



**"I believe that the research achievements of [SJRI] are important. Moreover many Japanese doctors are interested in [SJRI] to work. However, we must not leave the matter that the economical support is highly important for the basic research and preclinical research in any country as well. I believe the unique program of [SJRI] has incredible benefit not only to american companies but also international researchers. I will never forget what I have learned at [SJRI]."**

*Takafumi Ueno, MD, PhD, former SJRI fellow  
Vice President- Fukuoka City Medical Association Hospital*

## The fellowship program includes the following areas of focus:

### CARDIAC INTERVENTION

Studies novel approaches to prevent narrowing of the arteries after coronary angioplasty, including clinical therapies, new stent materials and coatings.

### CARDIAC ELECTROPHYSIOLOGY

Examines the electric activity of the heart related to the formation of new blood vessels (angiogenesis) and heart and muscle regeneration. Other areas of study include developing new technologies in signal interruption, pacing and defibrillation.

### VASCULAR SURGERY

Research studies that focus on the development and preclinical evaluation of peripheral bypass, coronary bypass and blood flow of vascular grafts. Graft materials are composed of traditional fabrics and polymers, and novel biological and synthetic materials. This program is integrated with SJRI's tissue engineering program and focuses on guided tissue adaptation.

### CARDIAC SURGERY

Examines the development of state-of-the-art technologies in the areas of valve replacement and tissue engineering.

### REGENERATIVE MEDICINE

Research assessing the functionality of adult stem cells and cells from the same family under conditions of cell culture. In addition, determines the potential for these cells to migrate and differentiate in response to different stimuli.

The fellowship program consists of three components: a core curriculum, research internship and mentorship.

### CORE CURRICULUM

All fellows are required to complete the core curriculum which includes:

- **Cellular Biology** - The study of molecules or chemical interactions of biological phenomena.
- **Cardiac Electrophysiology** - The study of electric activity associated with the heart's contracting and pumping function.
- **Histology** - The study of minute structures of tissues and organs in relation to their function.
- **Research Ethics** - The rules and standards governing research activities.
- **Practical Activities** - Direct research involvement, manuscript and abstract preparation and protocol development.
- **Statistics** - Methods of analysis and interpretation of quantitative data.

### RESEARCH INTERNSHIP

- Laboratory medicine
- Catheterization procedures
- Cardiovascular surgery
- Cardiovascular molecular biology
- Microscopic image analysis
- Experimental design and protocol preparation
- Grantsmanship
- Medical Writing

### MENTORSHIP

A mentor is assigned to each fellow. Interactions include weekly conferences to review ongoing research and peer-reviewed publications where fellows present research activities.



**950,000 Americans die from heart disease each year.**

**Help in the fight against heart disease.\***

*Saint Joseph's Mercy Foundation supports the research and programs of Saint Joseph's Research Institute. Much of this support is the result of gifts made by individuals who have experienced the effects of heart disease personally or through a loved one. Your gift will help bring improved treatment options for cardiovascular patients and provide hope for those with no other alternatives.*

I would like to make a gift to support Saint Joseph's Research Institute.

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**For further information, call (404) 851-5713.**

*Translational Research*



**SJRI's Mission: Translate the best of science and technology into improved, comprehensive care for the cardiovascular patient.**

*SJRI conducts preclinical and clinical studies funded by grants from the National Institutes of Health, medical device and pharmaceutical industries, and philanthropic individuals and organizations.*

*Through the integration of an interdisciplinary research strategy, clinical collaboration, data collection and education, Saint Joseph's Research Institute is uniquely poised to accelerate the translation of scientific research discoveries into potential clinical therapeutics for the treatment of cardiovascular disease, referred to as bench-to-bedside medicine.*

**Heart disease claims almost as many lives as the next seven leading causes combined.\***

\*Source: American Heart Association, Heart Disease and Stroke Statistics 2006 Update.



***"With the help of donations from people like Mr. and Mrs. Orkin, in the next three to 10 years, we'll see significant quality of life improvements for many patients suffering from cardiovascular disease."***

***Recipient of The Barbara & Sanford Orkin Cardiovascular Research Fellowship, Fernando Tondato, MD former SJRI fellow***

**[www.sjri.org](http://www.sjri.org)**

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**SAINT JOSEPH'S**  
Research Institute



**SAINT JOSEPH'S**  
Research Institute

**INTERNATIONAL  
FELLOWSHIP PROGRAM**



**Translational Research**



**LEADING IN THE FIGHT**  
AGAINST AMERICA'S #1 KILLER: HEART DISEASE

*Education*

**D**espite significant medical advances in research, treatment and diagnostics, cardiovascular disease (CVD) remains the leading cause of death and disability in the western world,

with almost one million people dying annually from the disease. Approximately 70 million Americans have one or more forms of CVD (high blood pressure, coronary heart disease, stroke), and spent more than \$393 billion in 2005 on cardiovascular disease-related medical costs and disability.

In light of these staggering statistics, efforts are continually being made to improve both length and quality of life for CVD patients through better therapies and the development of preventative techniques. Saint Joseph's Research Institute is at the forefront of these endeavors.

\*Source: American Heart Association, Heart Disease and Stroke Statistics 2006 Update.

\*Approximately 70 million Americans suffer from one or more forms of heart disease.

- High blood pressure
- Coronary heart disease
- Stroke

*"My fellowship gave me access to a great research facility and Saint Joseph's Hospital. With the help of the medical staff at Saint Joseph's, I had the unique experience of being able to see a particular need at the bedside and develop a solution through technology and research, to benefit human kind."*

*Michael Fischi*