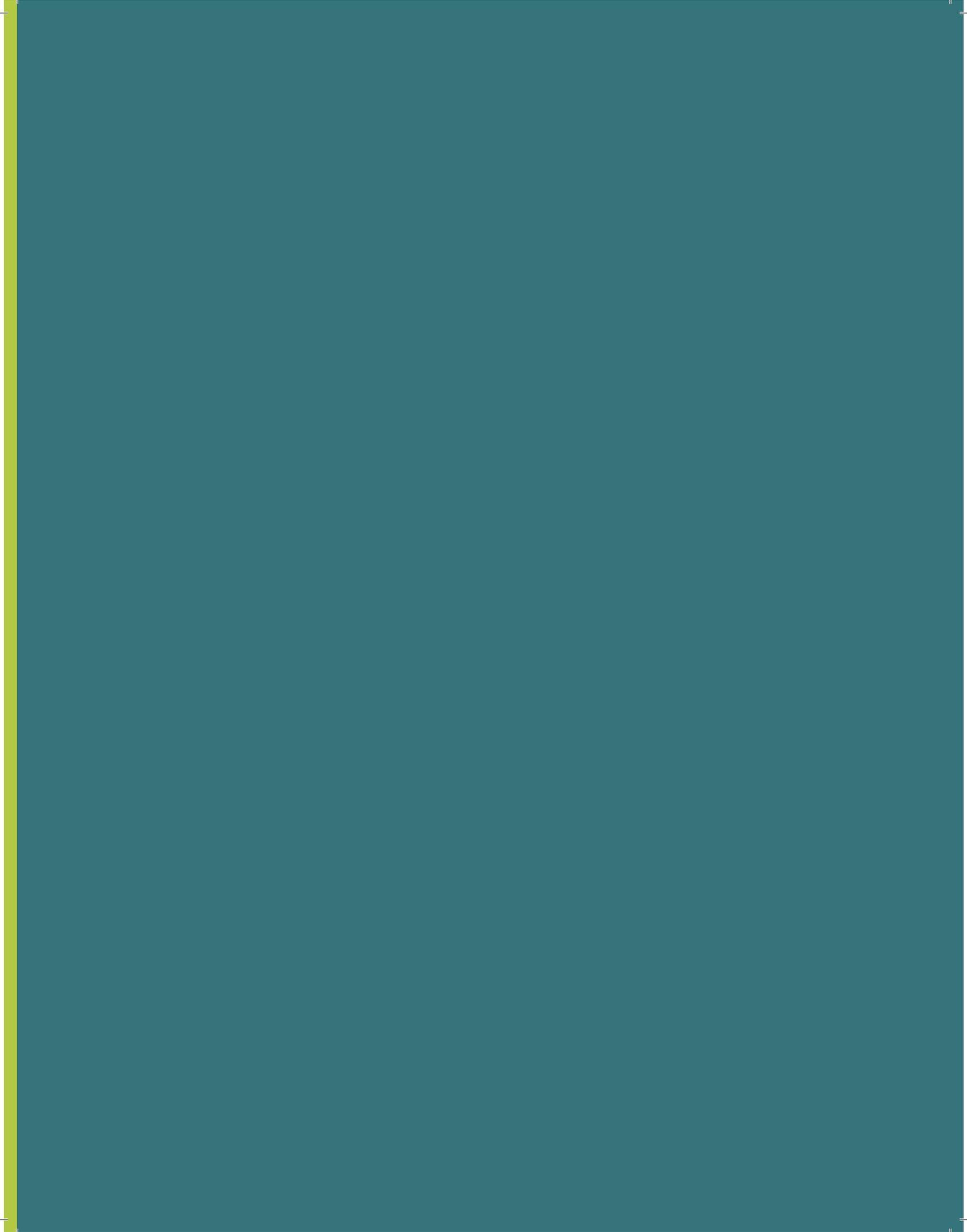
Join Us

We invite philanthropic supporters to become Catalysts for change and help us transform the future for sick children.

- Champion
- Invite
- Invest

For more information on any of our programs for children, please contact our Development office.





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Every sick child deserves every chance.