

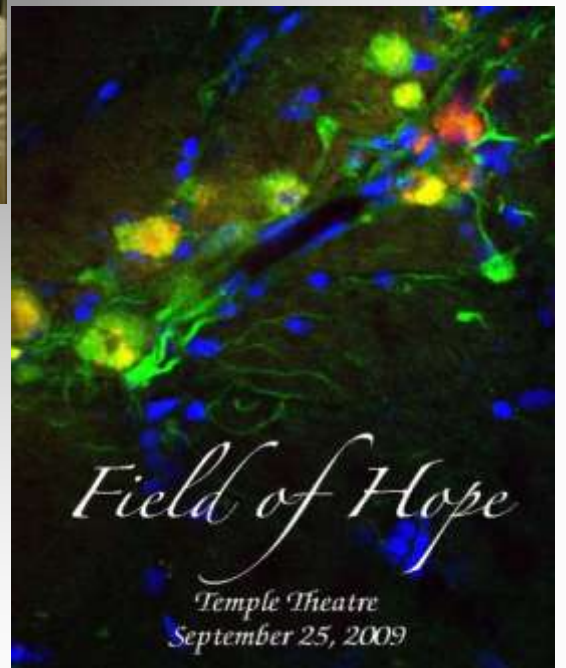


FIELD NOTES

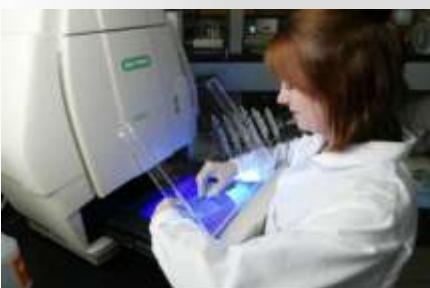
FIELD NEUROSCIENCES INSTITUTE

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Field of Hope
Temple Theatre
September 25, 2009





My View

E. Malcolm Field, M.D., D.Sc.

FNI Research Initiatives: A Vision for the Future

***E. Malcolm Field, M.D.,
Medical Director***

I am delighted to announce some new and exciting initiatives that our researchers at FNI are developing. Most of these initiatives involve cutting-edge

technologies in the area of genetic engineering and the use of adult stem cells as potential therapies for trauma and disease of the brain and spinal cord. These initiatives are being supervised by FNI's new Executive Director, Dr. Gary Dunbar and most of the projects are being conducted with an experienced international team of FNI researchers, including Drs. Ming Lu (from China), Julien Rossignol (from France), and Dr. Nicholas Dey (from Saginaw).

In neurosurgery, we strive to provide our patients with the best and most comprehensive care possible. However, recovery from some forms of brain damage remains impervious to the best treatments that are presently available. In a concerted effort to expand our treatments for these intransient cases, our team of researchers at FNI are attempting to push the envelope and to help find more effective therapeutic approaches for aiding the treatment and rehabilitation of patients who succumb to some of the more devastating injuries and diseases of the brain and spinal cord.

Recently, FNI researchers, working in collaboration with scientists at a world-leading stem cell research center in Nantes, France discovered a new way to increase the survival and reduce the chance of rejection of transplanted adult stem cells. Their findings have been published in a recent issue of the *Journal of Cellular and Molecular Medicine*. The FNI research team is also completing a study in which adult, bone-marrow-derived stem cells (that have been genetically altered to produce greater amounts of two important brain proteins--nerve growth factor and brain derived neurotrophic factor) were transplanted into the brains of transgenic mice, which carry the mutant gene for Huntington's disease, a neurodegenerative disorder that causes severe problems with mobility, memory, and emotional control. The FNI team found promising results with this novel approach for using adult stem cells as special carriers, or vectors, of important proteins that are able to reduce the neuronal dysfunction and behavioral deficits associated with neurodegenerative diseases.

More recently, some exciting new developments in research at FNI could provide important insights into the potential of using a genetically-altered type of adult stem cells as therapy for a variety of neurological disorders. Presently, researchers at the FNI labs at Central Michigan University and in Saginaw are focusing on establishing a line of inducible pluripotent stem cells (iPSCs), which are adult stem cells, usually taken from the skin, and genetically re-programmed to take on a more "embryonic-like pluripotency"—which simply means the iPSCs would gain the ability to be converted into almost any type of cell in the human body. This team takes a skin sample from both mice and humans, separates out the stem cells from the tissue, and then uses a virus to infect the cells with four specific genes which convert the adult stem cells into iPSCs. The iPSCs are allowed to expand (multiply) in a culture dish in a chemical environment that will tease the cells to take on a desired lineage, such as neurons or cartilage, which can then be transplanted into a diseased or damaged brain or into degenerating intervertebral discs. Although these methods are very exciting, it will take a considerable amount of research using iPSCs in animal models of neurological disorders to adequately assess the safety and efficacy of this promising technique before clinical trials can be started, but our FNI researchers are on the leading edge of this new technology.

