MILESTONES FOR SPIELMAN FUND SUPPORTERS IN 2013



Chix with Stix annual golf outing has raised to date over \$300,000 for breast cancer research and will have completed its 15th year of supporting the Spielman Fund this fall!

The 12th Annual Angel Open golf outing swung over the \$250.000 in donations mark!

Panera Breads/Covelli Enterprises, who host the annual 5K race **Step Up for Stefanie**, has raised over \$250,000 in just two years for research!

Tough Enough to Wear Pink Horseshow broke the \$150,000 milestone for the Stefanie Spielman Patient Assistance Fund with this annual event!

Stef's Celebrate Life Tailgate surpassed the \$150,000 mark in two short years to support the technology needs of the Stefanie Spielman Comprehensive Breast Center!

Ride for the Ribbon horseshows has reached the \$125,000 mark in donations!

Thank you to our K-12 schools and universities across the United States for raising over \$100,000 this year to Continue the Fight!



OSU COMPREHENSIVE CANCER CENTER JAMES CANCER HOSPITAL & SOLOVE RESEARCH INSTITUTE



VISIT US ONLINE: spielmanfund.com

Make a gift and read more in-depth news and information at our online home, SpielmanFund.com.

CONNECT WITH THE SPIELMAN FUND:



facebook.com/SpielmanFund



Sign up to receive the bi-monthly Spielman Fund eNewsletter: go.osu.edu/SpielmanEmailNewsletter

CONTINUE TO FIGHT. CONTINUE TO LIVE.

Make an impact on the fight against breast cancer. 100 percent of your gift goes to breast cancer research at Ohio State's Comprehensive Cancer Center – James Cancer Hospital and Solove Research Institute.

BY MAIL:

The Stefanie Spielman Fund for Breast Cancer Research P.O. Box 183112 Columbus, OH 43218-3112

ONLINE:

Giveto.osu.edu/Spielman

BY PHONE:

614-293-3752

43218-3112

The James



660 Ackerman Road PO Box 183112 Columbus, Ohio

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OSU COMPREHENSIVE CANCER CENTER JAMES CANCER HOSPITAL & SOLOVE RESEARCH INSTITUTE

RESEARCH • EDUCATION • HOPE

THANK YOU FOR \$13 MILLION!

What motivates you? Is it your own disease? Is it a friend? Is it a loved one? Stef asked us these questions for a reason. Until we find out what motivates us, we won't be able to achieve our mission — a cancer-free world. I can tell you that my family, friends and community motivate me. You all motivate me to continue this fight against cancer and continue to live out Stef's mission to find a cure.

The Spielman Funds have reached over \$13 MILLION! This is an incredible number



we have achieved and it is thanks to all of you. But what is even more impressive than the amount of money raised is how the money is being used — 100 percent of your gift goes directly to support the Fund's efforts. The Spielman Fund is devoted to advancing research in breast cancer and finding a cure we can pass along to our children. Currently, the Fund is focused on supporting the following areas:

- Development of new breast cancer drugs
- Tissue banks human breast cancer tissue samples used to make discoveries and new drug targets
- Recruitment of the best and brightest physicians and researchers through Professorships and Fellowships
- Support for research studies

Please take a moment to read the article on pages 9 – 11 to learn more about the research being conducted.

In addition, we are making an impact on patient care. The Stefanie Spielman Patient Assistance Fund assists breast cancer patients and their families who are struggling to afford the costs associated with treatment. The Fund has provided essential equipment and services including: circulation pumps for lymphedema, compression garments, wigs, nutrition supplements, gas cards, restaurant gift cards and assistance with transportation.

To continue these efforts and to continue the growth of the Spielman Funds, we all have to be on board. Figure out what motivates you and you will be successful. I made a promise to continue what Stef started, and over the years I have learned that I cannot do it alone. It is within this community of survivors, doctors, nurses, friends and family that we will find a cure. If we continue to give money, support, hope and love, it will continue to grow. I've been given a mission, I've been given a passion, and that is why I am here.

Thanks to The James and to all of you -1 believe a cure will be found.

God Bless,



OSUCCC – James Stefanie **Spielman Comprehensive Breast** Center Leadership

Michael A. Caligiuri, MD Director, The Ohio State University Comprehensive Cancer Center CEO, James Cancer Hospital and Solove Research Institute

Medical Oncology

Charles Shapiro, MD

Surgical Oncology

William Farrar, MD

Radiation Oncology

Julia White, MD

Breast Imaging

Selin Carkaci, MD

Reconstructive Surgery

Michael Miller, MD

Stefanie Spielman Fund for **Breast Cancer Research**

Founder

Chris Spielman

OSUCCC - James Assistant Vice President of Development Steve Chaykowski

OSUCCC - James Senior **Director of Development**

Jennifer McDonald **OSUCCC - James Chief**

Communications Officer Theresa DiNardo Brown

Editors

Jessica Holstine Margaret Stone

Contributors

Katie Brennan Kim Collins Jennifer Hargett Jennifer McDonald Terri Stone

BREAST CANCER AWARENESS MONTH

OCTOBER 6

1-4 p.m. on the lawn of Chemical Abstracts Service. Register at go.osu.edu/cancersurvivorsday

The James' Cancer Survivors Day Celebration

OCTOBER 10

Toward a Cancer-free World **Breast Cancer Expert Phone Bank**

Call in to 10TV during the 5, 5:30 or 6 p.m. newscasts to have your breast cancer questions answered.

Metastatic Breast Cancer Awareness Day

Breast Cancer

Survivorship **Conference**

hosted by James Care for Life and featuring cancer survivor and author Regina Brett. Call 614-293-6428 or visit cancer.osu.edu/go/support to register.

National Breast Reconstruction Awareness (BRA) Dav

Join The James on Google+ for a special Hangout featuring our breast reconstruction experts.

