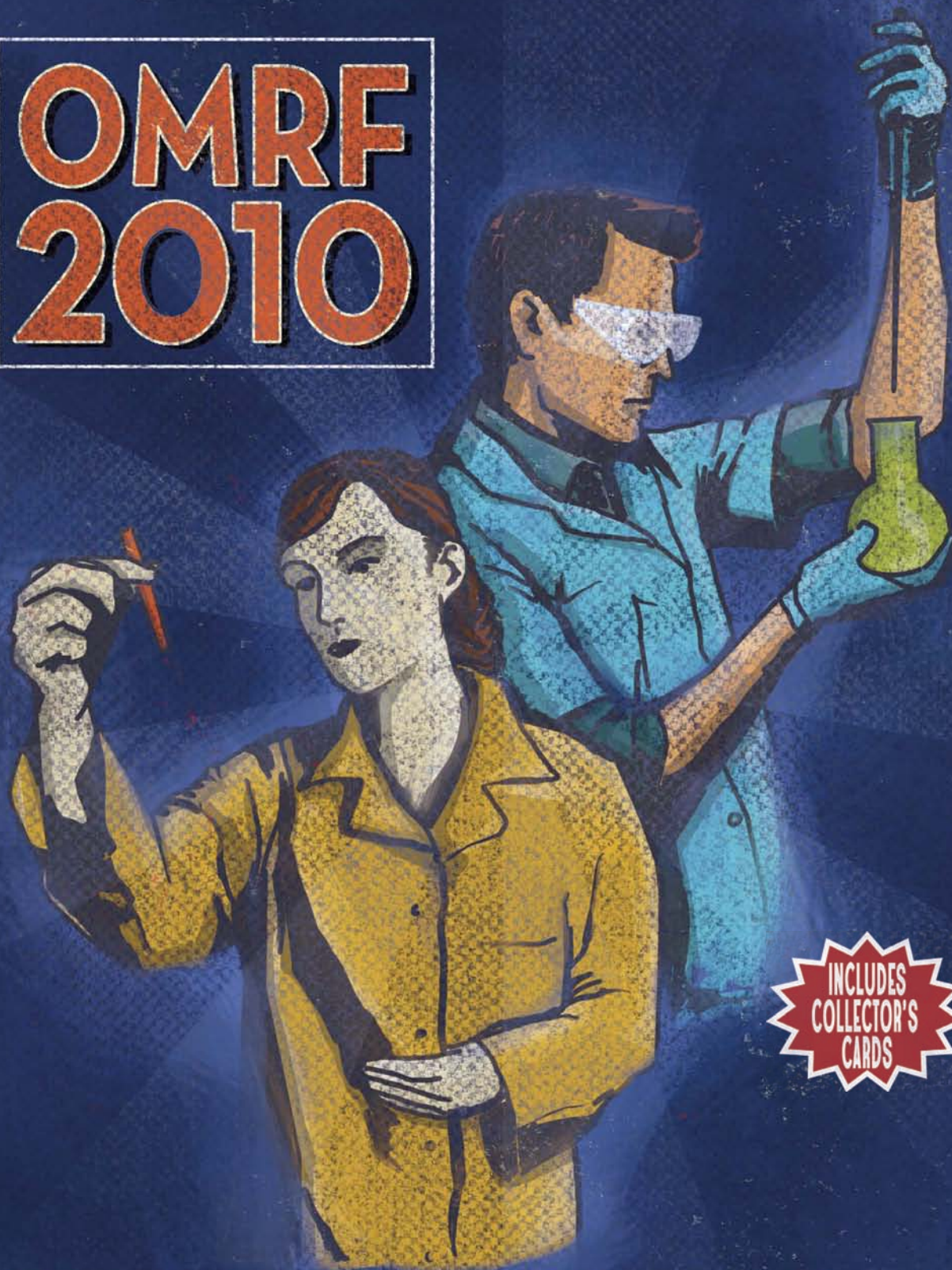


OMRF 2010



INCLUDES
COLLECTOR'S
CARDS

SOUVENIR PROGRAM

WHEN YOU THINK OF TEAM SPORTS, WHAT COMES TO MIND?

FOR ME, IT'S MEDICAL RESEARCH.



Behind every discovery is a team of scientists who have pooled their talents in service of a greater goal. Each brings a different expertise to the project: biochemistry, immunology, cardiovascular biology, biostatistics. By combining their skills, they are able to solve problems that no one of them alone could crack.