Finally, our FNI researchers are also exploring yet another cutting-edge approach for treating neurodegenerative diseases. Researchers in the FNI lab at CMU are using genetic engineering as a means of developing small molecules that will block the production of unwanted or mutated proteins. These small interfering RNA molecules (siRNAs) may prove effective in reducing the amount of mutated protein that is produced in diseases such as Huntington's disease, or they may be used to inhibit the production of cancer-producing proteins, such as those that are thought to be involved in some forms of glioblastomas. FNI researchers are working hard to develop specialized siRNAs and to find novel ways, such as using nanoparticles, to deliver the siRNAs into the brains of experimental animals in therapeutically significant amounts.

The new initiatives at the FNI labs at CMU and in Saginaw and hopefully at Saginaw Valley State University will add to our growing knowledge of which types of therapeutic strategies for the myriad of CNS injuries and diseases hold the greatest promise. Ultimately, it is our fervent hope that we can make a significant contribution in the global effort to find effective treatments to help the millions of people who suffer from debilitating injuries or diseases to the nervous system.

Recognizing a Legend! *Lifetime Achievement Award*



Dr. E. Malcolm Field

St. Mary's of Michigan neurosurgeon Dr. E. Malcolm Field has received a prestigious award for his contributions to the neurosciences. Dr. Field was one of just seven state physicians to receive the Neurosciences Lifetime Achievement Award.

The designation honors an individual with outstanding career achievements in the neurosciences who has also significantly promoted the professional advancement of other young physicians within the field.

Other criteria included demonstrating a high degree of imagination, innovation, and initiative in the pursuit of neuroscience excellence.

The award was presented by the Ascension Health Michigan Ministries.

Congratulations to Dr. Field!



Flying Eagle Lifetime Achievement Award



Spotlight: People of FNI Bill & Deanna Ewald

Bill and Dee Ewald have forged a commitment to the work and research of FNI, since returning to Saginaw

November 2000.

Bill was born and lived in Saginaw from 1945 to 1963, when he graduated from Saginaw High. He went on to graduate from Michigan State University in 1967. In 1973, Bill graduated from Detroit College of Law and returned to Saginaw to practice in the Saginaw County Prosecutor's office with Prosecutor Brady Denton. He is very appreciative of the opportunity Brady provided.

He left Saginaw in 1974 to practice law in Grand Rapids where he eventually became one of three managing partners in a 78-person law firm with offices in Grand Rapids, Southfield, Detroit and San Francisco. After 26 years, he and his wife Dee made a

mutual decision to return to Saginaw, where he now practices as a partner at Braun Kendrick Finkbeiner. Dee has an extensive background in the legal profession and Bill values her observations at court hearings and trials.

A major consideration for Dee and Bill is the quality of health care provided in the area. Bill's mother, Edna Ewald, had been treated by Dr. Malcolm Field for a spinal injury, and was treated by Dr. Gerald Schell when she suffered a stroke. That is when Bill and Dee first began the commitment to share in Dr. Field's dream. Together with the thought that Saginaw was a regional medical center, anchored by St. Mary's Hospital, provided additional confirmation for their move.

As chairperson of FNI, Martha Ann Joseph's relationship with Bill and Dee further expanded their commitment, beyond simply financial, to become involved in FNI's volunteer program. Bill and Dee chaired FNI's Underwriting Committee for the past three years to raise awareness and

financial commitment of the community in support of FNI and its projects for the betterment of the quality of life. *Safely Home* was held October 12, 2007, *Field 'n Phantom* on October 24, 2008 and *Field of Hope* on September 25th, 2009, all at the Temple Theatre. All events were an overwhelming success for the community and FNI. Monies from the 2007 & 2008 Fall fundraiser established scholarships for nursing education in the neurosciences and a Sprinter van, fully accessible and adaptive for FNI staff and volunteers. The 2009 monies will be used to purchase a flow cytometer.

Bill and Dee's respect for the Saginaw medical community, FNI, Dr. Field and Dr. Schell has only been deepened with their experiences. They look forward to continued dedication to the future endeavors of Dr. Field to achieve his dreams.

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A doctor for all our seasons

When his 23-year-old cousin died from a medical condition in the states, Dr. Malcolm Field decided to dedicate his life to medicine.

"I never came for any factor, the university System, Saginaw neurosciences's decision to invest in a high-level, in a hospital that's a position, but position and the advances of others and colleagues alike. He's done amazing work, a couple hundred thousand dollars contribution to his health. He's certified by the state as U.S. president and high-ranking officials, after the completion of his research and his results."

Dr. Field has more than 30,000 patients and performed more than 10,000 surgeries - far more than most highly advanced surgeons, says the 40-year-old Field, who specializes in general neurosurgical, cervical spine surgery and vascular neurosurgery.

"I find a lot of happiness in what I'm doing. The latest project we've had involves pediatric brain cysts, helped some patients or just helped the poor for others."

Incidentally, officials at Saint Mary's Hospital honored Field with the "Spirit of St. Vincent Award" for outstanding service to the community.