9 a.m. - 5 p.m. ope's Boutique 15th

Anniversary Celebration hedule an appointment or a massage or a mastectomy or breast prosthesis fitting,

Mammography Day

Vear Pink! Pink out your tailgate with Kroger! Arrive early for special pink rally items!

Panera Bread Bakery-Cafés

pink ribbon bagels sold during October will benefit the

Kroger

Pink ribbon campaign will benefit the Spielman Fund

Donatos

Proceeds from all large pizzas during October will benefit the Spielman Fund,

Pink with a Purpose

Schedule your James mammogram at one of seven neighborhood stops and receive a \$10 Macy's and a \$20 Polaris Grill gift card. Visit sunny95.com to find a Pink with a Purpose event near you.

Nine central Ohio shopping centers **Shopping Centers** awareness month with The James.

Hope's Get 25% off all gift items Boutique more during October,

CHAMPION OF HOPE – SHANNON PETERSON

In life, we come across those who give selflessly of their time, energy and love to help many cancer survivors while continuing to fight and further our mission. Shannon Peterson is one of those people and that is why she's been honored with the 2013 Champion of Hope Award.

Receiving this award has allowed Shannon to share the story of how Stefanie impacted her life. "Receiving the Champion of Hope award was a very humbling experience; it was such an honor and a day I will never forget." Shannon recognizes the platform she has been given by receiving this award and plans on using it to motivate others and get

other people involved in the Spielman Fund. Shannon wants to encourage others not to be overwhelmed by the idea of fundraising and understand that every dollar raised counts and will make a difference.



Shannon's husband, Lee,

summed it up best when he said, "Supporting the Spielman Fund is not a hobby or something Shannon does for fun, she believes in this cause in her heart and in her soul."



STEFANIE'S TEAM OF HOPE

Stefanie's Team of Hope greased up their bikes and put on their helmets for another exciting ride in Pelotonia 13. As the lead grassroots fundraising peloton, Stefanie's Team of Hope, led by Shannon Peterson, had big goals for 2013. Since Pelotonia began, the team has raised more than \$1 million for research at the OSUCCC - James!

Stefanie's Team of Hope had 203 total team members for Pelotonia 13 and hope to have raised \$400,000 this year. "We are going to beat cancer by growing our team. More riders will equal more money, which will fund more research so we can end cancer," says Shannon.

Shannon shared her mission for Stefanie's Team of Hope. "Our peloton was created to honor Stefanie and to carry on her legacy of hope. To raise awareness for the Spielman Fund, and to do our part to raise as much money as we can to find a cure for all cancers." With the help of Shannon and other riders like you, Stefanie's

> Team of Hope will continue to grow and her mission to find a cure will be made possible.





To join the 2014 Stefanie's Team of Hope Peloton, contact stefaniesteamofhope@gmail.com.

MAKING A STATEMENT THAT MAKES A DIFFERENCE

The Stefanie Spielman Fund is excited to announce our partnership with **soHza**, an online jewelry retailer where you can find beautiful handcrafted jewelry made by female artisans from around the world, particularly in areas where survival is a daily struggle. The jewelry is made from local hardwoods, beads and other materials—some is even made from recycled bullet casings melted down and given new life. With this partnership, we are able to connect women here with stories of survival by women from around the world.

When you purchase a piece of soHza jewelry from the "Stefanie Spielman Fund Collection" at **sohza.com**, soHza will give a portion of the sale back to the Fund, helping women here and all over the world.

soHza co-founders Vicki Miller and Cassi Baker showcased their new fall pieces with Maddie Spielman, Stefanie's daughter, as well as Stefanie's sister and niece who all assisted in selecting the items for this special collection.

soHza was founded on one simple belief—"when a women is at the center of change, anything is possible." The soHza artisans are making a difference in their own lives and the communities around them, making them an ideal partner for the Spielman Fund.







KROGER'S GENEROUS SUPPORT

Since 2004, Kroger has been a major corporate sponsor and supporter of the OSUCCC – James and is the leading supporter of the Spielman Fund. Through their efforts with Pink Ribbons sales, support of Stefanie's Champions, pink football balloons, coin boxes, pink bags, wristbands and much more, Kroger has donated over \$2.6 million to the OSUCCC – James and the Spielman Fund. Kroger is dedicated to The James vision to create a cancer-free world, one person, one discovery at a time.

Kroger's generous gifts have made possible the OSUCCC – James goal of translating research into high-quality patient care and education programs so cancer patients can become survivors.



THE STEFANIE SPIELMAN COMPREHENSIVE BREAST CENTER

4 Floors with 117,400 square feet

of space to offer the full continuum of breast cancer care — from prevention and screening through detection, diagnosis, treatment and survivorship — in one convenient, world-class facility.

Sees 300+ patients per day

Offers:

- Breast Imaging (digital mammography, ultrasound)
- Chemotherapy
- Clinical Trials
- Diagnostic and Nuclear Imaging
- Genetic Counseling
- Hope's Boutique
- Laboratory Services
- Medical Oncology
- Nutrition Services
- Oncology Rehabilitation
- Phlebotomy
- Psychosocial Services
- Radiation Oncology
- Reconstructive Surgery
- Survivorship Classes
- Surgical Oncology

Houses more than 120 experts from a wide spectrum of specialties.

Ranked 7th on a list of Ohio LEED-certified spaces (Leadership in Energy and Environmental Design (LEED) certification awarded February 2013.)



THANKYOU



Jersey Mike's raised more than \$28,000 during March to benefit the Spielman Fund through their Month of Giving campaign. Throughout March, customers could make donations at the register at 14 central Ohio Jersey Mike's locations. On March 27, 100% of the proceeds from lunch were donated to the Spielman Fund. Jersey Mike's continued their support by donating boxed lunches to two other Community Partner golf outings supporting the OSUCCC – James.



