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EDUCATION

- 2004-2007** Ph.D. in Biomedical Engineering, Technion-Israel Institute of Technology, Israel.
Dissertation title: "Identification of the mechano-electrical feedback in the heart"
Advisor: Assoc. Prof. Amir Landesberg
- 2002-2003** M.Sc. in Electrical Engineering, Technion-Israel Institute of Technology, Israel.
Thesis title: "Identification of the sarcomere contraction control mechanisms"
Advisors: Prof. Raphael Sivan and Assoc. Prof. Amir Landesberg.
- 1997-2002** B.Sc. in Electrical Engineering, Technion-Israel Institute of Technology, Israel.
- 1997-2002** B.Sc. in Mechanical Engineering, Technion-Israel Institute of Technology, Israel.

ACADEMIC APPOINTMENTS

- 3/2014-** Assistant Professor in Biomedical Engineering, Technion-Israel Institute of Technology, Israel.
- 8/2014, 3,8/2015** Research Guest, National Institute on Aging, National Institute of Health.
- 10/2012-2/2014** Research Fellow in National Institute on Aging, National Institute of Health.
- 10/2007-9/2012** Visiting Fellow in National Institute on Aging, National Institute of Health
Advisors: Edward G. Lakatta, M.D.
- 7/2006-11/2006** Research Scholar in Biomedical Engineering, Case Western Reserve University
Advisors: Prof. William Stanley and Prof. Gerald Saidel.

TEACHING EXPERIENCE

- 2015-** Lecturer, Graduate level, Control of Cellular Bioenergetics, Technion- Israel Institute of Technology, Israel.
- 2015-** Lecturer, Undergraduate level, Biophysics and Neurophysiology, Technion- Israel Institute of Technology, Israel.

- 2014-** Lecturer, Graduate level, Electrophysiological Phenomenon, Technion- Israel Institute of Technology, Israel.
- 2014** Lecturer, Graduate level, Advanced topics in Biomedical Engineering, Technion- Israel Institute of Technology, Israel.
- 2001-2007** Guest lecturer and teaching assistant at the Biomedical Engineering Faculty, Technion- Israel Institute of Technology. Each year taught following courses:
- Muscle Excitation Contraction Coupling, graduate level.
 - Engineering Aspects in the Cardiovascular System, graduate level.
 - Introduction to Control of Bio-medical Systems, undergraduate level.
 - Introduction to the Cardiovascular System, undergraduate level

CURRENT STUDENTS AND TRAINEES

Postdocs

1. Joachim Behar Ph.D., Oxford University, England 2015-
Aly-Kaufman Postdoctoral Fellow, 2015
First prize of Rena Yarom Young Investigator Competition, ISHR, Haifa, Israel

M.Sc. (with thesis) students

1. Aviv Rozenberg B.Sc. in Electrical Engineering, Technion-IIT 2015-
2. Sofia Segal B.Sc. in Biomedical Engineering, Technion-IIT 2015-
3. Vadim Galiner B.Sc. in Electrical Engineering and Physics, Technion-IIT 2015-
4. David Kamon B.Sc. in Aerospace Engineering, Technion-IIT 2014-

HONORS

- Woman Excellence in Scientific Research Award, 2013.
- Nathan W. Shock Post-Doctoral Poster Presentation award, 2012.
- NIH Postdoctoral Mentor Award, 2012.
- International Society of Heart Research, American Section, poster award, 2011.
- Gordon Research Conference: Cardiac Arrhythmia Mechanisms poster award, 2011.
- Gordon Research Conference: Cardiac Regulatory Mechanisms poster award, 2010.
- Excellent Women Researcher in Engineering and Science award, Technion- Israel Institute of Technology, 2007.
- Excellence in Teaching Award, Technion- Israel Institute of Technology, 2007.
- Katzir travel fellowship, Weismann Institute, Israel, 2006.