"Malcolm has thousands and thousands of grateful patients out there," says Verro D. Dalton, executive director of the FNI Neuroscience Institute, 470 Tupper Court.

Saginas happens every day at Field's home, says Wynn, who reviews the work of the doctors, surgeons and nurses that work in the hospital.

Dr. Field's 20-year-old daughter, Verro, and his wife, Mary, are also involved in the community.

"I don't go anywhere that I don't see the people who I've been with," said Field.

PHOTO BY FIELD-ALAN



Welcome to FNI

By Martha Ann Joseph , Chair FNI Board of Directors

Field Neurosciences Institute welcomes Dr. Gary L. Dunbar, a world-renowned neuroscience researcher and educator, who this past year joined the Institute as it's new Executive Director. Dr. Dunbar shares the passionate and compelling vision of FNI's Medical Director, Dr. E. Malcolm Field - to help the millions of people suffering from neurological diseases, disorders and injuries. Finding cures or effective treatment for those suffering from CNS damage is the prime inspiration and motivation for both, which has been the impetus for bolstering the Institute's state-of-the-art research.

For many years, Dr. Dunbar has been the leader of a Central Michigan University-FNI collaborative partnership leading to exciting progress in many areas, including adult stem cell research. This research is now expanding in the Institute's laboratory here on Towne Centre, along with further collaborations at CMU and many other labs in the United States, France and Germany.

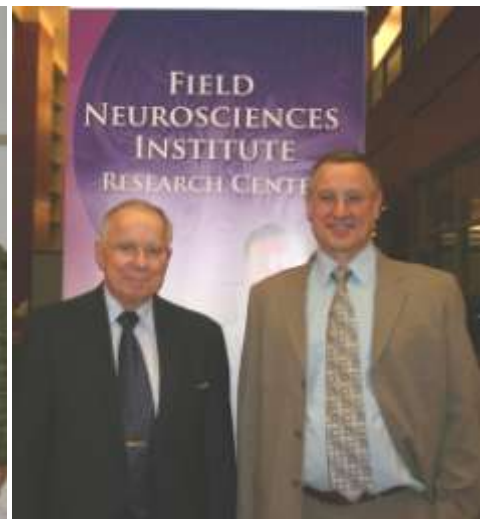
Presently, Dr. Dunbar is the John G. Kulhavi Professor of Neuroscience and Director of the Brain Research and Integrative Neuroscience (BRAIN) Center at Central Michigan University. He is a former President of the Michigan Chapter of the Society for Neuroscience, former President of the Faculty for Undergraduate Neuroscience, Scientific Advisor for the Michigan Chapter of the Huntington's Disease Society of America, and presently is Editor-in-Chief of the Journal of Undergraduate Neuroscience Education. In May, 2009 he was elected as a new Councilor for the American Society for Neural Therapy and Repair (ASNTR) and two years ago, he was honored as an ASNTR fellow of this international organization, which is dedicated to researching new and innovative therapeutic strategies for brain injury and disease and disorders.

With their shared vision, Drs. Field and Dunbar hope to expand translational research, that is taking discoveries from the bench to the bedside. Dr. Dunbar explains, "if, for example, we found that our inducible pluripotent stem cells (adult stem cells) offered a huge advantage over other approaches, we are positioned to set up some of the initial clinical trials with St. Mary's of Michigan's outstanding neurosurgeons - Malcolm Field, Jerry Schell and Naman Salibi." In our FNI lab at Towne Centre, Dr. Dunbar says the key personnel for the stem cell work are Dr. Julien Rossignal, Dr. Ming Lu, Kyle Fink (PhD student), Dr. Nick Dey (FNI Research Scientist), and Patrick Salibi (FNI Research Assistant). Several other student interns also are assisting in the research work.

As the Executive Director of FNI, Dr. Dunbar also oversees many prevention activities, such as stroke screenings and ThinkFirst; clinical trials at the hospital; foundation events, such as our recent *Field of Hope* musical performance at the Temple Theatre this past September 25th; coordination of support groups, i.e., spinal cord injury and MS; and educational grand rounds and seminars. Gary Dunbar and his wife, Deb, live in Bay City and have a grown daughter and son. Gary loves music and hopefully in the near future we'll see a joint musical performance featuring Gary Dunbar and Malcolm Field. Welcome Gary!

Far right: Dr. Field and Dr. Dunbar at CMU.

Left: Martha Ann Joseph, Margaret Clark, Gary Dunbar, Nancy Bow, and Marilyn Dust



FNI to honor the memory of Dr. Verne D. Hulce

Field Neurosciences Institute will honor Dr. Verne Hulce by naming the laboratory at the Towne Centre location in his memory. Dr. Hulce served as FNI's first Executive Director and was responsible for setting up many of the Institute's programs. He will be remembered for his many contributions to research for treatments of neurologic disorders, traumatic brain/spinal cord injury prevention, and his advocacy of promoting professional excellence through education.