Bowl for the Cure celebrated its 3rd annual bowling event to strike out breast cancer in April at Sequoia Pro Bowl. The event featured two days of bowling by 135 teams to benefit the Spielman Fund. Organizers Chris and Paula Weatherman started the event in 2011 after Paula was diagnosed

with breast cancer. They had both been in the bowling business for 21 years and knew they could bring a large group together to have fun and raise money for the Spielman Fund. This year they had teams from West Virginia, Indiana, Cleveland, Dayton, Ashland and all of the communities surrounding Columbus. This year's event brought the three-year fundraising total to more than \$30,000.



Congratulations to **Buckeyes** for a Cure cofounders Jonathan Cochran and Alexander Bork for creating the world's largest buckeye necklace and raising \$20,000 to support the Spielman Fund. "It's hard to believe the final stages of our four-year project are coming to an end. Seeing the reaction to our program from those affected by breast cancer has been very enriching," says Jonathan Cochran. The group assembled 16,000 buckeyes in a uniquely designed "Block O" display case that is currently housed at the Stefanie Spielman Comprehensive Breast Center. Each buckeye is individually numbered and linked to a supporter's name.



What began as a simple T-shirt

sale idea by local firefighters to raise funds for breast cancer research has now grown into Tiffin, Ohio's largest 5K race. The **2nd Annual Tiffin Firefighters** 5K & Fun Run was held on Sept. 29. Last year's inaugural event welcomed more than 350 participants and raised more than \$9,700 for the Spielman Fund. "We chose the Spielman Fund because we wanted the money we raise to stay in Ohio and be used for breast cancer research. The Spielman Fund has a great reputation for responsibly using the money raised and the benefits of its work are easy to see here at home," says Rob Chappell, Tiffin Firefighter and Event Organizer. In August, they hosted a Cancer Center Charity Dinner as well with a portion supporting the Spielman Fund.

The 2nd Annual Courage,
Conquer & Cure 5K will be held
on Oct. 5 in historic downtown
Canal Winchester and led by
breast cancer survivors and race
creators Jodi Brown and Angie
Abel. The two ladies quickly
decided they wanted to work
together to give back, make a

TO THE PROUD SUPPORTERS OF THE SPIELMAN FUND!



difference and find a cure by organizing a 5K race to benefit the Spielman Fund. Their first year was an overwhelming success, resulting in 800 participants and raising more than \$22,000.



Stef's Celebrate Life Tailgate

continues to carry on Stefanie's passions of family, breast cancer fundraising, serving others and Ohio State football. The event celebrated its third year anniversary on Sept. 14 by welcoming family, friends and supporters to an Upper Arlington neighborhood party. The annual tailgate hosts guests for a day of food, music, football and fun while honoring Stefanie's commitment to finding a cure for this devastating disease. Through the efforts of the Celebrate Life Tailgate committee members

and their supporters, more than \$156,400 has been raised for a Digital Tomosynthesis machine through the Stefanie Spielman Technology Fund. This machine allows for a 3D view of breast tissue and is critical for those seeking the latest advancements in breast cancer diagnosis and treatment. For more information, please visit stefscelebratelifetailgate.org.



Mad River Mountain's Pretty

in Pink event held this year on Feb. 10 at Mad River Mountain in Mansfield, Ohio, continued to fight breast cancer and conquer the slopes to support the Spielman Fund. This sixth annual co-ed race and rail jam event encouraged male and female skiers and riders to participate in a fun-filled day of activities including raffles, giveaways, live music and fun onmountain events. In addition, Mad River Mountain donated \$1 from every lift ticket sold that day to the Spielman Fund. Since 2008, Pretty in Pink continues to grow and has raised more than \$7,900 for the Spielman Fund.



JD Equipment, a family-owned business founded in Plain City, Ohio, and Ohio's largest John Deere equipment dealer, donates a portion of each sale of John Deere Select Series riding lawn mowers to the Spielman Fund. The effort focuses on sales of tractors in which they donate anywhere from \$10 to \$70 for each one sold. JD Equipment has been contributing to the Spielman Fund since 2010. For more information, please visit idequipment.com. JD Equipment has raised \$28,000 over the past year to support the Spielman Fund.



The Spielman Gridiron Classic

is in its sixth football season and motivates high school students to raise money for the Spielman Fund. So far, the events have raised more than \$82,000. When the season is complete, Chris



Spielman hosts an assembly at the school that raises the most money to inspire students to get involved in the local community and to award a scholarship in Stefanie's honor.

MAC Tools, a national company based in Westerville, Ohio, is continuing its efforts to raise money for the Spielman Fund this October. In 2012, MAC raised \$32,000 for the Fund by selling special edition "Wrenching the Cure" toolboxes to MAC Tool Distributors, bringing the two-year donation to more than \$48,000. In addition, the Spielman Fund logo is on the MAC Tool-sponsored NHRA Top Fuel Dragster running

during the Auto-Plus NHRA
Nationals racing event in Reading,
Penn., the weekend of October
3 – 6. For more information, visit
mactools.com.



The 3rd Annual Step Up for Stefanie 5K/2-mile run/walk event took place on Sunday, Sept. 15, on The Ohio State University campus. This fun and family-friendly event was presented by Panera Bread and managed by M3S Sports and benefited the Stefanie Spielman Fund for Breast Cancer Research at the OSUCCC – James. The race started and finished at Ohio Stadium. To learn more about the event, visit stepupforstefanie.org.

The first annual Turtles Fore Spielman golf outing was held on July 27 at the Little Turtle Golf Club and raised \$45,795 for the Stefanie Spielman Fund for Breast Cancer Research. The event hosted 152 golfers and sold out three weeks prior to the event date. Chris Spielman spoke to the crowd before the dinner portion of the event. One participating family set up a lemonade stand on the 6th hole during the event and raised \$202 toward the cause. The Little Turtle Poker Group raised \$10,700 of the total donation and is already enthusiastically raising money for next year's event.