Yes, as in athletics, there are stars. These are the innovators, the “big picture” women and men who develop the hypotheses that ultimately lead to breakthroughs. Yet they do not work in a vacuum. They rely on colleagues, graduate students and technicians to help translate their ideas into concrete findings. These are the people who perform the experiments, who analyze the samples, who take concepts that are sketched out on whiteboards and make them real.

In the pages that follow, you’ll find a collection of virtual OMRF trading cards. If, like me, you collected such keepsakes as a kid, these will take you back.



Although this set lacks the requisite bubble gum, it features some of OMRF's league leaders. These are the scientists who are hitting the ball out of the park time and again. And with every swing of the bat, they are bringing us closer to new treatments for Alzheimer's, lupus, heart disease and cancer.

At OMRF, we're lucky to have talent at every position. A strong pitching staff. And a deep bench. Not all of these players got their own cards. But without them we couldn't win games.

Growing up, I enjoyed swapping baseball cards with my friends. As I looked through this collection, I found myself wondering whether I'd trade a Chuck Esmon for a Jordan Tang, a Judith James for a Rod McEver.

Luckily, I don't have to make those kind of choices. At OMRF, we've already assembled quite an all-star team.

Stephen M. Prescott, MD

LEGEND

JORDAN TANG, PhD

BORN: TAIPEI, CHINA JOINED OMRF SCIENTIFIC STAFF: 1966

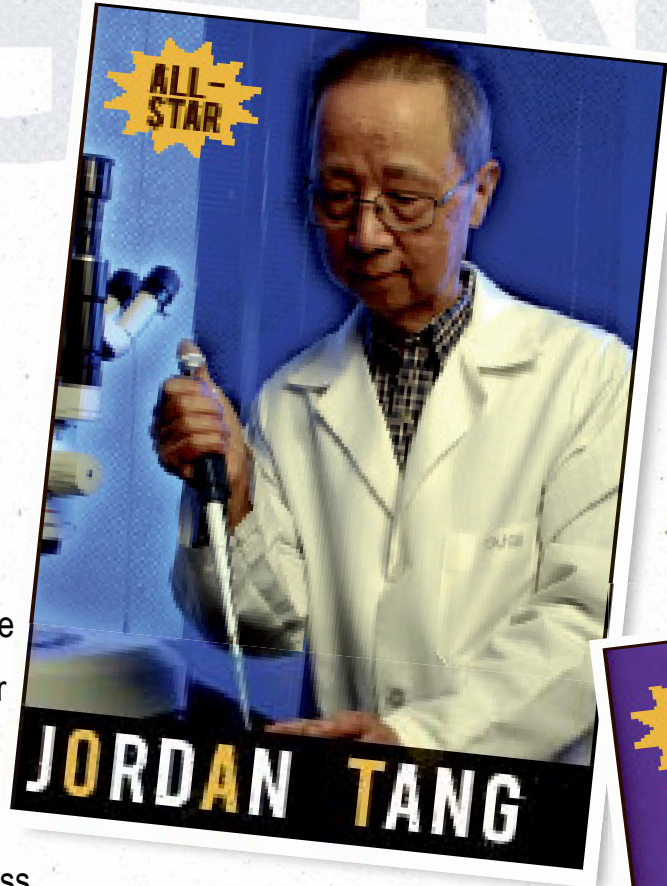
COLLEGE:

TAIWAN PROVINCIAL COLLEGE

GRAD SCHOOL:

UNIVERSITY OF OKLAHOMA

One of the world's leading Alzheimer's disease researchers, Dr. Tang had another banner year in 2010. Working with scientists at Purdue University, he developed an experimental compound that was shown to reduce memory loss and Alzheimer's-causing plaques in mice genetically engineered to develop the illness. Meanwhile, another drug Dr. Tang helped develop is progressing through human clinical trials. "Alzheimer's is a complicated, multi-faceted disease," he says, "so it's important to press forward on as many fronts as possible."