Dr. Verne D. Hulce
March 9, 1942 – September 3, 2009

New Faces of FNI



Dr. Naman Salibi has joined the practice of Saginaw Valley Neurosurgery, with Dr. E. Malcolm Field and Dr. Gerald Schell. Dr. Salibi served as Assistant Clinical Professor of Neurosurgery at the University of Pittsburgh Medical Center prior to coming to Saginaw. He also served as Chairman of the Division of Neurosurgery at the Dominican Santa Cruz Hospital and the Community Hospital of Santa Cruz, both in Santa Cruz, California.

Dr. Salibi earned his medical degree from the American University of Beirut, Lebanon. He is certified by the American Board of Neurological Surgery and he is also an active member of the American Association of Neurological Surgeons and the Congress of Neurological Surgeons. He has 24 years of neurosurgery experience and specializes in minimally invasive spinal procedures.

Dr. Salibi has an intense interest in neuroscience research, especially in the efforts to treat degenerative disk disease. He has graciously agreed to serve on the FNI Research Committee.



Dr. Nicholas Dey joined FNI as a research scientist in January of 2009. He is involved in ischemic stroke and degenerative disk research, in addition to working with colleagues from Central Michigan University using viral transfection to induce pluripotency in adult stem cells. Nick was born in Saginaw and graduated from Heritage High School. He received his bachelors degree from Saginaw Valley State University, Master's and Ph.D. in Applied Experimental Psychology from CMU, with an emphasis on behavioral neuroscience.



Cheri Burk recently joined FNI as Operations Manager and will assist Dr. Dunbar with finance and budgetary issues. She will help in fundraising and public relations, including website maintenance and preparing the FNI newsletter for publishing. Cheri received a Bachelor's degree in finance from Saginaw Valley State University and a Master's degree in Business Administration from Central Michigan University. She has several years' experience in computer consulting and accounting and has most recently served as a controller for a local manufacturing company.

Field N' Phantom Fall 2008



E. Malcolm Field Society Spring Gala 2009



Education



SVSU Nursing students (top, in green) assist ThinkFirst at a JumpStart Your Health event, April 2009

Dow and Accenture volunteers assist ThinkFirst at a Safe Routes to School event, September 2009



ThinkFirst at CMU Brain Awareness Day, May 2009. Clock-wise from top right Gary Dunbar, Mary Kunz, Tami Bersano, Kelli Jankens, Nick Dey



FNI Mobile Media Van at the Woman's Expo, October 2009



A young skier with his Caught Being Safe coupon, January 2009

2009 ThinkFirst Highlights

ThinkFirst Saginaw had a stellar year presenting injury prevention programs around Michigan. Despite the challenging economic times and diminishing funds, our staff, volunteers and partners across the state have stepped up their efforts to keep kids safe. Here is a glimpse of where we went and what we did.

In **January** we distributed 15,000 *Caught Being Safe* coupons to 29 ski resorts in Michigan. In **February** we gave away ski helmets at the Shocks and Saves Hockey Game and taught the importance of proper safety precautions to the whole freshman class at Carrolton High School. In **March** we presented *ThinkFirst for Teens* for SADD students in Midland, at Western Middle School in Bay City, and Freeland High School. In **April** we put 800 Saginaw middle school students through a wheelchair obstacle course at SVSU and another 1,000 students through *ThinkFirst for Teens* at Meridian High School, Chesaning High School, and Bullock Creek High School. In **May** we attended the Business Expo at SVSU, Camp Healing Hearts at Seton Cove, a bike rodeo in Standish and a teen program at Windover High School. In **June** we traveled to Chicago for the ThinkFirst Annual Conference, as well as to Hemlock Safety Days, Sebewaing Sugarfest, and Port Austin Kids Day. In **July** we fit helmets at several day care centers, Covenant Neighborhood Picnic, and Lake Huron Credit Union. **August** took us to Cheeseburger Festival in Caseville, Cass City Kids Fest, Healthy You and the Zoo, and the Gladwin Health Fair. In **September** we were featured at Safe Routes to School, 3 Trails in 3 Days, the Cathedral District Picnic, Pinconning Safety Days and the Saginaw Children's Museum. In **October** we went to Beaumont Hospital to host our 7th annual ThinkFirst state conference and spent two days at SVSU for the Women's Expo. In **November** we were busy teaching *ThinkFirst for Kids* in dozens of schools and in **December** we partnered with student nurses and Paramount Rehab to fit helmets at SVSU's Community Youth Day.

We would like to extend special thanks to Drs. Field and Schell for their continuing support as our sponsoring neurosurgeons and to Martha Ann Joseph for her outstanding fundraising efforts.

FNI Van/Mobile Classroom

FNI is proud to present their new mobile media van. This customized traveling classroom is a 2008 170" extended Dodge Sprinter van, decked out with state-of-the-art electronics, a "smart" power inverter, and battery charger. The distinctive feature inside the FNI van is a 50" rear-facing LCD TV that rises with a touch of a button. The stereo and DVD systems are mounted in a customized cabinet covered with a special carpet to enable Velcro applications for displaying educational materials. The van is handicap-accessible and modified for disabled drivers. It has a Braun Millennium lift, hand controls, swivel driver seat and capacity for 2 additional wheelchair passengers, plus a 4-seater rear bench with another 3-seater in storage.

