

# ARDO ILLASTE

## PERSONAL INFORMATION

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Date of birth: 22.06.1982  
Sex: male  
Marital status: married  
Nationality: Estonian  
Phone: +3725202465  
Email: ardo@sysbio.ioc.ee

## EDUCATION

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- PhD student in biophysics, Tallinn University of Technology, Estonia “Determination of Restrictions to Diffusion in Cardiomyocytes” 2008 – 2012 (currently in progress of graduating)
- Master of Natural Sciences *cum laude*, Biophysics – “Mathematical Model of Mitochondrial Energy Metabolism”, Tallinn University of Technology 2007
- Bachelor of Natural Sciences, Engineering physics – “Cellular Automata Model of Heart Muscle”, Tallinn University of Technology 2006
- Secondary education, Tallinn English College, Estonia 2000

## RESEARCH EXPERIENCE

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**Dr. Marko Vendelin** – Laboratory of Systems Biology, Institute of Cybernetics, Tallinn University of Technology, Estonia: Analysis of diffusion restrictions in cardiomyocytes. Experiments of confocal microscope and modeling. PhD studies 2008-2011

**Dr. Eric A. Sobie** – Department of Pharmacology and Systems Therapeutics, Mount Sinai School of Medicine, New York, USA: Calcium handling in cardiac myocytes derived from human embryonic stem cells. Performed experiments on location in New York, USA from January to August 2009 and in October 2010

## INTERNATIONAL SCIENTIFIC CONFERENCES

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Annual Meetings of the Biophysical Society, USA, posters - 2011, 2010, 2009, 2008  
Harden Conference on Mitochondrial Physiology, Ambleside, UK, poster - 2007

## SCHOLARSHIPS & AWARDS

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- DoRa scholarship from 10.2010 – 11.2010 for conducting experiments in Mount Sinai School of Medicine, New York, USA
- Archimedes scholarship from 01.2009 – 08.2009 for exchange research scholar position in Mount Sinai School of Medicine, New York, USA
- Archimedes / DoRa travel awards for attending conferences in 2007, 2008, 2010

## PUBLICATIONS

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- Perundurai S. Dhandapany, Frank Fabris, Rahul Tonk, Ardo Illaste, Ioannis Karakikes, Mehran Sorourian, Jipo Sheng, Roger J. Hajjar, Marco Tartaglia, Eric A. Sobie, Djamel Lebeche, Bruce D. Gelb, **Cyclosporine attenuates cardiomyocyte hypertrophy induced by RAF1 mutants in Noonan and LEOPARD syndromes**, *Journal of Molecular and Cellular Cardiology*, Volume 51, Issue 1, July 2011, Pages 4-15, ISSN 0022-2828

- Ardo Illaste, Mari Kalda, David W. Schryer, and Mervi Sepp, **Life of mice – development of cardiac energetics**, The Journal of Physiology, December 1, 2010 588 (23) 4617-461

#### TEACHING

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- Introduction to Scientific Programming for high school students, 2008
- Seminars for beginning PhD students on basics of biochemistry, bioenergetics and biophysics, 2008-2010

#### EMPLOYMENT

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- Introduction to Scientific Programming for high school students, 2008
- Engineer/Researcher, Institute of Cybernetics, TUT, 2006 - ...
- Research Scholar, Mount Sinai School of Medicine, 01.2009-08.2009
- Programmer, Smilehouse Baltic, 2005 – 2006
- Pioneer, Estonian Armed Forces (compulsory military service), 2003-2004

#### LANGUAGES

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Estonian (mother language), English (fluent), French, Finnish, Russian (all basic)

#### COMPUTER SKILLS

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- Day-to-day usage of C++, Python and Java programming languages for writing data analysis programs
- Competent in vector and raster image creation/manipulation programs
- Good knowledge of web frameworks: HTML, CSS, Django
- Excellent knowledge of UNIX/Linux. Capable in Windows, OSX
- Routine use of LaTeX document preparation system
- Experience with computer algebra systems: Matlab, Maple, Mathematica

#### INTERESTS

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Hiking, Tourism, Photography, Bicycling