In August, the All Ohio Balloon
Festival raised \$5,000 for the
Stefanie Spielman Fund for Breast
Cancer Research through their
Tethered Balloon Rides. For three
days, the organization offered hot
air balloon rides at Union County
Airport in Marysville, Ohio.



2012 Buckeyes Go Pink Game

TOGETHER, WE ARE WORKING TO CREATE A CANCER-FREE-WORLD

The Stefanie Spielman Fund for Breast Cancer Research supports scientific studies that can be translated to innovative patient care at The Ohio State University Comprehensive Cancer Center – James Cancer Hospital and Solove Research Institute (OSUCCC – James). Some of the most talented and experienced researchers in the world are working to find cures for breast cancer at the OSUCCC – James, and all of them share Stefanie's dream of a cancer-free world.



With help from the Spielman Fund, these researchers are creating drugs and developing therapies that bring their ultimate goal of ending cancer closer to reality. Herein, some of these scientists explain their research and how they are assisting in the global battle against breast cancer – a battle we are all fighting with Stefanie in mind.

As you read about their remarkable work, remember that it would not be possible without the generous support of caring people like you.

RESEARCH STRATEGY

The Spielman Fund helps OSUCCC – James scientists advance breast cancer research in numerous ways, including:

- Creation of a Tissue Archive Services and Tumor Bank – collections of healthy and cancerous breast tissue samples that scientists can use for comparison and analysis to uncover elements of cancer formation and develop more successful treatments.
- Development of sophisticated imaging technologies that detect cancer earlier when it can be more effectively treated.
- Identification of treatment targets and the development of drug-therapy regimens that can save lives and give patients a higher quality of life.

TARGETING TRIPLE-NEGATIVE BREAST CENTER

Charles Shapiro, MD, director

of Breast Medical Oncology and leader of the breast cancer research

program at the OSUCCC – James,

make the Spielman Breast Cancer

says the Spielman Fund helped



Shanira

Shapiro

"This invaluable resource provides thousands of

Tissue Bank possible.

^

breast cancer samples from women who received care at The James, along with the types of treatments they received and the results of their outcomes," says Shapiro, a professor of Internal Medicine at Ohio State and member of the Cancer Control Program at the OSUCCC – James.

The Tissue Archive Services and the Tumor
Bank allow for promising genes or proteins that
are discovered in the laboratory using cell lines
or animal models to be quickly tested for their
importance and relevance to human breast cancers
that come from patients.

Examples of research conducted using these resources include the molecular factors associated with estrogen receptor-negative, progesterone receptor-negative and HER-2 negative (or "triple-negative") breast cancers, and the molecular factors associated with tamoxifen resistance. Triple-negative breast cancer (TNBC) accounts for about 15 percent of all breast cancers and has few treatment options.

OSUCCC – James research teams have made important discoveries relating to TNBC using these banks, and their work has led to grants from the National Cancer Institute to further support the research.

One large-scale study supported by NCI grants and the Spielman Fund showed that small molecules

continued on next page...



called microRNAs can be used to define four subtypes of TNBC. The study, led by Shapiro and Kay Huebner, PhD, along with collaborators in Italy, could lead to new screening methods, prognostic markers and targeted treatments for

this often-fatal cancer.

"Treating women with triple-negative breast cancer is challenging because this malignancy can be very different genetically from one patient to another," Shapiro says. "We believe these microRNA signatures define novel subsets of triple-negative breast cancer and offer new insights into the biology of the disease and better ways to treat patients."

"These findings strongly suggest that microRNAs play an important role in TNBC and might be used to better identify the most effective treatment for a patient's tumor," adds Huebner, a professor of Molecular Virology, Immunology and Medical Genetics at Ohio State who is also a member of the Molecular Biology and Cancer Genetics (MBCG) Program at the OSUCCC – James. "MicroRNAs can help us improve and personalize therapies for individual patients."



In another study of TNBC supported by the Spielman Fund, Erin Macrea, MD, an assistant professor of Medical Oncology, is working to determine whether inhibiting the action of a pair of proteins will improve outcomes for patients with

triple-negative disease.

"Our study at Ohio State will be the first phase II clinical trial to evaluate a novel therapeutic strategy for patients with metastatic TNBC," says Macrae, who also is a member of the Experimental Therapeutics Program at the OSUCCC – James.



Ching-Shih Chen, PhD, a professor of Medicinal Chemistry and Pharmacognosy at Ohio State, and his team are developing several new drugs that target triple-negative breast cancer. Their goal is to stop the disease from spreading,

eradicate cancer stem cells and enhance the effectiveness of current therapies.

"In collaboration with Dr. Shapiro, our research focuses on developing new therapeutic strategies to enhance the outcomes in these patients," says Chen, a member of the Molecular Carcinogenesis and Chemoprevention Program at the OSUCCC – James.

Chen and colleagues are trying not only to find therapeutic agents that kill TNBC cells, but to reduce the metastatic capability and stem cell population of these cells. Chen's team is working with different agents that can slow aggression and eliminate chemoresistance in these cells.

"With support from the Spielman Fund, we have developed drugs that target different molecular defects in cancer, which enhances current treatment, slows the progression and prevents the recurrence of the disease," says Chen, noting that these drugs are in preclinical development.

TARGETING CHEMO BRAIN

Spielman Fund revenue also helped a team of Ohio State researchers generate preliminary data that led to an Idea Grant from Pelotonia, the annual grassroots bicycle tour that raises money for cancer research at the OSUCCC - James, to help them study a possible cause and treatment for chemotherapy-induced cognitive deficits.

Nearly a third of breast cancer patients who receive chemotherapy report problems with memory, concentration, attention and understanding during and after treatment. Sometimes called "chemo brain," these deficits can also be a problem for patients treated for other malignancies, including ovarian and prostate cancers. The cause is poorly understood, and there is no treatment.