- Particular Gutwirth award, Technion- Israel Institute of Technology, 2006.
- Biophysical Society Student Travel award, 2005.
- Vivian Konigsberg Award for Excellence in Teaching, Technion- Israel Institute of Technology, 2005.
- Particular Gutwirth award, Technion- Israel Institute of Technology, 2005.
- International Congress of Physiological Sciences Travel award, 2005.
- Sandor Szego award for excellence in teaching, Technion- Israel Institute of Technology, 2004.
- Diploma with honors (summa cum laude), Electrical Engineering, Technion- Israel Institute of Technology, 2004.
- First Award for best student presentation at the meeting of the "Israeli Society for Medical and Biological Engineering", Israel, 2004.
- First Award, for best graduate student presentation, at the International Society of Physiology and Pharmacology meeting, Israel, 2003.
- Diploma with honors (cum laude), Electrical Engineering, Technion- Israel Institute of Technology, 2002.
- Diploma with honors (cum laude), Mechanical Engineering, Technion- Israel Institute of Technology, 2002.

PROFFESIONAL SERVICE/ LEADERSHIP

- 2015-** Member of the board of International Society of Heart Research-Israeli Section
- 2015-** Editorial Board, Frontiers in Computational Physiology and Medicine
- 2014-** Editorial Board, International Archives of Translational Medicine
- 2014-** Secretary-General, Council of Biomedical Engineering, Technion-IIT, Israel.
- 2014-** Undergraduate Studies Committee, Member, Department of Biomedical Engineering, Technion-IIT, Israel.
- 2014-** Biomedical Engineering Faculty Representative, Council Mechanical Engineering, Technion-IIT, Israel.
- 2014-** Technion-IIT Animal House Committee, Member.
- 2014** Excellence Program Committee, Member Department of Biomedical Engineering, Technion-IIT, Israel.
- 2013-** Editorial Board, Cardiovascular Pharmacology: Open access
- 2013** Judge in summer-student poster day-NIA.

- 2011, 2013** Judge in post-baccalaureate poster day-NIA.
- 2008-2012** Assisting in “bring your kids to work” day-NIA.
- 2003-2006** Conference coordinator, Annual Larry & Horti Fairberg Cardiac Workshop.
- Helped to organize and plan the program books.
 - Established the conference website.
 - Organized the tours and dinners to the participates and spouses.
 - Reviewed the manuscripts submitted to the conference preceding.
- 2002-2005** Officer, Rafael, Israeli Defense Forces.

FUNDING

- Israel Science Foundation (ISF)-National Natural Science Foundation of China (NSFC), Joint Research Program, No. 398/14
Yaniv (PI) 10/2014-10/2017
Role: co-PI, together with Shi-Qiang Wang
Amount: \$300,000 for each PI+\$100,000 equipment
- Individual Research Grant
Yaniv (PI) 10/2014-10/2018
Israel Science Foundation (ISF), No. 882/14
Role: PI
Amount: \$395,000
- New-Faculty Equipment Grant, ISF No. 1911/14
Yaniv (PI) 10/2014-10/2016
Amount: \$220,000
- Technion E.V.P.R Fund – Elias Fund for Medical Research
Yaniv (PI) 6/2015-12/2017
Role: co-PI, together with Ofer Binah
Amount: \$16,000
- University of Michigan-Israel Partnership for Research
Yaniv (PI) 12/2014-12/2016
Role: co-PI, together with José Jalife
Amount: \$25,000 for each PI
- Technion V.P.R Fund - Mallat Family Research Fund
Yaniv (PI) 3/2014-3/2015
Role: PI
Amount: \$6,000
- Technion V.P.R Fund –Krbliing Research Fund
Yaniv (PI) 3/2014-3/2015
Role: PI
Amount: \$17,000