IDS

CHARLES ESMON, PhD

BORN: CENTRALIA, IL

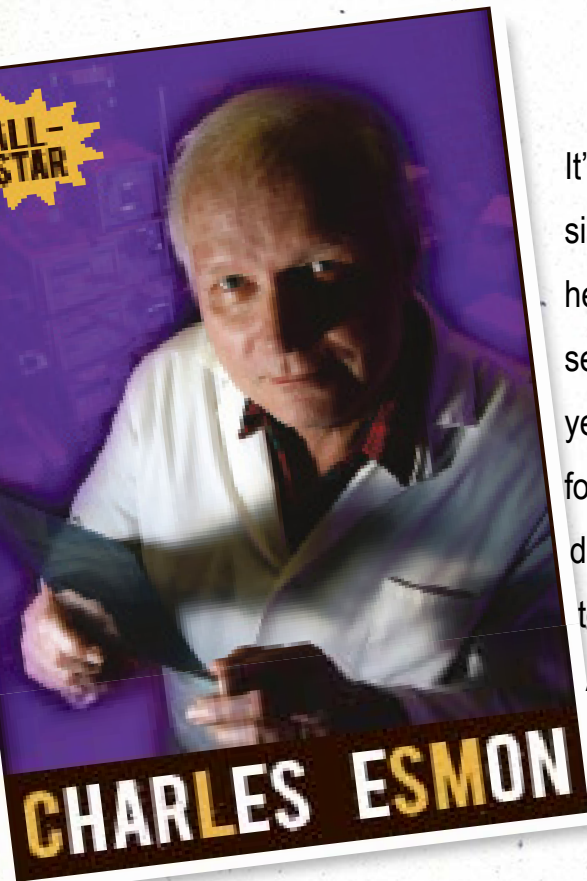
JOINED OMRF SCIENTIFIC STAFF: 1982

COLLEGE:

UNIVERSITY OF ILLINOIS

GRAD SCHOOL:

WASHINGTON UNIVERSITY, ST. LOUIS



UNDER THE SEA



CHUCK HAS GONE
SCUBA DIVING ALMOST
200 TIMES.

It's extremely rare for a scientist to discover a single new drug. But Dr. Esmon has done it twice. First, he helped create Xigris for the treatment of severe sepsis, which kills more than 200,000 Americans each year. Then he discovered Cepro™, a therapeutic for patients suffering from a life-threatening protein deficiency. In recognition of his "historic" contributions to cardiovascular research, the American Heart Association awarded Dr. Esmon its 2010 Basic Research Prize. His work, said Heart Association President Ralph Sacco, "makes a vital connection" to patients' lives.

PAIR-FE

DYNAMIC DUO

PATRICK GAFFNEY, MD • KATHY MOSER, PhD

In 2010, Drs. Moser and Gaffney led the largest genetic experiment ever done in the field of lupus research. The OMRF scientists analyzed massive amounts of data gathered from 15,000 blood samples donated by patients with lupus, a disease in which the immune system mistakenly turns its defenses against the body. Working with scientists from 33 institutions in Spain, Colombia, Canada, England, Sweden, Puerto Rico and the U.S., the scientists identified a genetic variant associated with lupus and, potentially, heart disease and certain kinds of cancer.



NOW
PRESENTING...



KATHY TOOK UP PIANO AT THE AGE OF 4 AND PLAYED COMPETITIVELY AS A TEEN

LECTION

THE POWER OF TWO

COURTNEY MONTGOMERY, PhD • TIMOTHY GRIFFIN, PhD

Drs. Montgomery and Griffin took very different paths to OMRF. Montgomery is an Oklahoma native who made her way back from Case Western Reserve University in Cleveland. Griffin began life in California and left Duke University to come to OMRF. Both have already made important research contributions at OMRF. In 2010, the Arthritis Foundation named Griffin's paper on obesity and osteoarthritis as the previous year's second most influential publication in the field. Meanwhile, Montgomery has identified a cluster of three genes associated with early-onset colon cancer in families.

WHAT A KICK!



AS A HARVARD UNDERGRAD, TIM PUNTED FOR THE FOOTBALL TEAM

RISE
STARS

MONTGOMERY & GRIFFIN

ALL-STAR

CAROL WEBB, PhD

BORN: CASPER, WY JOINED OMRF SCIENTIFIC STAFF: 1990

COLLEGE:

WASHINGTON UNIVERSITY, ST. LOUIS

GRAD SCHOOL:

UNIVERSITY OF ALABAMA, BIRMINGHAM



When Dr. Webb found a way to reprogram adult cells taken from bone marrow into completely different types of cells, it opened the door to a world of new treatment possibilities. In the shorter term, the discovery could lead to a more efficient process for creating stem cells to treat people with leukemia. Over time, the work might also give rise to new therapies for spinal cord injuries, type I diabetes, heart disease and neurodegenerative conditions like Parkinson's and Lou Gehrig's diseases.