Lustberg



But Maryam Lustberg, MD, assistant professor of Medical Oncology at Ohio State and a member of the Cancer Control Program at the OSUCCC -James, and Courtney DeVries, PhD, professor of Neuroscience and Psychology at Ohio State, have evidence linking these cognitive difficulties to the overactivity of a type of immune cell in the brain. They have also identified an anti-inflammatory drug called minocycline that might calm the overexcited cells and ease the symptoms.

DeVries

"Our data from an animal model suggest that certain chemotherapy can overactivate brain cells called microglia, and that this contributes to localized inflammation and changes in brain cells," Lustberg says, noting that microglia are involved in neurological disorders such as multiple sclerosis and other neuroinflammatory conditions. "But we believe we are the first to tie them to chemotherapy-induced cognitive deficits."

TARGETING CANCER TUMORS



The laboratory of Michael Tweedle, PhD, a professor of Radiology who holds the Stefanie Spielman Chair in Cancer Imaging and is a member of the Experimental Therapeutics Program at the OSUCCC – James, has developed a drug that not only

detects cancer but also treats it with a radioactive isotope, Lutetium-177, upon discovery.

"It's like a dirty bomb. It kills cancer within just a small space—a millimeter or two," says Tweedle, who adds that this work is continuing with "an improved version of the drug that has fewer side effects and stronger tumor localization."

Tweedle also is making Optical Surgical Navigation imaging agents designed to reduce positive margins after breast cancer surgery. "These agents use the same kind of 'bloodhound' targeting peptide, but with both a PET imaging radiolabel and a second label that emits a fluorescent light that the surgeon can see on a video screen above his or her surgery," he explains.

There is always a need for drugs to treat cancers that have escaped initial diagnosis and evaded treatment. Tweedle's innovative work offers a lifesaving opportunity for patients and provides a model for other labs around the world to utilize.

TARGETING microRNAs

Another important area of study in the search for new breast cancer treatments involves microRNA molecules, which help cells control the amount and kinds of proteins they make. Abnormal levels of certain microRNAs are a hallmark of many cancers.

A study led by researchers at the OSUCCC – James, and supported in part by the Spielman Fund, suggests that an experimental drug known as AS1411 can reduce breast cancer aggressiveness, reverse resistance to a drug called fulvestrant and perhaps improve the effectiveness of other breast cancer drugs. Findings from this study suggest a new strategy for treating breast cancer.



Specifically, AS1411 inhibits a protein called nucleolin that plays a critical role in the microRNA maturation process. "This study of the role of nucleolin in microRNA regulation has clear clinical implications," says Carlo Croce, MD, principal investigator

for this study and director of human cancer genetics at Ohio State. Croce also is a member of the MBCG Program at the OSUCCC – James.



First author Flavia Pichiorri, PhD, assistant professor in the Division of Hematology at Ohio State and a member of the MBCG Program at the OSUCCC – James, notes that nucleolin is a promising therapeutic target for microRNA modulation in

cancer cells. "To our knowledge," she says, "this is the first large study to show a clear association between nucleolin and specific microRNAs that are causally involved in cancer."

YOUR SUPPORT

Our vision at the OSUCCC – James is to create a cancer-free world, a vision that Stefanie Spielman shared. The advancements in breast cancer research and care outlined in this newsletter will benefit not only the people of central Ohio but everywhere by contributing to the global cause against this disease. Even better, improvements in breast cancer treatment will be translated to the care of patients with other forms of this devastating disease. Thanks to your support, we are coming ever closer to realizing our shared vision while offering hope to millions.



Maddie Spielman is now a sophomore at Ohio State with a strong interest in broadcast journalism, most likely in sports. The direction is logical, having grown up in the spotlight alongside her father, Chris, a celebrated Buckeye and NFL football player. Yet, it's her tenacity and grace at age 18 that inspires others as she picks up the cancer fight in memory of her mom, Stefanie, who passed away in 2009 at the age of 42.

Coming Into Her Own

Before university officials and supporters at the Ohio Union, Maddie Spielman helped launch the But for Ohio State campaign on October 4, 2012. She expressed her admiration for her mom and for the care provided by The Ohio State University Comprehensive Cancer Center – Arthur G. James Cancer Hospital and Richard J. Solove Research Institute. Heartwarming photos of her family taken over the years appeared on large screens around the Archie Griffin Ballroom.

"When I think of my parents, one word comes to mind: love," she said. "My mom was the most selfless person I have ever met in my life. And my dad — I probably don't tell him often enough — but he inspires me every day. Yet, it wasn't just how much my mom and

dad loved each other that made our family special. It was how much they loved other people and what they went through to try to help others."

Only 4 years old when her mom's illness was diagnosed, Maddie had the benefit of a strong role model in Stefanie, who showed amazing strength, resilience and an ability to avoid self-pity. Big sister to Noah, 16, Macy, 11, and Audrey, 10, Maddie now lives on campus and fills her time with classes, intramural sports and speaking engagements in support of cancer research.

Being a Buckeye was her first and only choice for a college education. She made the decision, in part, to help sustain her mom's legacy. "I feel like I've been a part of Ohio State all my life, but now I really am a part of it," she said. "My freshman year was more than I ever could have hoped for, and I absolutely love it. The sense of unity and pride you feel as a Buckeye is truly one of a kind.

"The James treats every patient like they treated my mom, with compassion and respect and determination," Spielman said. "I've always felt that cancer will be cured in my lifetime, and when it is, it will be at The James Cancer Hospital and Solove Research Institute."

UPCOMING EVENTS

Rocky Boots: Give Cancer the Boot! Throughout Aug. 2014

Rocky Brands, Inc./Durango will donate \$2 for each pair of specially made breast cancer boots (RD3557) to the Stefanie Spielman Patient Assistance Fund. For more information, visit rockyboots.com.

