



Changing Lives Through MEDICAL RESEARCH

Providing Hope and Saving Lives...



www.mmrl.edu
development@mmrl.edu

The **MASONIC MEDICAL RESEARCH LABORATORY'S (MMRL)** legacy of scientific breakthroughs has helped to generate new heart medications and develop diagnostic procedures for the management of cardiac arrhythmias, and has aided in the advancement of life-saving technologies. We are deeply indebted to all who have supported us in the past and invite all of you to join our growing family of friends. As a partner in our research, you can have a direct role in improving your future health and that of your loved ones.

WHAT WE DO

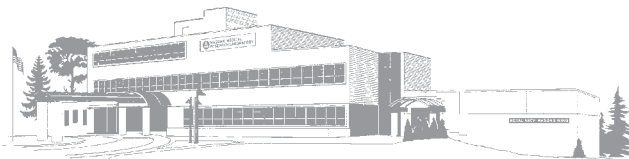
We **provide hope** to the millions of individuals worldwide who are afflicted with heart disease. Our **innovative cardiac research** is aimed understanding the root cause or genetic basis of abnormal rhythms of the heart and other forms of heart disease. We **provide the answers** necessary to develop the cures and treatments of tomorrow.

WHY WE DO IT

To **save lives** and **improve the quality of life**. As a result of our cutting edge research, and that of other laboratories, we have **reduced the incidence of heart disease** by over 30% in the last decade alone. We have been instrumental in providing knowledge necessary for the implementation of the pacemaker, implantable cardioverter defibrillator (ICD) and automatic external defibrillator (AED) as well as the **development of heart medications**. These achievements and our discoveries of the genetic cause of several forms of sudden cardiac death have all had a major impact on **improving our quality of life**.

HOW WE DO IT

Eighty-four cents of every dollar received goes directly to cardiac research. The MMRL continually updates and maintains **state-of-the-art scientific equipment**, and seeks to recruit **high caliber investigators**. We **train and educate tomorrow's scientists, researchers and physicians**. Finally, we **educate and raise public awareness** regarding the critical role of basic science to clinical treatment provided to the patient at the bedside.



Things People Say... ABOUT THE MMRL



CYNDIE BAKER

When my daughter, Katelyn began collapsing at 18 months old no one knew she was living with a medical condition that could have killed her at anytime. Once she was identified to have the mutated gene that causes Brugada syndrome the rest of our family was tested. We learned that our 5 year old son also has the disease. Today, Katelyn, Jake and I all have implantable cardioverter defibrillators (ICDs). It is only through medical research at places like the MMRL that eventually physicians will have the tools and knowledge to defeat this syndrome and others. My family and I thank you for your tireless research on behalf of families, such as ours, that are at risk.



MICHAELA GAGNE

*Miss Massachusetts 2006
AHA National Spokeswoman*

About 450,000 people die each year from sudden cardiac death (SCD) and more than 14,000 are children. The possibilities of what can be done since winning my crown are endless. I can support parents who have lost children to SCD or work to support research conducted at the MMRL and other laboratories to prevent unnecessary deaths. I can not find a better issue to fight for than life.



BRIAN NELSON

I was recently diagnosed and treated for the Brugada syndrome after suffering an entirely unexpected attack and am now the recipient of an ICD. I wish to congratulate and thank those who are pushing for an affordable and safe treatment for this life-threatening syndrome. If not for the MMRL, and others like you, I would be living every minute in fear of another attack.



DAVID ROSENBAUM, M.D.

*Chief of Cardiology and Director of Heart and Vascular Research Center
Case Western Reserve University*

Dr. Antzelevitch's contributions are distinct and in many ways unique. I cannot think of any other scientist who has so skillfully brought together apparently disparate disciplines of science to form unique, novel, and practical insights which have so importantly shaped cardiovascular scientific thinking. His discovery of what is now known as Phase 2 Reentry may well be the mechanism responsible in patients with Brugada syndrome. What I find so remarkable is the almost prophetic insight required to recognize the potential importance of a disease mechanism 20 years before the disease was identified. The ability to "connect the dots" in this manner required a special mind. A brilliance that is analogous to DaVinci's invention of the parachute more than 100 years before man's first flight.



DOUGLAS P. ZIPES, M.D.

*Editor-in-Chief, Heart Rhythm
Past-President of the American College of Cardiology*

Dr. Charles Antzelevitch, MMRL Executive Director and Director of Research, is today widely regarded as one of the finest scientists and experimental cardiac electrophysiologists in the world. His leadership has propelled the MMRL into a position of international prominence in the scientific community. Many have benefited and many more stand to benefit from the highly innovative and creative scientific achievements of the MMRL and all involved with this unique facility can take great pride in its stellar achievements.



The MMRL is international in scope and benefit. For its size, there is no other laboratory whose cutting edge research is as productive and influential in the field of experimental cardiology. Today, the MMRL is rapidly becoming an international center for genetic screening of cardiac diseases, especially those involving cardiac arrhythmias. The MMRL is also leading the way in the development of innovative and effective pharmacologic treatment for atrial fibrillation, one of the greatest unmet medical needs in our society today.



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