PET(ROLEUM) PROJECT



CAROL GOT HER FIRST TASTE OF SCIENCE DISTILLING CRUDE OIL IN HER FAMILY'S FIREPLACE

STARS

JUDITH JAMES, MD, PhD

BORN: POND CREEK, OK JOINED OMRF SCIENTIFIC STAFF: 1994

COLLEGE:

OKLAHOMA BAPTIST UNIVERSITY

GRAD SCHOOL:

UNIVERSITY OF OKLAHOMA

Dr. James was one of the major reasons OMRF ranked 4th among the 90 members of the Association of Independent Research Institutes for Recovery Act funding in 2010. She spearheaded the effort that secured a National Institutes of Health construction grant to help build out three floors of OMRF's

new research tower, and she also won several other grants to support her research on lupus and

other autoimmune diseases.

Next up: In 2011, she's overseeing the opening of the OMRF Multiple Sclerosis Center of Excellence.

HIGH NOTE



JUDITH AND HER DAUGHTER RECENTLY SANG AT NEW YORK'S CARNEGIE HALL



TIME CA

PAUL KINCADE, PhD

BORN: MOORHEAD, MS JOINED OMRF SCIENTIFIC STAFF: 1982

COLLEGE:

MISSISSIPPI STATE UNIVERSITY

GRAD SCHOOL:

UNIVERSITY OF ALABAMA, BIRMINGHAM

During an OMRF career that's spanned three decades, Dr. Kincade has established himself as one of the country's leading immunologists.

His work studying the development of the human immune system has deepened our understanding of illnesses ranging from childhood leukemias and lymphomas to autoimmune disease. In 2010, he helped establish the Oklahoma Center for Adult Stem Cell Research. As the Center's scientific director, Kincade is leading the state's effort to understand and develop therapeutic uses for adult stem cells.



HOG WILD



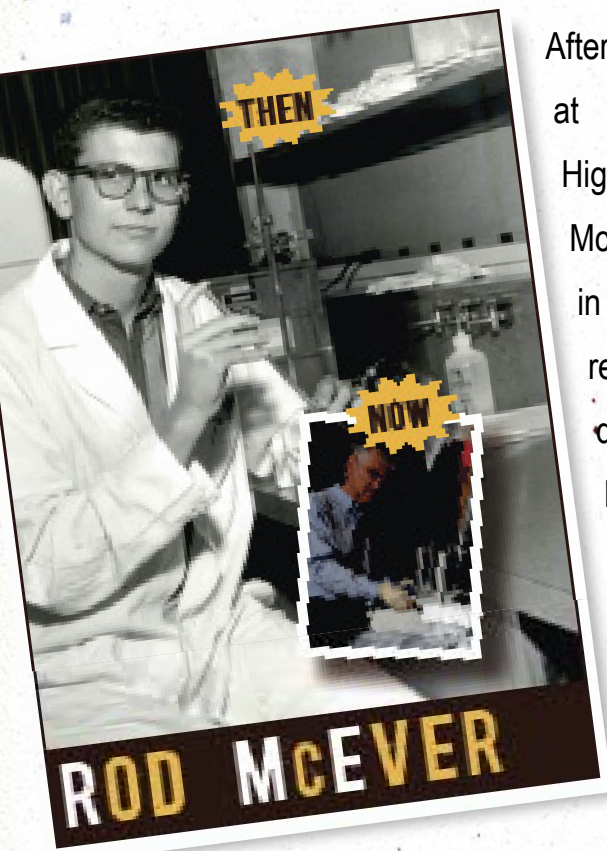
P PAUL RIDES A HARLEY-DAVIDSON

APSULE

RODGER McEVER, MD

BORN: OKLAHOMA CITY, OK JOINED OMRF SCIENTIFIC STAFF: 1987

COLLEGE: _____
YALE UNIVERSITY
GRAD SCHOOL: _____
UNIVERSITY OF CHICAGO



After his junior year at John Marshall High School, Rodger

McEver spent a summer

in OMRF's labs getting his first taste of medical research. But little did young Rod imagine he'd one day return to OMRF as a senior scientist. At OMRF, Dr. McEver has pioneered scientists' understanding of the cellular processes that lead to diseases of the circulatory system. In 2010, he led OMRF's Cardiovascular Biology Research Program as its scientists made key discoveries in areas ranging from traumatic injury heart disease to cancer.

ROAD SCHOLAR



ROD ONCE BET HE COULD RUN A MARATHON IN UNDER 3 HOURS AND 19 MINUTES— AND FINISHED IN 3:18:56!

GENIN

TRIPLE THREAT

COURTNEY GRIFFIN, PhD
JANA BARLIC-DICEN, PhD
HONG CHEN, PhD

In less than three years at OMRF, this trio of scientists has made a major impact at the foundation—and in the world of medical research.