With a bright blue wrap, this rolling billboard features the FNI logo and the faces of FNI representing the pillars of Prevention, Education, Research and Care. The purpose of the van is to serve as an educational platform and distribution center for helmet fittings, stroke screenings and other community programs. The FNI van has been visited by more than 2,000 people around Saginaw, Bay City, Beaverton, Chesaning, Frankenmuth, Gladwin, Midland, Oscoda, Port Austin, Sebewaing, Freeland, Caseville, Vassar, and Cass City.

The purchase of the van and all service contracts were specifically chosen to benefit local and Great Lakes Bay Region businesses.



The new FNI van purchased with proceeds from the 2008 Fall Fundraiser

Multiple Sclerosis Resource Center

Recent initiatives to expand the support for multiple sclerosis patients have led to the creation of the MS Resource Center at FNI. This group meets on the second Tuesday of the month starting at 6:30 p.m. at the Towne Centre Ambulatory Care Center conference room. The meetings offer a variety of topics related to the care and treatment of this disease. Presentations are conducted by physicians, nurses and other specialists who treat MS patients. The mission of the resource center is to provide the most comprehensive information to enhance patients' understanding of the disease and treatments available, thus providing an improved quality of life. Guest speakers this year have been Dr. Ackerman from Michigan State University and Dr. Khachaturian from Providence Hospital in Novi. The room was full for each presentation. This group is growing and attracting more interest from the community.



Multiple Sclerosis Nursing Conference held in Masud Hall at St. Mary's of Michigan

Multiple Sclerosis Nursing Conference

Field Neurosciences Institute was chosen to host one of the three regional conferences for the International Organization of Multiple Sclerosis Nursing. The conference was held on April 25th, 2009 for nurses, advanced practice nurses and physician assistants. There were 179 people who attended. Our location had the highest attendance of the sites (Kansas City, MO and West Henrietta, NY). The speakers for this event were: Mirela Cerghet, M.D., Ph.D., of Henry Ford Hospital, Detroit, MI; Alexander Rae-Grant, M.D., of Mellen Center, Cleveland Clinic, OH; Benjamin Segal, M.D., of the University of Michigan Health System, MI; and Barbara Jahnke M.D., of Saginaw, MI.

Research



Dr. Schell Chairing FNI Research Committee

Dr. Jerry Schell has graciously volunteered to chair the FNI Research Committee. His commitment to research is providing new impetus to FNI's quest for finding treatments for injuries and diseases of the brain and spinal cord. His leadership and contributions are greatly appreciated.

Clinical Research

This December we are celebrating the 11th anniversary of FNI's clinical research program. The following new research investigators have been added: Dr. Dan Duffy, Dr. Debasish Mridha, Dr. Naman Salibi, Dr. Hema Talasia and Dr. Dave Wiersema. This is exciting news for FNI research. The addition of the new investigators will allow us to expand our clinical trial options. We have a variety of clinical research trials currently open to either enrollment and/or follow-up visits for data collection. Below is a list of the current Research Trials.

Current studies enrolling patients

- Cephalon Tramautic Brain Injury (TBI) and Sleep. Seeks patients that have experienced a TBI and have excessive daytime sleepiness.

Research studies in follow-up only

- Mobi-C artificial cervical disc study compares the Mobi-C to standard of care using discectomy and fusion. All patients have completed their one-year, follow-up data collection, which has been extended from 2 years to 5 years for enrolled patients.
- CellDex EGFRvIII GBM, CDX-110 vaccine study. This study is for primary Glioblastoma Multiforme brain tumor patients who have tumor tissue that is positive for epidermal growth factor, variant III. We have enrolled one patient and screened tumors from 5 others. We have been receiving inquiries from other states as well as other regions of Michigan.

Future Research Studies

We have several research studies in various stages of approval that cover the following areas:

- Oral therapy for relapsing remitting multiple sclerosis and an oral therapy for clinically isolated syndrome.
- Opexa Therapeutics Tovaxin. This study is looking to re-open as a phase II-III, we are on the docket to be a site. This is a vaccine study using a biological agent for relapsing remitting multiple sclerosis.

Completed Research Studies

- MOSAIC Thrombin JMI clinical research study that monitors neurosurgical patient's antibody production after exposure to bovine-derived thrombin products.

Pre-Clinical Research

Researchers at the FNI labs in Saginaw and Mt. Pleasant have embarked upon an ambitious five-year plan which is focusing on developing an efficient way of producing induced pluripotent stem cells (iPSCs) to treat a variety of brain disorders, including Huntington's disease, Alzheimer's disease, stroke, and degenerative disc disease. The iPSCs are adult cells which have been genetically manipulated to function like embryonic stem cells. Our hope is that use of iPSCs will negate the need to use embryonic stem cells for treating diseases or injury to the central nervous system (CNS). Our plans are to transplant iPSCs into the area of CNS damage and compare it with other treatments we are testing, as well as to test it in conjunction with these other promising therapies.