ORIGINAL SCIENTIFIC PUBLICATIONS

1. **Yaniv Y**, Ganesan A, Yang D, Lyashkov AE, Ziman B, Levchenko A, Zhang J and Edward Lakatta. Real-time relationship between PKA biochemical signal network dynamics and increased action potential firing rate in heart pacemaker cells. *JMCC*, 86:168-178, 2015.
2. **Yaniv Y** and Lakatta EG. The end effector of circadian heart rate variation: the sinoatrial node pacemaker cell. *BMB Rep*, 48(12):677-684, 2015.
3. **Yaniv Y**, Tsutsui K and Lakatta EG. Potential effects of intrinsic heart pacemaker cell mechanisms on dysrhythmic cardiac action potential firing. *Front Physiol* 6:47, 2015.
4. **Yaniv Y**, Lakatta EG and Maltsev VA. From two competing oscillators to one coupled-clock pacemaker cell system. *Front Physiol* 6:28, 2015.
5. **Yaniv Y**, Lyashkov AE, Sirenko S, Okamoto Y, Guiriba TR, Ziman BD, Morrell CH, and Lakatta EG. Stochasticity intrinsic to coupled-clock mechanisms underlies beat-to-beat variability of spontaneous action potential firing in sinoatrial node pacemaker cells. *JMCC* 77: 1-10, 2014.
6. **Yaniv Y**, Ahmet I, Liu J, Lyashkov AE, Guiriba TR, Okamoto Y, Ziman BD and Lakatta EG. Synchronization of sinoatrial node pacemaker cell clocks and its autonomic modulation impart complexity to heart beating intervals. *Heart Rhythm* 11(7):1210-9, 2014.
7. **Yaniv Y** and Maltsev VA. Numerical Modeling Calcium and CaMKII Effects in the SA Node. *Frontiers in Pharmacology of Ion Channels and Channelopathies* 5:58, 2014.
8. Liu J, Sirenko S, Juhaszova M, Sollott SJ, Shukla S, **Yaniv Y**, and Lakatta EG. Age-associated abnormalities of intrinsic automaticity of sinoatrial nodal cells are linked to deficient cAMP-PKA-Ca²⁺ signaling. *Am. J. Physiol.* 306(10):H1385-9, 2014.
9. Maltsev VA, **Yaniv Y**, Maltsev AV, Stern MS and Lakatta EG. Modern perspectives on numerical modeling of cardiac pacemaker cell. *Journal of Pharmacological Sciences*, 125(1):6-38, 2014.
10. **Yaniv Y**, Lyashkov AE and Lakatta EG. Impaired signaling intrinsic to sinoatrial node pacemaker cells affects heart rate variability during cardiac disease. *J Clin Trials* 4 (152), 2167-0870.1000152, 2013.
11. **Yaniv Y**, Stern M, Lakatta EG and Maltsev VA. Mechanisms of beat-to-beat regulation of cardiac pacemaker cell function by Ca²⁺ cycling dynamics. *Biophysics Journal*, 105(7):1551-1561, 2013.
12. Maltsev A, **Yaniv Y**, Stern M, Lakatta EG and Maltsev VA. RyR-NCX-SERCA local crosstalk ensures pacemaker cell function at rest and during the fight-or-flight reflex. *Circulation Research*, 113(10):e94-e100, 2013.

13. **Yaniv Y**, Lyashkov AE and Lakatta EG. The fractal-like complexity of heart rate variability beyond neurotransmitters and autonomic receptors: signaling intrinsic to sinoatrial node pacemaker cells. *Cardiovascular Pharmacology: Open access*, 2:111, 2013.
14. **Yaniv Y**, Juhaszova M and Sollott SJ. Age-related changes of myocardial ATP supply and demand mechanisms. *TEM*, S1043-2760(13)00092-1, 2013.
15. **Yaniv Y**, Syevda Sirenko, Ziman BD, Spurgeon HA, Maltsev VA and Lakatta EG. New evidence for coupled clock regulation of the normal automaticity of sinoatrial nodal pacemaker cells: Bradycardic effects of ivabradine are linked to suppression of intracellular Ca^{2+} cycling. *JMCC*, 62C:80-89, 2013.
16. **Yaniv Y**, Spurgeon HA, Ziman BD, Lyashkov AE, and Lakatta EG. Mechanisms that match ATP supply to demand in cardiac pacemaker cells during high ATP demand. *Am. J. Physiol.* 304(11): H1428-1438. 2013.
17. **Yaniv Y**, Spurgeon HA, Ziman BD and Lakatta EG. Ca^{2+} /calmodulin-dependent protein kinase II (CaMKII) and sinoatrial nodal pacemaker cell energetics. *PLoS One*, 8(2): e57079, 2013.
18. **Yaniv Y**, Maltsev V, and Lakatta EG. The "Funny" current (I_f) inhibition by ivabradine at membrane potentials encompassing spontaneous depolarization in pacemaker cells. *Molecules*, 17(7):8241-54, 2012.
19. **Yaniv Y**, Spurgeon HA, Lyashkov AE, Yang D, Ziman BD, Maltsev V, and Lakatta EG. Crosstalk between mitochondrial and sarcoplasmic reticulum Ca^{2+} cycling modulates cardiac pacemaker cell automaticity. *PLoS One*, 7(5):e37582, 2012.
20. Abdelmoshsen K, Srikantan S, Tominaga K, Kang MJ **Yaniv Y**, Martindale JL, Yang X, Park SS, Becker KG, Subramanian M, Maudsley S, Lal A and Gorospe M. Growth inhibition by miR-519 via multiple p21-inducing pathways *MCB*, 32(13):2530-48, 2012.
21. **Yaniv Y**, Maltsev VA, Escobar AL, Spurgeon HA, Ziman BD, Stern MD and Lakatta EG. Beat-to-beat Ca^{2+} -dependent regulation of sinoatrial nodal pacemaker cell rate and rhythm. *JMCC*, 51(6):902-905, 2011.
22. **Yaniv Y**, Juhaszova M, Lyashkov AE, Spurgeon HA, Sollott SJ and Lakatta EG. Ca^{2+} -regulated-cAMP/PKA signaling in cardiac pacemaker cells links ATP supply to demand. *JMCC*, 51(5):740-748, 2011.
23. **Yaniv Y**, Juhaszova M, Wang S, Fishbein KW, Zorov BD, and Sollott SJ. Analysis of mitochondrial 3D-deformation in cardiomyocytes during active contraction reveals passive structural anisotropy of orthogonal short axes, *PLoS One*, 6(7):e21985, 2011.