Since joining OMRF's Cardiovascular Biology Research Program in 2008, Drs. Griffin, Chen and Barlic-Dicen have cast new light on how blood vessels develop and how plaques form in arteries. This research could have important implications not only for preventing and treating heart attacks and strokes, but also for controlling tumor growth in breast cancer and other forms of cancer.



BRITISH INVASION



JANA CAME TO OMRF FROM LONDON'S IMPERIAL COLLEGE OF MEDICINE

NEXT



CELLULAR DETECTIVES

LORIN OLSON, PhD
CHRISTOPHER SANSAM, PhD

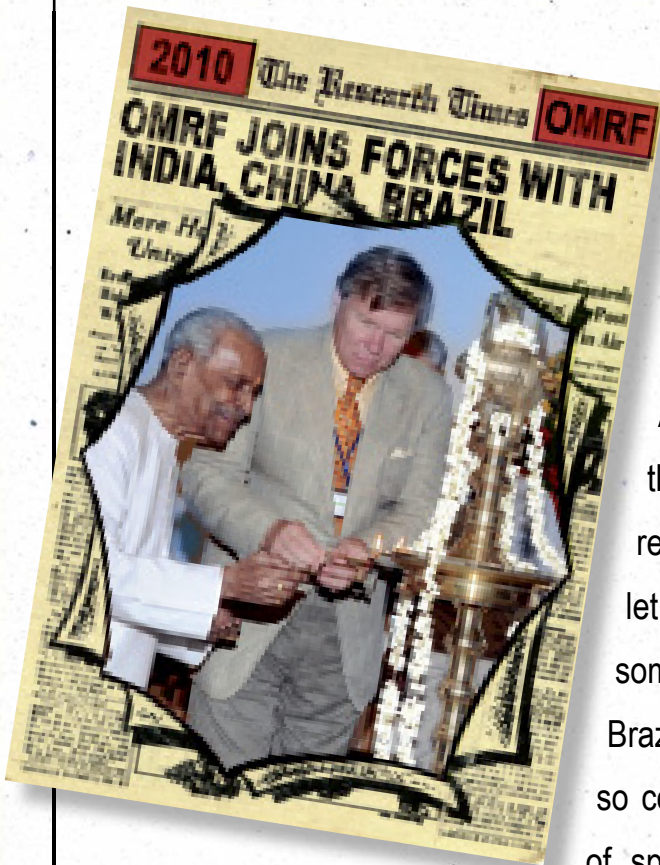
For these two scientists who joined OMRF in 2010, biomedical research means understanding cellular mechanisms that are vital to our existence—but can be deadly when they malfunction. Dr. Sansam examines cell division, a process whose malfunction can lead to cancer or birth defects. Meanwhile, Dr. Olson studies cell signaling, a mechanism of cellular communication that, when it breaks down, can cause cancer and autoimmune conditions like lupus. “If we can understand how these processes go wrong,” says Olson, “that will give us important clues about how to stop these diseases.”

I WANT
MY MUMMY



LORIN'S FIRST BIOLOGY
PROJECT WAS SEQUENCING
DNA FROM 2000-YEAR-OLD
EGYPTIAN MUMMIES

2010 HEA



GLOBAL ALLIANCES

OMRF INTERNATIONAL PARTNERSHIPS

When OMRF formed a strategic partnership with Beijing's Institute of Biophysics at the Academy of Chinese Sciences, it represented the foundation's fourth alliance with a foreign research institute since 2008. These relationships let OMRF share scientists and equipment with some of the leading research institutes in India, Brazil and China. "Because human disease is so complex, it takes researchers across a variety of specialties to make scientific advancements," says OMRF President Stephen Prescott. "Having international partners help us 'fill in the blanks' and speed the process of medical innovation."