Treatments for Huntington's disease

Most of our research on Huntington's disease (HD) and Alzheimer's disease (AD) is being conducted in the Field Neurosciences Institute Laboratory for Restorative Neurology at Central Michigan University (CMU). Dr. Julien Rosignol has been working with students to test the efficacy of transplanting bone-marrow-derived mesenchymal stem cells (MSCs) in rodent models of HD. Based on the previous success of this approach by Drs. Gary Dunbar and Laurent Lescaudron, the FNI researchers at CMU have been able to show that MSCs can produce beneficial proteins that are released from the transplanted MSCs and help to slow the degenerative process in the HD animal models. Drs. Nicholas Dey and Ming Lu have genetically engineered the MSCs to over-express these beneficial proteins, called neurotrophic factors, to augment the benefits of transplanting the MSCs. Drs. Rosignol and Lu, along with a CMU doctoral student, Kyle Fink, are now developing a line of iPSCs by genetically engineering a type of skin cell, called a fibroblast, which they will be transplanting into the brains of HD rodents and assessing its ability to slow the progression of symptoms which are analogous to HD.

Treatments for Alzheimer's disease

Another CMU doctoral student, Jessica Matchynski is conducting research looking at potential treatments in rodent models of AD. Jessica has recently shown that treatments of powerful antioxidants from a highly concentrated cherry source (obtained from Cerise Nutraceuticals in Traverse City, Michigan) tend to reduce some of the deficits in rodent models of AD. Similarly, Steven Lowrance, another CMU doctoral student has shown that use of a substituted pyrimidine may help reduce memory loss in rodent models of AD. FNI researchers plan to compare the efficacy of iPSC transplants with these treatments this coming year.

Treatments for Stroke

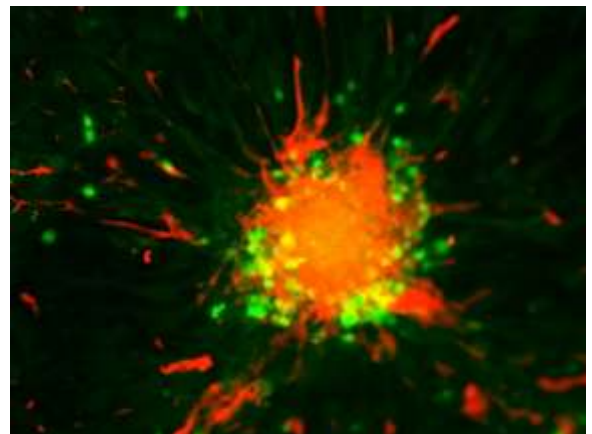
Currently, FNI researchers in Saginaw, led by Dr. Nicholas Dey, are evaluating progesterone as a potential therapy in a cortical neuron cell culture model of ischemic stroke. In order to model stroke in cell culture they use oxygen and glucose deprivation (OGD) which results in cellular dysfunction and death, reminiscent of what is observed in the brain following ischemic stroke. Using this model, they have found that 1 μ M progesterone can increase neuronal survival and cell function. They are currently looking into the possible mechanisms underlying the beneficial effects of progesterone treatment and will be investigating whether co-cultures of MSCs can further enhance cell survival in this OGD model of stroke. In addition, this group has begun work on creating an additional line of iPSCs, using rat adult neural

stem cells (aNSCs). In collaboration with Drs. Gary Lange and Rosalyn Sweeting at Saginaw Valley State University (SVSU) and Steven Lowrance at CMU, Dr. Dey and his colleagues will assess the relative safety of these iPSCs to see if they have a propensity to induce tumor formation, both prior to - and following - transplantation into the rat brain. They will also be evaluating the efficacy of a combination therapy of stem cell transplantation and progesterone treatment to attenuate behavioral changes and cellular death in a rodent model of ischemic stroke.

Treatments for Degenerative Disc Disease

Another FNI researcher, Patrick Salibi, has been establishing a stab model of degenerative disc disease to evaluate the effectiveness of MSCs and iPSCs to repair degenerating discs and the postural abnormalities associated with the disease. Cell culture work at FNI laboratory in Saginaw has shown that MSCs can differentiate into chondrocytes, the cells that compose intervertebral disc, suggesting that these cells may be able to repair damaged discs and serve as a treatment for degenerative disc disease. Patrick will be working with Dr. Gary Lange at SVSU to test the relative efficacy of MSCs and iPSCs as treatments in his rodent model for degenerative disc disease.

This image shows a neurosphere, a cluster of cell composed of adult neural stem cells, with cells beginning to differentiate into neurons (green) and glial cells (red).