24. Juhaszova M, Zorov BD, **Yaniv Y**, HB, Wang S and Sollott SJ. Role of glycogen synthase kinase-3 β in cardioprotection, *Circ. Res.* 104: 1240-1252, 2009.
25. Zorov BD, Juhaszova M, **Yaniv Y**, Nuss HB, Wang S and Sollott SJ. Regulation and pharmacology of the mitochondrial permeability transition pore, *Cardiovasc Res.* 83: 213-225, 2009.
26. **Yaniv Y**, Sivan S and Landesberg A. Stability controllability and observability of the four state model for the sarcomere control of contraction, *Annals Biomed. Eng.* 34: 778-789, 2006.
27. **Yaniv Y**, Sivan S and Landesberg A. Identification of the sarcomere control of cardiac contraction by analyzing the hystereses in the force length and force calcium relations, *Am. J. Physiol.* 288: 389-399, 2005.

PEER REVIEW CONFERENCE PUBLICATIONS

1. **Yaniv Y**, Juhaszova M, Nuss HB, Wang S, Zorov BD, Lakatta EG and Sollott SJ. Matching ATP supply and demand in mammalian heart: *In vivo*, *in vitro* and in silico perspectives, *Ann. N.Y. Acad. Sci.* 1188: 133-142, 2010.
2. **Yaniv Y**, Stanley WC, Saidel GM, Cabrera ME and Landesberg A. The role of Ca²⁺ in coupling cardiac metabolism with regulation of contraction: In silico modeling, *Ann. N.Y. Acad. Sci.* 1123: 69-78, 2008.
3. **Yaniv Y**, Levi C and Landesberg A. The mechanoelectric feedback. A novel calcium clamp method, utilizing titanic contraction, for testing the role of the intracellular free calcium, *Ann. N.Y. Acad. Sci.* 1080: 235-247, 2006.
4. Levy C, ter Keurs HEDJ, **Yaniv Y** and Landesberg A. The sarcomeric control of energy conversion, *Ann. N.Y. Acad. Sci.* 1047: 219-231, 2005.
5. Landesberg A, Levy C, **Yaniv Y** and Sideman S. The adaptive intracellular control of cardiac muscle function, *Ann. N.Y. Acad. Sci.* 1015: 71-83, 2004.
6. **Yaniv Y**, Sivan S and Landesberg A. Identification of the intercellular control of the cardiac force-length relationship: Analysis of the hysteresis in the force-length plane, *ICCA conference 10-12 June WA01-WA06*, 2003.

BOOK CHAPTERS

1. Lakatta EG, **Yaniv Y** and Maltev V. Cardiac impulse is initiated by a coupled system of membrane ion channels and Ca²⁺ cycling proteins. *Cardiac Electrophysiology from Cell to Bedside*, 6th Edition, 2013.

