

## 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!**



# 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](http://Giveto.osu.edu/Spielman)

#### BY PHONE:

614-293-3752

stefanie spielman  
FUND FOR BREAST CANCER RESEARCH

OSU COMPREHENSIVE CANCER CENTER  
JAMES CANCER HOSPITAL &  
SOLOVE RESEARCH INSTITUTE



VISIT US ONLINE:  
[spielmanfund.com](http://spielmanfund.com)

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

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Sign up to receive the bi-monthly Spielman Fund eNewsletter: [go.osu.edu/SpielmanEmailNewsletter](http://go.osu.edu/SpielmanEmailNewsletter)

## The James



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OSU COMPREHENSIVE CANCER CENTER  
JAMES CANCER HOSPITAL &  
SOLOVE RESEARCH INSTITUTE

R E S E A R C H • E D U C A T I O N • H O P E

# 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 — I believe a cure will be found.

God Bless,

# BREAST CANCER AWARENESS MONTH

**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*

**OCTOBER 6** 1-4 p.m. on the lawn of Chemical Abstracts Service. Register at [go.osu.edu/cancersurvivorsday](http://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.

**OCT 12**  
**Breast Cancer Survivorship Conference**  
 hosted by JamesCare for Life and featuring cancer survivor and author Regina Brett. Call 614-293-6428 or visit [cancer.osu.edu/go/support](http://cancer.osu.edu/go/support) to register.

**OCTOBER 13**  
**Metastatic Breast Cancer Awareness Day**

**OCT 16**  
**National Breast Reconstruction Awareness (BRA) Day**  
 Join The James on Google+ for a special Hangout featuring our breast reconstruction experts.

**OCT 18** **National Mammography Day**

**OCT 17** 9 a.m. – 5 p.m.  
**Hope's Boutique 15th Anniversary Celebration**  
 Call 614-293-9393 to schedule an appointment for a massage or a mastectomy or breast prosthesis fitting.

**OCTOBER 26** **BUCKEYES Go Pink**  
**Ohio State vs. Penn State**  
 Wear Pink! Pink out your tailgate with Kroger! Arrive early for special pink rally items!

## ALL MONTH

**Panera Bread Bakery-Cafés**  
 Proceeds from all pink ribbon bagels sold during October will benefit the Spielman Fund.

**Kroger**  
 Pink ribbon campaign will benefit the Spielman Fund.

**Donatos**  
 Proceeds from all large pizzas during October will benefit the Spielman Fund.

**Sunny 95**  
**Pink with a Purpose**  
 Schedule your James mammogram at one of seven neighborhood stops and receive a \$10 Macy's and a \$20 Polar's Grill gift card. Visit [sunny95.com](http://sunny95.com) to find a Pink with a Purpose event near you.

**CASTO Shopping Centers** Nine central Ohio shopping centers will celebrate breast cancer awareness month with The James.

**Hope's Boutique** Get 25% off all gift items, hats, swimsuits and 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.



*Stefanie's*  
**team of hope**

To join the 2014 Stefanie's Team of Hope Peloton, contact [stefaniesteamofhope@gmail.com](mailto: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 woman 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)
- Genetic Counseling
- Phlebotomy
- Chemotherapy
- Hope’s Boutique
- Psychosocial Services
- Clinical Trials
- Laboratory Services
- Radiation Oncology
- Diagnostic and Nuclear Imaging
- Medical Oncology
- Reconstructive Surgery
- Nutrition Services
- Survivorship Classes
- Oncology Rehabilitation
- 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.)



# THANK YOU



**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 [stefscelibratelifetailgate.org](http://stefscelibratelifetailgate.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 on-mountain 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 [jdequipment.com](http://jdequipment.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](http://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](http://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



Shapiro

**Charles Shapiro, MD**, director of Breast Medical Oncology and leader of the breast cancer research program at the OSUCCC – James, says the Spielman Fund helped make the Spielman Breast Cancer Tissue Bank possible.

"This invaluable resource provides thousands of



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...*



Huebner

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.”



Macrea

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 Macrea, who also is a member of the Experimental Therapeutics Program at the OSUCCC – James.



Chen

**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



Tweedle

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.



Croce

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.



Pichiorri

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.



*“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.”*

— MADDIE SPIELMAN

## THE SPIELMAN LEGACY

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](http://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](http://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](http://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.

