

Atrial Fibrillation Innovation Center

An Ohio Wright Center for Innovation

Atrial Fibrillation Innovation Center Welcomes

*Newly-Appointed Principal
Investigator – Dr. Steven Nissen*



Dr. Nissen is the Interim Chairman of Cardiovascular Medicine at the Cleveland Clinic Foundation. He is an Ohio native and is known internationally for his coronary artery disease research and his involvement as Medical Director of C⁵, an organization that directs multi-center clinical trials. Dr. Nissen is also known as one of the pioneers of intravascular ultrasound.

*Newly-Appointed
Co-Principal Investigator –
Dr. James B. Young*



Dr. Young is Chairman for the Division of Medicine at the Cleveland Clinic Foundation. Dr. Young has focused his efforts on heart failure and cardiac transplant therapeutics and has secured recognition for the newly emerging subspecialty of “Heart Failure in Cardiac Transplant Medicine”.

The Cleveland Clinic, Case Western Reserve University, and the University of Cincinnati, along with a number of commercial partners received a grant from the state of Ohio to establish the Atrial Fibrillation Innovation Center (AFIC), a Wright Center of Innovation. AFIC falls under Ohio’s Third Frontier human genetics and biomedical engineering initiative with the goal of addressing the great suffering imposed by atrial fibrillation (AF) while catalyzing an emerging Ohio AF medical device industry.

AFIC Objectives

AFIC is organized into five sections, each with specific objectives designed to deliver effective new AF therapies to market. The specific aims of the 5 sections are to:

1. Develop new surgical AF treatment technologies
2. Develop new catheter-based AF treatment technologies
3. Conduct translational studies of genetic, biochemical and cellular mechanisms
4. Devise novel approaches to the treatment of AF
5. Develop methods for the assessment of AF outcomes

SURGICAL THERAPIES



Marc Gillinov, MD
Cleveland Clinic



Randall Wolf, MD
University of Cincinnati



Albert Waldo, MD
Case Western Reserve University

BASIC SCIENCE



David VanWagoner, PhD
Cleveland Clinic

CATHETER-BASED THERAPIES



Andrea Natale, MD
Cleveland Clinic

NOVEL TECHNOLOGIES



Todor Mazgalev, PhD
Cleveland Clinic

ASSESSMENT AND ANALYSIS OF OUTCOMES



Eugene Blackstone, MD
Cleveland Clinic

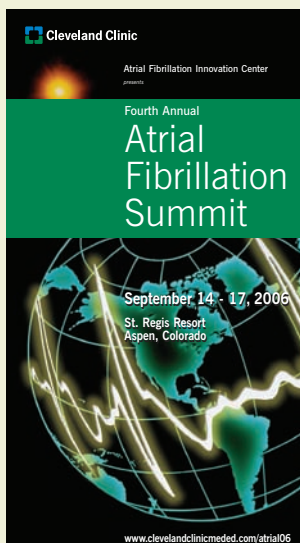
What’s New with AFIC

The Atrial Fibrillation Innovation Center has a website that can be found at www.AFInnovationCenter.org, or accessed thru the Cleveland Clinic Foundation Heart Center website. Please visit our site to find out about AFIC’s uniquely qualified team and the nation’s largest and most innovative clinical programs.

Upcoming Events

State of Ohio Site Visit
Wednesday, June 14, 2006

Scientific Advisory Board Meeting
Thursday, September 7, 2006



Mark your Calendar for the **Fourth Annual Fibrillation Summit September 14-17, 2006** at the St. Regis Resort in Aspen, Colorado. The Summit will cover a broad range of topics including sleep apnea and arrhythmias, biventricular pacing, and rising new technologies. For more information visit www.clevelandclinicmeded.com/atrial06



Check us out online at:

www.AFIInnovationCenter.org

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The Atrial Fibrillation Innovation Center is supported in part by a grant from the State of Ohio's Third Frontier Project

State of the Art – Pre-clinical Facility

The final design has been approved for the Atrial Fibrillation pre-clinical facility at the Cleveland Clinic. The facility will occupy approximately 2200 sq/ft. consisting of two large, state-of-the-art operating suites, pre- and post-operative areas, a room for chronic studies and observation, and a meeting room for pre-post-operative discussion, OR observation and hosting external visitors. This space will be a magnet for device companies because it will be outfitted with state of the art equipment which will allow us to execute pre-clinical research.

Upcoming Projects:

- Principal Investigator Dr. Todor Mazgalev is collaborating with Symphony Medical on a pre-clinical study which will be focused on new AF therapy for post-operative AF.
- Dr. Jennifer Cummings is collaborating with Boston Scientific on a pre-clinical study testing cryogenic ablation technology for AF treatment.
- Principal Investigator Dr. Andrea Natale and Sinus Rhythm Technologies (SRTI) are moving forward on a pre-clinical study examining a novel AF ablation technology.
- Dr. Albert Waldo and his colleagues at University Hospitals of Cleveland, Dr. Ivan Cakulev and Dr. Jayakumar Sahadevan are collaborating with Dr. A. Marc Gillinov on a High Density Mapping surgical project. With the epicardial surface of the heart exposed, arrays with 512 electrodes will generate real-time maps of the atrial activation sequence.

Success Stories

- Drs. William Stellhorn and Chimezie Ogbuji were invited to give a special lecture entitled “Automating the Management of a Semi-structured Database” at the prestigious 2006 Semantic Technology Conference held in San Jose, California in March.
- Congratulations to Dr. Steven Nissen for being elected President of American College of Cardiology (ACC) at the 55th Annual Scientific Session in March 2006. Dr. Nissen’s convocation speech focused on ensuring that patients receive the safest, most effective and economic health care possible.

Scientific Advisory Board for AFIC

The Atrial Fibrillation Innovation Center has selected a three member Scientific Advisory Board (SAB) as follows:

Richard B. Schuessler, PhD
*Director, Cardiothoracic Research Laboratory
Washington University School of Medicine
St. Louis, MO*

Adam E. Saltman, MD, PhD
*Associate Professor of Surgery & Physiology
University of Massachusetts
Worcester, MA*

Ronald D. Berger, MD, PhD, FACC
*Professor of Medicine, Professor of Biomedical Engineering
Director, Cardiac Electrophysiology Training Program
Johns Hopkins Medical Institutions
Baltimore, MD*

As members of the Scientific Advisory Board, these individuals will review and critique research and development progress within AFIC. They will also inform the AFIC team of new technologies and scientific breakthroughs in AF research. The SAB members will meet at least once each year with the AFIC investigators. The first meeting is scheduled for September 7, 2006.