Kroger Pink Ribbon Campaign

Throughout October

Don't forget to buy your pink ribbon for a dollar at your local Kroger store. In addition, be on the lookout for pink tag items throughout the store, all to support the Stefanie Spielman Fund for Breast Cancer Research.

Spielman Gridiron Classic Throughout October

The Spielman Gridiron Classic is a series of statewide high school football games that take place in the fall. The games showcase Ohio high school teams and create community awareness for the Fellowship of Christian Athletes and the Stefanie Spielman Fund for Breast Cancer Research. Participating teams raise money for their schools as well as for breast cancer research. Chris Spielman will visit the school that raises the most money and host an inspirational school assembly. For information about upcoming games, visit sgcfootball.com.

Pink Ribbon Bagels at Central Ohio Panera Bread® Bakery-Cafes

Throughout October

In conjunction with Breast Cancer Awareness
Month, all central Ohio Panera Bread bakery-cafes
will be supporting the cause with pink ribbon
bagels. A portion of the proceeds from every bagel
sold will benefit the Spielman Fund. You also can
conveniently pre-order them for group events, staff
meetings or parties. Forms will be in stores. Stop by
Panera Bread in October to pick up your delicious
pink ribbon bagel or surprise your colleagues by
bringing bagels to your next meeting!

Heads Up Bands Ongoing Effort

Heads Up Bands™ are non-slip head bands that will keep even the finest or curliest of hair in place. You can purchase authentic Spielman Fund Headbands and 100 percent



of the proceeds from every \$15 band sold will go to the Spielman Fund (at participating stores and online). Heads Up Bands were born from the devastating diagnosis of breast cancer. When your hair grows back with all its crazy curl, these handmade bands are a necessity. Wearers receive many compliments and inquires about these curl-controlling bands, making it clear that the bands turn a negative into a positive! For more information, visit headsupbands.com.

Donatos Pizza

Throughout October

Eat more pizza and support the Stefanie Spielman Fund for Breast Cancer Research! All month long 25 cents will be donated to the Spielman Fund for every large pizza ordered.



Buckeyes Go Pink Football Game Ohio State vs. Penn State

October 26, 2013

You won't want to miss the OSU vs. Penn State pink game this year. We encourage you to wear your PINK to the game. In addition, be sure to Pink-Out your tailgate. Kroger will be awarding prizes for the top 3 pinked-out tailgates and you may see your tailgate on the stadium scoreboard.



COMMUNITY AND CORPORATE PARTNERS RAISE MORE THAN \$1.9 MILLION THIS YEAR!

During the 2012-2013 fiscal year, our Community and Corporate Partners raised \$1,944,597 for the Spielman Funds. Through bake sales, golf outings and many creative endeavors, our partners are vital to the success of the Spielman Funds and are helping further our research and patient care. For more information about how to become a partner, visit us online at spielmanfund.com or call 614-293-9341.

1 Stop Bead Shop	\$111.75
97.1 The Fan's Spielman Scramble	\$24,100.00
97.1 The Fan's Football for Females	\$3,805.00
A&T's Hair Studios	\$583.00
Aaron's, Inc. October Jeans Day	\$2,000.00
Accent on Image	\$562.00
All in Against Cancer	\$190.00
Alpha Gamma Rho Classic Steer Show	\$1,000.00
Alpha Rho - Alpha Delta Kappa	\$50.00
Andrew's Moving & Storage Jeans Day	\$623.00
Angel Open	\$47,500.00
Argo & Lehne Jewelers	\$500.00
Arthur Ulrich Company	\$510.00
Baker's Golden Dairy Pink Campaign	\$200.00
Bowl for a Cure	
Bowl for Breast Cancer	\$800.00
Box 15 Breast Cancer Fundraiser	
Brice Christian Women's Cancer Walk	\$525.00
Bricker & Eckler Dress Down Day	\$323.00
Brooks Brothers Shopping Event	
Buckeye Brown Backers	
Buckeye Classics Groupon Sales	
Buckeye Cruise for Cancer	
Cool Tie Dye Pink Block O Tie Dye Sales	\$2,000.00
Fred Meyer Jewelry Sales	
JD Equipment Inc	
KaJo Tailgate	
Michigan Game Auction	
Nickles Bakery	
Notforgotten's Night at the Races	
Rose Butler Jewelry Sales	\$195.00
Buckeyes for a Cure	\$20,000.00
Buckeyes Go Pink	
Burning River Lacrosse	\$14,655.00
C.R.C.I	
Capital Style Subscription Partnership	
Cardinal Health Business Partners	
Cherry Street Chiefs Youth Football	\$929.00
Chicago Title Breast Cancer Fundraiser	
Chix with Stix-2011	
Chix with Stix-2012	
Chris Spielman Canton Ohio Book Signing	\$2,280.00
Chrome Divas Columbus Bike Wash	
City Barbeque Breast Cancer Awareness Month.	
Cleveland Browns Backers	
Cocoa for a Cure	