The Field Neurosciences Institute Foundation “Field March 2009”

The Field Neurosciences Institute Board of Directors and staff would like to thank each and everyone who has so generously contributed to the mission and vision of the Field Neurosciences Institute throughout the last 20 years. FNI has been honored during the previous year with many memorials and tribute gifts. FNI fundraising events *Safely Home*, *Field ‘N Phantom* and *Field of Hope* were financially rewarding because individuals and corporations, alike, believed in the objectives for those events. The 436 members of the E. Malcolm Field Society have provided financial support of more than \$2,960,000 since the Society’s inception in 1999. This level of commitment and generosity has enabled FNI to provide life-saving educational programs and develop research programs, even through these challenging economic times.

However, the only way FNI can expand our mission to provide people throughout the Great Lakes Bay Region with our education/injury prevention programs, health screenings, pre-clinical and clinical research is through your continued generous financial support. We believe that philanthropy is an integral part of sound financial planning. It is intrinsically rewarding to provide financial support for an important cause. We also believe that planned giving should be discussed with your financial advisor when contemplating a charitable bequest. Transfer of wealth planning is

also becoming an important issue to consider and your financial advisor can help determine the most appropriate means depending on your individual circumstances. A planned gift should be personally and financially rewarding for the generation that follows as well.

Planned Giving

FNI is a named beneficiary for a very generous bequest from the Raymond J. and Monica E. Schultz Trust. Mr. & Mrs. Schultz were long time supporters of FNI and became members of the E. Malcolm Field Society in 1999. We are very grateful for their gift but sadly mourn their passing.

Included in the Emergency Economic Stabilization Act approved by Congress and signed into law on October 3, 2008 is a provision to extend the IRA rollover through December 31, 2009. For those people who are age seventy and a half and over this provision allows a direct pass through to their charity of choice up to \$100,000.

The FNI Board of Directors approved a motion authorizing participation in the 2009 Saginaw Community Foundation (SCF) 25th Anniversary Challenge Grant. The challenge was to raise \$25,000 in new contributions to it’s existing endowment by December

31, 2009. We’re delighted that FNI is already successful in meeting the SCF challenge grant! The SCF will contribute an additional \$10,000 over the next two years. The FNI endowment fund is an important element for building sustainable financial capability to support Institute activities. Contributions made to the FNI endowment fund also carry some attractive tax benefits for the donor.

We sincerely hope you will help us continue the mission and vision of Dr. Field and the Field Neurosciences Institute through your generous financial support. Whether you choose to be a Friend of FNI, a member of the E. Malcolm Field Society, make an IRA rollover distribution or develop a planned giving strategy, your gift will help make life safer and better for the people we serve. It is important to note that contributions are used for FNI programs and program support and not used to pay for staff salaries and benefits. You may also specify what program or purpose your gift will be used and be assured it will be used in that manner.

We also extend an invitation to you to schedule a visit of the FNI facilities, enabling you to experience the highest level of personal satisfaction from your decision to support FNI.

Foundation Grants awarded to FNI in 2009

With our sincere appreciation FNI wishes to thank the following organizations for their belief and support of our programs and mission:

- The Arnold and Gertrude Boutell Memorial Fund awarded \$10,000 in support of ThinkFirst-Saginaw.
- The DALMAC Fund granted \$2,000 for the purchase of bicycle helmets. The DALMAC Fund is supported by proceeds from the annual Dick Allen Lansing to Mackinaw bicycle tour (DALMAC) and is administered by the Tri-County Bicycle Association of Lansing Michigan.
- The John E. Klobucar & Joseph D. Klobucher Foundation (Big John’s Steak & Onion) granted \$1000 in support of ThinkFirst Saginaw.

Field of Hope

Thank you for joining us with our *Field of HOPE!*

HOPE and the promise of HOPE are the motivators for our exciting basic research program under the direction of FNI's new Executive Director Dr. Gary Dunbar. With our adult stem cell research we are looking for cures and more effective treatment for so many devastating neurological diseases. In our FNI lab in Saginaw Township, we have several post-docs along with many student interns working tirelessly toward finding the key for cures and treatment for such disorders as Alzheimer's disease, Huntington's disease, degenerative disc disease and stroke.

On September 25th, 2009, FNI's fall fundraiser, *Field of HOPE*, was presented at the Temple Theatre with stars from the *Best of Broadway* bringing us their popular program, *You Raise Me Up*, featuring some of the most celebrated inspirational songs of all time. Proceeds are being used to purchase a flow cytometer, which Dr. Dunbar says is a state-of-the-art cell-sorting apparatus that will jump start our adult stem cell research by months or even years. Your participation has provided great HOPE for this research!

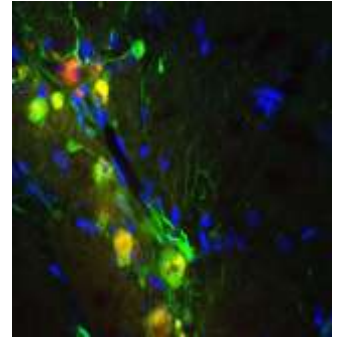
At FNI we embrace HOPE in all our areas of operations. In our clinical programs and services, we look for inspiration from our esteemed medical director, Dr. E. Malcolm Field. Malcolm is a man of great faith, a man of HOPE, a world-renowned neurosurgeon dedicated to excellence of vision and performance. With his kindness, compassion, empathy, tireless work ethic and faith-driven beliefs, he has inspired the FNI team to commit to excellence in all areas. His vision is the Vision of the Institute!