EDITORIAL AND LETTER TO THE EDITORS

1. **Yaniv Y.** Cardiac troponin I phosphorylation and force-length relationship. *J Physiol*, 591 (24), 6135-6136, 2013.
2. **Yaniv Y** and Lakatta EG. Pacemaker gene mutations, bradycardia, arrhythmias and the coupled clock theory. *J Cardio Electro*, 24(12):E28-E29, 2013.
3. Lakatta EG, **Yaniv Y** and Maltsev V. Minding the gaps that link intrinsic circadian clock within the heart to its intrinsic ultradian pacemaker clocks. *American Journal of Physiology, Cell physiology*. 304(10): C941-944, 2013.

PRESENTATIONS AT SCIENTIFIC MEETINGS

1. **Yaniv Y**, Ahmet I, Tsutsui K, Okamoto Y, Guiriba TR, Bychkov R, and Lakatta EG. Alterations in mechanisms intrinsic to pacemaker cells contribute to age-associated changes in heart rate variability. *International Society of Heart Research-European Section Bordeaux-France*, July 2015.
2. **Yaniv Y**, Ganesan A, Yang D, Ziman B, Zhang J and Edward Lakatta. Parallel increase in PKA activation kinetics and spontaneous beating rate in sinoatrial node cell in response to chronotropic stimuli. *Heart Rhythm San Francisco-U.S.A*, May, 2014.
3. **Yaniv Y**, Ganesan A, Yang D, Ziman B, Zhang J and Edward Lakatta. The chicken or the egg: In response to a reduction in cAMP/PKA signaling in heart pacemaker cells, what becomes reduced first, the ATP level or the spontaneous action potential firing rate? *Heart Rhythm San Francisco-U.S.A*, May, 2014.
4. **Yaniv Y**, Lyashkov AE, Sirenko S, Okamoto Y, Guiriba TR and Lakatta EG. Fractal-like behavior of the heart-beat intervals is encoded within intrinsic complexity of pacemaker cells residing in the sinoatrial node and modulated by autonomic input to the heart. *Biophysical Society San Francisco-U.S.A*, February, 2014.
5. **Yaniv Y**, Lyashkov AE, Sirenko S, Okamoto Y, Guiriba TR, Lakatta EG. The coupled-pacemaker clock system of sinoatrial nodal cells regulates both the action potential rate and rhythm. *Biophysical Society San Francisco-U.S.A*, February, 2014.
6. **Yaniv Y**, Ahmet I, Liu J, Guiriba TR, and Lakatta EG. Age-associated changes of heart rate and heart rate variability extend well beyond age-dependent changes in autonomic nerve input to the sinoatrial node. *International Society of Heart Research San Diego-U.S.A*, July 2013.

7. **Yaniv Y**, Ambhi G, Yang D, Ziman BD, Zhang J and Lakatta EG. Experimental and in silico studies of the kinetics and magnitude of PKA activation in live sinoatrial node pacemaker cell. *International Society of Heart Research* San Diego-U.S.A, July 2013.
8. **Yaniv Y**, Maltsev V, and Lakatta EG. cAMP/PKA-dependent phosphorylation signaling controls both pacemaker cell rate and energetics: experimental evidence and *in silico* testing. *Heart Rhythm Society* Denver-U.S.A, May 2013.
9. **Yaniv Y**, Spurgeon HA, Ziman BD and Lakatta EG. Ca²⁺/calmodulin-dependent protein kinase II (CaMKII) activity modulates sinoatrial nodal pacemaker cell energetic. *Mitochondria Research Retreat* Baltimore-U.S.A, October, 2012.
10. **Yaniv Y**, Maltsev V, and Lakatta EG. How Ca²⁺-activated, cAMP/PKA-dependent phosphorylation signaling mediates pacemaker cell activity: experimental and *in silico* biochemical and biophysics perspectives. *Biophysical Society* San Diego-U.S.A, February, 2012.
11. **Yaniv Y**, Spurgeon HA, Ziman BD and Lakatta EG. Ca²⁺/calmodulin-dependent protein kinase II (CaMKII) activity modulates sinoatrial nodal pacemaker cell energetic. *Biophysical Society* San Diego-U.S.A, February, 2012.
12. **Yaniv Y**, Maltsev V, Escobar A, Spurgeon HA, Ziman BD, Stern M and Lakatta EG. Photolytic Ca²⁺ release from caged Ca²⁺ buffer acutely modulates action potential cycle length of sinoatrial nodal cells. *International Society for Heart Research American Section* Philadelphia-U.S.A, May, 2011.
13. **Yaniv Y**, Spurgeon HA, Lyashkov AE, Dongmei Y, Ziman BD and Lakatta EG. Mitochondrial-SR Ca²⁺ cycling, a third clock within pacemaker cells, modulates basal automaticity of rabbit cardiac sinoatrial nodal pacemaker cells. *International Society for Heart Research American Section* Philadelphia-U.S.A, May, 2011.
14. **Yaniv Y**, Spurgeon HA, Lyashkov AE, Dongmei Y, Ziman BD and Lakatta EG. Mitochondrial-SR Ca²⁺ cycling, a third clock within pacemaker cells, modulates basal automaticity of rabbit cardiac sinoatrial nodal pacemaker cells. *NHLBI Mitochondrial Biology Symposium* Bethesda-U.S.A, May, 2011.
15. **Yaniv Y**, Spurgeon HA, Lyashkov AE, Ziman BD, Lakatta EG. Mitochondrial-SR Ca²⁺ cycling modulates normal automaticity of rabbit cardiac sinoatrial nodal pacemaker cells. *Biophysical Society* Baltimore-U.S.A, March, 2011.
16. **Yaniv Y**, Juhaszova M, Lyashkov AE, Spurgeon HA, Sollott S and Lakatta EG. Ca²⁺-regulated-cAMP/PKA signaling in cardiac pacemaker cells links ATP supply to demand. *Biophysical Society* Baltimore-U.S.A, March, 2011.