College Traditions Collection Boxes	\$654.00
Columbus MMA Kali Stick Fighting Team	\$1,502.00
Columbus Real Estate Networking Fundraiser	\$76.00
Complete Nutrition	\$4,363.00
Cookie Throwdown	\$2,011.75
Courage, Conquer & Cure 5k	\$28,643.00
Creative Learning Workshop	\$6,575.69
Crown Lift Trucks Jeans Day	\$140.00
Dairy Queen Breast Cancer Awareness Month	\$1,100.00
Dance for a Cure	\$1,044.00
Dance for Spielman Fund & Dizzy Feet Foundation Capstone Project	\$601.50
Dart Tournament for Stefanie Spielman	\$560.00
Dave McKee-Priority Mortgage Corp	
Facebook Fundraiser	
District 17 OES Cancer Project Walk-A-Thon	
DOC Popcorn International Popping for Pink	
Dominion Homes Golf Outing	\$4,200.00
Donaldson Plastic Surgery Likes for Lives Campaign	¢1 202 00
Donatos Pizzeria Fundraiser	
Eagles Columbus Southside Auxiliary Fundraiser	
Eastwood Softball	\$305.00
Cancer Awareness	\$3,500.00
E-Retailing Associates Breast Cancer Awareness Month	\$740539
Evelyn Locket & Kimley Tyson Memorial Walkathon	
First Community Bank Fundraiser	
Five Below	
Fraternal Order of Eagles Grand Aerie	
Fueling the Cure	
Genoa Township Fire Department Breast Cancer Awareness	
Greenswell Triathlon for Hope	
Greg Schilling Memorial Fund of the Marietta Community Foundation	
H & R Block Nonprofit Referral Program	
Hailee Johnson Pink Ribbon Halloween Costume	
Hannah Jennings Breast Cancer	
Awareness Fundraiser	\$67.72
Heads Up Hairbands- Key Chain Sales	\$550.00
Health Care Logistics Walking Challenge	\$650.00
Holbrook & Manter Employee Fundraiser	\$400.00
Holy Trinity Fundraiser	\$20.00
Honey Creek Block Party	\$2,500.00
Honey Fork Fabrics	\$38.2

Hope Through Research	O Patterson Dental Grins for a Good Cause
Hope's Boutique Cocktail Hour\$7,187.0	O PDI Company Picnic
Iron Pony Breast Cancer Awareness Fundraiser \$229.0	O Peach Tree Books & Gifts Breast Cancer
J.D. Henderson Sports Lounge Golf Outing \$600.0	O Awareness Month\$330.00
Jefferson Women's Golf Association Pretty in Pink	Pennies for Penny 5k
Round Up	
Jersey Mike's Month of Giving	
Just for the Cure of it Poker Run	
Karen Taylor Good Concert	
Kenneth's Hair Salons Breast Cancer Fundraiser \$1,789.4	
Kenneth's Hair Salons Employee Pink Day\$395.0	
Kent Browns Backers Breast Cancer Fundraiser \$2,500.0	Pizza Zone LLC Fundraiser
Key4Women's Forum	6 Polly Biller Memorial Tailgate\$500.00
KJ Tool Kits IncLittle Pink Tools	Precise Leads Breast Cancer Fundraiser
Kristi Frazier's Surprise Birthday Party	Priority Mortgage Pink Ribbon Facebook Campaign\$500.00
Kroger Company	PSC Metals Breast Cancer Fundraiser\$667.00
Bakery Breast Cancer Fundraiser	rany for the care
Breast Cancer Awareness	Nide for the Nibbon
Pink Tag Items. \$134,000.0	Trobertson Fleating Supply So Breast Surfeer / Warefless \$ 1,000.00
Silent Auction\$335.0	Salelile Autoglass i unuraisei
Lair's Hallmark Vera Bradley Ribbons Sales \$250.0	Salety Solutions Diedst Carleer Fariardisci
Laken Curtis Muskingum Livestock Auction	Salon Benni i nik i anaraiser y 100.00
Logan Cancer Support Group\$731.6	Scotch Doubles with a Twist bowling Event
MAC Tool -Wrenching the Cure\$32,000.0	Sharon Warnington Quilt Rame
Mad Dog Golf Outing\$650.0	311pada 1 arty
Mad River Mountain Pretty in Pink	Skate 101 1 10pc 2012
Madison Correctional Institution NAACP Fundraisers \$500.0	3Kate 101 110pe 2010
Madison County Junior Fair	30dtiletti Ottio i GA
Make Bryn Du Pink	ορισιπατή απα Βαποσφο,210.00
Marigold Caps Breast Cancer Awareness Fundraiser \$205.0	Springrill Saltes Orana Opening
Marion USBC Women's Bowling	Scott i rocess Systems inc. Breast Cancer i anaraiser
McDonald's Fundraiser	31. John 3 Women 3 Ministry Women's Celebration \$2,070.00
McDonald's/Macoco LTD 2012 Fundraiser	St. Michael the Archanger Church Breast Cancer
McGraw-Hill Education Breast Cancer	Awareness Fundraiser
Awareness Campaign	0
Mellow Mushroom Breast Cancer Awareness	Stark County One Book One Community Electory Flogram \$145.00
Memories Food & Spirits Pink Party	otate riigiiway ratio Bake sale
Ministry in Marketing\$35,000.0	of the delegated like languite
Nail Trims for the Cure. \$834.5	2 ctcp op 101 dtc/dine
Newark Zonta International BC Fundraiser \$3,500.0	Swing Fore. Carreet Research
	1111111 Heligitters 3k
North Valley Bank October Fundraiser	10ugii Enougii to Wedi i iiiti ioloeoliow
October Research Fundraiser	nane Breast Cancer Awareness Day
Ohio Clerk of Courts Association Winter Conference \$2,521.0	
Ohio Gratings, Inc. Jeans Fundraiser	Olbait Spair unaraiser
Ohio State Association of Emblem Clubs Fundraiser \$1,000.0	volvo i iii. Equipment
Ohio State University Football Women's Clinic\$12,798.0	wante riouse runtataiser
Ohio State University Sandhills Alumni Club	Walk for owder.
of North Carolina	Walmart Women's Conference
Ohio Stingrays Girls Fastpitch Softball\$3,000.0	Walnut Creek Amish Flea Market
Ohio Wolfpack Girls Fastpitch Softball\$400.0	women of the Moose Fundraiser\$300.00
One More Time Breast Cancer Fundraiser	women's international Network of Utility
P & G Softball	1 Tote 3 3 10 1 a 3 2 0 1 1 a 1 a 1 a 1 a 1 a 1 a 1 a 1 a 1 a
Pampered Chef Bingo\$80.7	Worthington Fills Country Club Cusino Night
Pampered Chef Fundraiser	100001100011101110001110111101111111111
Partnerships Make a Difference\$350.0	14goot 10ga1t 0a100 111111111111111111111111111111
Party Yourself Pink Zumba events	n
	TOTAL \$1,841,697.75