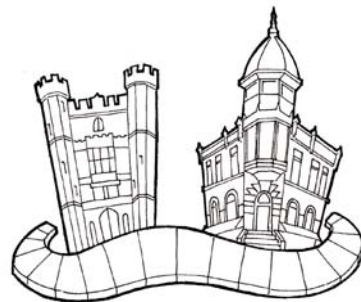
IN 2010, 14 OMRF SCIENTISTS VISITED ONE OF OMRF'S "SISTER" INSTITUTES IN INDIA

AD LINES

GREEN IS GOOD

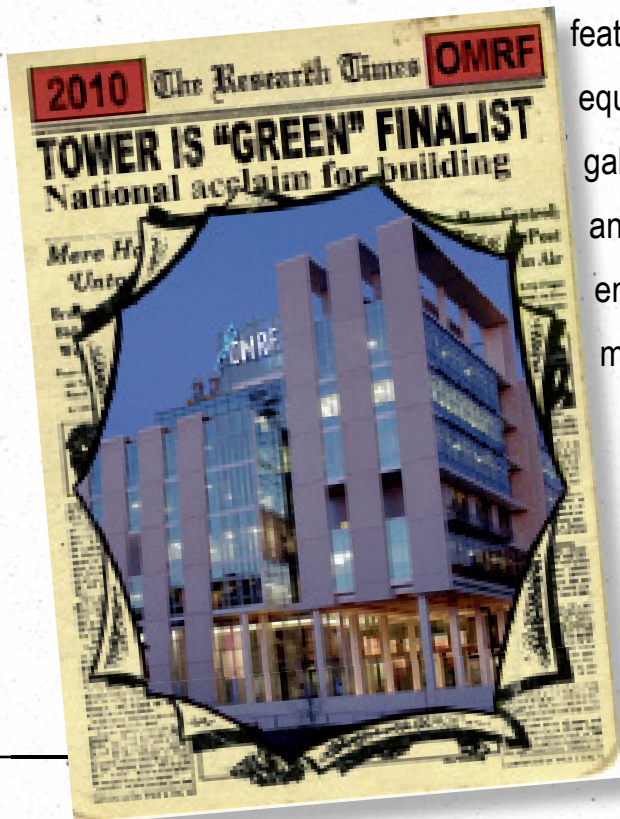
THE OMRF RESEARCH TOWER

2010 opened with OMRF being named as a finalist for the Renewable Energy World North America Award. OMRF was the only Oklahoma institution among the 25 finalists for the national honor. The awards, presented at the Renewable Energy World Conference & Expo North America, recognized cutting-edge programs, projects and technologies in renewable energy. When complete in 2011, the tower's energy-conserving



THERE'S ENOUGH CONCRETE IN THE TOWER TO BUILD A SIDEWALK FROM NORMAN TO GUTHRIE!

features will save the equivalent of 44,000 gallons of gasoline each year and cut annual carbon dioxide emissions by more than 2 million pounds.





Click each date for the full story

Joint project
with Texas rese
prostate ca
Ncer

OMR
partn
with Beijing researchers

\$7
federal gr
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ran
ridy, age 105,
leaves gene
ous estate gift

Leuke
tre
stem from new discover
M
A
Y

the
Arthritis & Rhe
Dr. Timothy Griffi
Journal
matism recognizes
's
r search

In **J**ecting inhibitor
could resc **U**e victims of
automobi **L**e accidents and
traumatic injur **Y**

Dr. C **A**rol Webb
transforms ad **U**lt stem cells
through repro **G**ramming

Clu **S**ter of
colon canc **E**r genes
Pinpointed

OMRF scientist
dis **C**overs
roo **T**s of childhood lupus

New Alzheimer's
breakthr **O**ugh
gi **V**es hope

Dr.
Charles **E**smon receives
Ameri **C**an Heart Association prize

PRINCIPAL SCIENTISTS



Marta E.
ALARCÓN-RIQUELME



Petar
ALAUOVIC



José
ALBEROLA-ILA



Jana
BARLIC-DICEN



Robert
BARSTEAD



Michael
CENTOLA



Hong
CHEN



K. Mark
COGGESHALL



Dean
DAWSON



Igor M.
DOZMOROV



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DRESSER



Charles T.
ESMOM



Darise A.
FARRIS



Robert A.
FLOYD



Patrick
GAFFNEY



Gary
GORBSKY



Courtney
GRIFFIN



Timothy M.
GRIFFIN



Kenneth M.
HUMPHRIES



Farhat
HUSAIN



Judith
JAMES



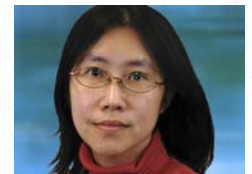
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KINCAID



Michael T.
KINTER



Susan
KOVATS



Hui-Ying
LIM



Florea
LUPU



Rodger P.
M'EVER



Joan T.
MERRILL



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Kathy
MOSER



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NATH



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TAYLOR



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TESIRAM



Linda
THOMPSON



Rheal A.
TOWNER



Weidong
WANG



Carol F.
WEBB



Jonathan
WREN



Lijun
XIA



Stephen M.
PRESCOTT, PRESIDENT

HONOR ROLL

Click to zoom in or out.