A stand-out for HOPE since April 2008 has been the opening of our CyberKnife to treat those patients with inoperable cancer and benign tumors. Exceeding expectations, over 292 patients have been helped by shrinking and eradicating tumors as well as by relieving pain.

HOPE gives us new buoyancy, boldness and confidence to our many prevention programs, such as ThinkFirst, which teaches children, teens and their families about the importance of preventing debilitating brain and spinal cord injury. Over 12,000 helmets were distributed this past year to people in 10 Michigan counties - a record! Most important, these 12,000 children have been educated on how to use their minds and think first to best protect their bodies; to understand the consequences of risk-taking and taking personal responsibility for one's own actions.

With special resources and support groups, people are being helped to understand and explore new developments associated with their neurological health issues. New HOPE is being given! For instance, in our Multiple Sclerosis Resource Center, patients, families, caregivers and friends are provided with better coping strategies, disease management, knowledge and friendship. Additionally, the Spinal Cord Injury Resource Group meets to discuss adaptive sports and recreation, research trends, coping and adapting with daily living, vocational opportunities and family issues. When spinal cord injured patients are still in the hospital, members of the SCI Resource Group visit them to give HOPE - for the difficult adaptive process for life with a spinal cord injury.

As FNI supporters, you are our *Field of HOPE* team.



The 2009 Field of Hope program cover centerpieces an image of adult neural stem cells which have been transplanted into an injured brain. The yellow colored cells indicate that the transplanted stem cells are becoming neurons that could potentially replace lost brain cells.

— Gary Dunbar, PhD, Executive Director, FNI

*On September 25th,
2009, FNI's fall
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Field of HOPE,
was presented at the
Temple Theatre...*



Field of Hope Fall 2009



Field of Hope Fall 2009



Sixth Annual James E. O’Neill Jr. Memorial Lecture Featured Award-Winning Author Dr. H.W. Brands

On October 22nd, at the Malcolm Field Theater for Performing Arts at Saginaw Valley State University, H.W. Brands presented *Crisis Presidencies: From FDR to Barack Obama*. The presentation was fascinating and valued by all in attendance. The following day, Dr. Brands joined FNI board members and staff for another interesting discussion on presidential histories and a tour of the FNI lab.



Dr. H.W. Brands



Martha Ann Joseph and H.W. Brands



H.W. Brands signing Gary Dunbar's personal collection



Dr. E. Malcolm Field and Dr. Eric Gilbertson

1976 Classic Mercedes-Benz Donated to *Field of Hope* Event

A very generous donation was made this year by a long-time supporter of FNI, Marvin Brandle. The beautiful yellow convertible Mercedes was on display and a silent bid auction was performed at the *Field of Hope* event at the Temple Theater on September 25th. The winning bidder was McDonald Historic Auto Foundation. Proceeds will go toward the purchase of a flow cytometer.

Thank you!



Sons of Italy Hold Raffle to Help FNI

Get your tickets before the end of the year to be a part of this wonderful opportunity to support FNI and The SOI Community Projects. The raffle tickets are for a 52 weekly drawing of \$300 each. Winners will be re-entered so there is no limit on how many times you can win. In addition, only 2,000 tickets will be sold —great odds!

To purchase tickets please stop by the FNI office or call one of the following ticket sellers:

Regina Provenzano 792-3371

Bob Paetz 799-5009

Roccy Gianvecchio 792-5090

Tim Carollo 793-7802

We Welcome Your Support of FNI

We are so appreciative of so many of you supporting FNI and are hopeful that many of you renew your annual E. Malcolm Field Society membership or become a new member. There are many gifting options for review that can be mutually rewarding. At any time, we are welcome to discuss giving options. It may also be very important for you to know that you may target your gift towards the specific program or cause that you would like to support.

If you have any questions or would like to explore other opportunities for getting involved, please contact Gary Dunbar at 989-497-3105, Cheri Burk at 989-497-3118, or Martha Ann Joseph at 989-793-1617.

Thank You for Helping FNI Meet Our Saginaw Community Foundation Challenge Goal

We are most appreciative of the many generous donors who have helped us meet our \$25,000 Saginaw Community Foundation Challenge goal. The SCF will give us an additional \$10,000 for meeting the goal. Thank you to the following donors:

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E. Malcolm Field Society Donor Board



In 2003 The Field Neurosciences Institute honored E. Malcolm Field Society Members by placing their names on a Donor Recognition Board located in the hallway of the Medical Arts Three Building, just outside of the FNI offices. Over the years there have been many additions. We are pleased to report there are now 436 members of the E. Malcolm Field Society. The 2009 additions are: Protector (\$5000 and up) 7 new members; Patron (\$1000-\$4,999) 20 new members; and Peer (\$500-\$999) 10 new donors.

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