I Company Picnic	\$110.00	
ach Tree Books & Gifts Breast Cancer		
vareness Month	\$330.00	
nnies for Penny 5k		
i Gamma Delta-FIJI Rivalry Run		
jskin Parents West Liberty Salem		
ık Light Bulbs		
ık Out Golf Tournament		
ık Out Purdue		
ık Strip Tutu Run		
za Zone LLC Fundraiser		
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ate for Hope 2012		
ate for Hope 2013		
uthern Ohio PGA		
ielman Fund Dance		
ringhill Suites Grand Opening		
ott Process Systems Inc. Breast Cancer Fundraiser		
John's Women's Ministry Women's Celebration	\$2,678.00	
Michael the Archangel Church Breast Cancer	¢E0000	
vareness Fundraiser		
Vincent de Paul Catholic Church Breast Cancer Fundraiser	•	
ork County One Book One Community Literacy Program		
ate Highway Patrol Bake Sale		
ef's Celebrate Life Tailgate		
ep Up for Stefanie		
ring Fore! Cancer Research		
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ugh Enough to Wear Pink Horseshow		
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Ivo Pink Equipment		
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Ilmart Women's Conference		
Inut Creek Amish Flea Market		
omen of the Moose Fundraiser	\$300.00	
omen's International Network of Utility	¢1.000.00	
ofessionals Conference		
orthington Hills Country Club Casino Night		
oo's Tacos Pink Ribbon T-Shirt Sales		
goot Yogurt Sales		
ung Buckeyes of Phoenix Alumni Club	\$6,100.00	

THE HONOR ROLL:

Academic Achievers Raise over \$100,000 for the Spielman Funds!

The Spielman Fund is honored that elementary, middle and high schools have chosen to direct their fundraising efforts to support us. Thank you for helping us get closer to a cancer-free world!

Barrington Elementary Buckeye Bonanza	.\$3.268.5
Bellefontaine City Schools Jeans Day	
Brown Elementary School Fundraiser	
Buckeye Central Local School District	
Chamberlain College of Nursing	
Student Government Association	\$346.0
Clark-Shawnee Student Council	\$66.0
Coshocton High School Pink Out Football	\$525.0
Coventry Local School District	\$1,133.8
Dublin Coffman High School Rock Shop Cornhole Tournament	\$1270
Etna Elementary Hat Day	
Franklin Heights Key Club Pink Bracelet Sales	
Gahanna Lincoln High School Football	
Graham Middle School Hat Day	
Grove City High School Girl's Soccer	
Groveport Madison Breast Cancer Fundraiser	
Harmon Elementary School Student Council	
Harrison High School DECA Students	
Mother's Day Cancer Research	
Heritage Middle School Fundraiser	\$239.8
Heritage Middle School Spirit Week	\$231.2
Hilliard High School Class of '62	\$300.0
Imagine Harrisburg Breast Cancer Awareness	
Immaculate Heart of Mary School Fundraiser	
Jackson City School District	\$40.0
John Clem Elementary School Breast Cancer Awareness	\$160.0
John Glenn High School Soccer	. \$1,876.9
Jones Middle School Fall Production	. \$2,601.5
Karrer & Sells Middle School Breast Cancer Fundraiser	\$100.0
Marysville Lady Monarchs Pink Out	\$700.0
National Society of Collegiate Scholars Fundraising for Cancers	\$505.0
New Philadelphia City Schools	
Newark High School Make a Difference Fundraiser	
Newark Make a Difference Club	
Oakwood High School Student Council Fundraiser	
Ohio Dominican University Wellness Center Fundraiser	
Ohio Northern University Spielman 5k	
Ohio School Boards Association.	
OSU Women's Softball Charity Classic	
Patriot Preparatory Academy Breast Cancer	+,027.0
Dress Down Day	\$520.0

Ridgeview Junior High School Breast Cancer Awareness Fundraiser	\$590.00
Shawnee Lady Braves Basketball Team	
Sisters of Notre Dame Elementary School	
South-Western Career Academy Pink T-Shirt Day	
St. Catharine Dress Down Day	\$225.00
St. Columban School Breast Cancer Awareness Month	\$500.00
St. Francis DeSales High School Breast Cancer Fundraiser	\$1,200.00
Sylvania Southview Swing for the Cure	
eays Valley High School Shoot for the Cure	
The Goddard School Breast Cancer Awareness Month	
Fimken Senior High School Adult Booster Club	\$105.00
Jpper Arlington Boys Hockey Team -Pink at the Rink	\$2,095.2
Jtica Junior High School Pink Out Day	\$160.00
/alley View Christian Schools	\$300.00
Naggoner Road Middle School Fundraiser	\$247.32
Nest Hancock High School Charity Bowl	\$189.0
Westland High School Boys Basketball Team and Key Club	\$200.00
Westland High School Key Club Breast Cancer Awareness	
William V. Fisher Catholic High School Spielman Fundraiser	\$593.00
Zane State College Criminal Justice Club Bake Sale	
Spielman Gridiron Classic	. \$44,076.7
Elgin High School	
Marion Harding Football Pink Out	
Massillon Tiger Booster Club	
Pickerington High School Central Pink Game	
West Jefferson High School Pink Game	\$2,194.10
The Ultimate Goal	
Athens High School Boys Soccer	\$495.00
Bloom Carroll High School Boys Soccer	\$500.00
Bloom Carroll High School Girls Soccer	\$900.00
Granville High School Girls Soccer	\$715.00
Hilliard Darby High School Girls Soccer	\$235.00
Lancaster High School	\$409.00
Salem City School District Girls Soccer	\$1,258.00

Upper Arlington High School Girls Soccer..... West Jefferson High School Girls Soccer.....

Zane Trace High School Girls Soccer \$400.00

HONOR ROLL TOTAL \$102,899.29