Between January 1, 2010, and December 31, 2010, more than 7,000 individuals, corporations, foundations and organizations made gifts and pledges to OMRF. Each one of those donations made a difference. In this Honor Roll, we have recognized gifts of \$500 and above.

\$5,000,000 and above

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THE DISCOVERIES CAMPAIGN

OMRF is poised to play a key role in the revolution of biomedical science that tomorrow will bring. With our staff of world-renowned scientists, we will perform the research that drives the next generation of life-changing discoveries. To this end, OMRF has launched the most ambitious expansion in our 65-year history—the Discoveries Campaign.

The centerpiece of this effort is a new “green” research tower, the first lab building in North America to tap wind energy as a power source. This new structure adds 186,000 square feet of state-of-the-art scientific and administrative space and serves as a home to the most precious resource in biomedicine: human capital.

We have set the total fundraising goal for the Discoveries Campaign at \$125 million: \$85 million to construct and furnish the building and \$40 million to recruit 30 world-class scientists and equip their labs. Achieving this goal will ensure that Oklahoma stays on the leading edge of biomedical research. And that OMRF scientists continue making discoveries that make a difference.

\$5,000,000 and above

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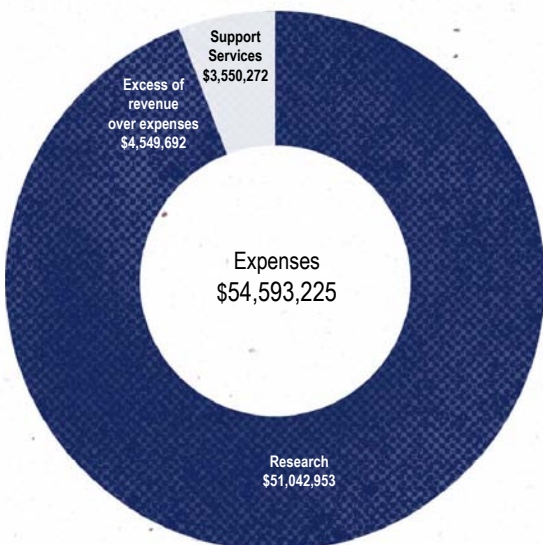
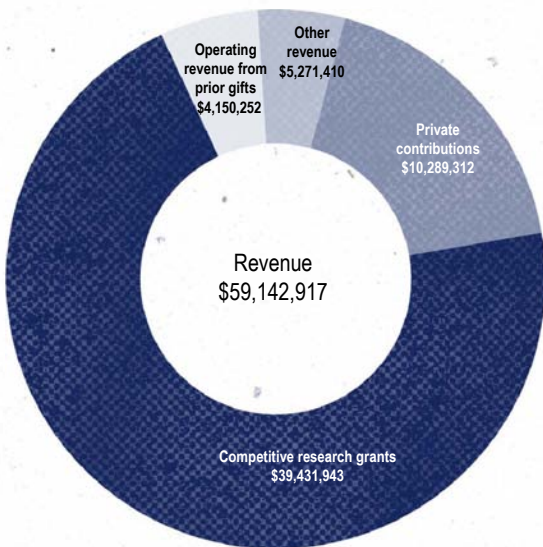
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FINANCIAL SUMMARY

For the ninth consecutive year, OMRF has received the highest possible rating from Charity Navigator, the nation's largest charity evaluator. Using publicly available financial information, Charity Navigator promotes intelligent giving by providing report cards for U.S. and international charities.

"As the nonprofit sector continues to grow at an unprecedented pace, savvy donors are demanding more accountability, transparency and quantifiable results from the charities they choose to support with their hard-earned dollars," said Ken Berger, President and CEO of Charity Navigator. "This 'exceptional' designation from Charity Navigator differentiates Oklahoma Medical Research Foundation from its peers and demonstrates to the public that it is worthy of their trust."



OPERATING REVENUE:

| | |
|--------------------------------------|-------------------|
| Competitive research grants: | |
| National Institutes of Health grants | \$ 31,179,138 |
| Other competitive research grants | <u>8,252,805</u> |
| Total grants | 39,431,943 |

Private contributions:

| | |
|------------------------------------|-------------------|
| Income and gifts from trusts | 7,008,283 |
| Gifts & bequests | 1,133,001 |
| Contributions | 1,527,446 |
| Memorials | <u>620,582</u> |
| Total private contributions | 10,289,312 |

Other revenue:

| | |
|--------------------------------|------------------|
| Interest and investment income | 2,251,182 |
| Mineral income | 859,380 |
| Rent | 620,620 |
| Royalties and licensing income | 563,209 |
| Other | <u>977,019</u> |
| Total other revenue | 5,271,410 |

Total revenue 54,992,665

Operating revenue from wills, pledges, and other restricted gifts recorded in prior years 4,150,252

Total operating revenue 59,142,917

OPERATING EXPENSES:

| | |
|---|-------------------|
| Program Services - Research | 51,042,953 |
| Support Services - General and administrative | <u>3,550,272</u> |
| Total operating expenses | 54,593,225 |

Excess of revenues over expenses \$ 4,549,692

SELECTED PUBLICATIONS

ADVANCED MAGNETIC RESONANCE

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Gray-McGuire C, Guda K, Adrianto I, Lin CP, Natale L, Potter JD, Newcomb P, Poole EM, Ulrich CM, Lindor N, Goode EL, Fridley BL, Jenkins R, Le ML, Casey G, Haile R, Hopper J, Jenkins M, Young J, Buchanan D, Gallinger S, Adams M, Lewis S, Willis J, Elston R, Markowitz SD, Wiesner GL. Confirmation of linkage to and localization of familial colon cancer risk haplotype on chromosome 9q22. *Cancer Res* 70:5409-5418, 2010.

Heinlen LD, McClain MT, Ritterhouse LL, Bruner BF, Edgerton CC, Keith MP, James JA, Harley JB. 60 kD Ro and nRNP A frequently initiate human lupus autoimmunity. *PLoS ONE* 5:e9599, 2010.

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Sanchez E, Webb RD, Rasmussen A, Kelly JA, Riba L, Kaufman KM, Garcia de la Torre I, Moctezuma JF, Maradiaga-Ceceña MA, Cardiel-Rios MH, Acevedo E, Cucho-Venegas M, Garcia MA, Gamron S, Pons-Estel BA, Vasconcelos C, Martin J, Tusié-Luna T, Harley JB, Richardson B, Sawalha AH, Alarcón-Riquelme ME. Genetically determined Amerindian ancestry correlates with increased frequency of risk alleles for systemic lupus erythematosus. *Arthritis Rheum* 62:3722-3729, 2010.

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Liu Z, Miner JJ, Yago T, Yao L, Lupu F, Xia L, McEver RP. Differential regulation of human and murine P-selectin expression and function in vivo. *J Exp Med* 207:2975-2987, 2010.

Popescu NI, Lupu C, Lupu F. Extracellular protein disulfide isomerase regulates coagulation on endothelial cells through modulation of phosphatidyserine exposure. *Blood* 116:993-1001, 2010.

Starr ME, Ueda J, Takahashi H, Weiler H, Esmon CT, Evers BM, Saito H. Age-dependent vulnerability to endotoxemia is associated with reduction of anticoagulant factors activated protein C and thrombomodulin. *Blood* 115:4886-4893, 2010.

Yago T, Fu J, McDaniel JM, Miner JJ, McEver RP, Xia L. Core 1-derived O-glycans are essential E-selectin ligands on neutrophils. *Proc Natl Acad Sci U S A* 107:9204-9209, 2010.

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Bardhan A, Chuong H, Dawson DS. Meiotic cohesin promotes pairing of nonhomologous centromeres in early meiotic prophase. *Mol Biol Cell* 21:1799-1809, 2010.

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Wang F, Dai J, Daum JR, Niedzialkowska E, Banerjee B, Stukenberg PT, Gorbisky GJ, Higgins JM. Histone H3 Thr-3 phosphorylation by haspin positions Aurora B at centromeres in mitosis. *Science* 330:231-235, 2010.

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Flibotte S, Edgley ML, Chaudhry I, Taylor J, Neil SE, Rogula A, Zapf R, Hirst M, Butterfield Y, Jones SJ, Marra MA, Barstead RJ, Moerman DG. Whole-genome profiling of mutagenesis in *Caenorhabditis elegans*. *Genetics* 185:431-441, 2010.

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An G, Miner CA, Nixon JC, Kincade PW, Bryant J, Tucker PW, Webb CF. Loss of Bright/ARID3a function promotes developmental plasticity. *Stem Cells* 28:1560-1567, 2010.

Hu T, Simmons A, Yuan J, Bender TP, Alberola-Ila J. The transcription factor c-Myb primes CD4(+)CD8(+) immature thymocytes for selection into the iNKT lineage. *Nat Immunol* 11:435-441, 2010.

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