17. **Yaniv Y**, Juhaszova M, Wang S, Fishbein KW, Nuss HB, Sollott SJ. Between a rock and a hard place: mitochondria deform anisotropically in intact cardiomyocytes during active contraction. *Biophysical Society* Baltimore-U.S.A, March, 2011.
18. **Yaniv Y**, Juhaszova M, Lyashkov AE, Spurgeon HA, Sollott S and Lakatta EG. Cardiac pacemaker cells uniquely match ATP supply to demand. *Biophysical Society* San Francisco-U.S.A, February, 2010.
19. Syevda S, Yaeger D, Vinogradova TM, Li Y, **Yaniv Y**, Zahanich I, Spurgeon HA, Maltsev V and Lakatta EG. Cardiac glycoside chronotropic and arrhythmogenic effects in sinoatrial nodal pacemaker cells occur along a continuum of electrochemical gradients of Na^+ (E_{Na}) and Ca^{2+} (E_{Ca}). *Biophysical Society* San Francisco-U.S.A, February, 2010.
20. **Yaniv Y**, Juhaszova M, Lyashkov AE, Zahanich I, Sollott S and Lakatta EG. Matching ATP supply and demand: pulling the energy plug in cardiac pacemaker cells. *ISHR* Baltimore-U.S.A, May 2009.
21. **Yaniv Y**, Juhaszova M, Wang S and Sollott S. Analysis of the role of Ca^{2+} in the regulation of mitochondrial volume in the intact cardiomyocytes. *ISHR* Baltimore- U.S.A, May 2009.
22. **Yaniv Y**, Landesberg A, Sharma N, Huang H, Allen C, Cabrera ME, Saidel G, Stanley WC. An increase in matrix Ca^{2+} activates mitochondrial ATP production and maintains mechanical efficiency at high workloads: *In Vivo* and *In Silico* evidence. *Biophysical Society* Baltimore-U.S.A, March, 2007.
23. **Yaniv Y**, Landesberg A, The mechanoelectric feedback phenomenon is stress dependent in the isolated rat trabeculae and the rabbit papillary muscle. *Biophysical Society* Baltimore-U.S.A, March, 2007.
24. **Yaniv Y**, Landesberg A, Implication of cardiac arrhythmogenicity by stretch activated channels and calcium. International Meeting of Muscle Energetics Banff, Canada, July 22-26, 2006.
25. **Yaniv Y**, Landesberg A, The mechanoelectric feedback: The roles of stretch activated channels and troponin, implications to cardiac arrhythmogenicity. 4th Larry and Horti Fairberg Cardiac Workshop Charleston SC, USA, April 23-27, 2006.
26. **Yaniv Y**, Landesberg A, The mechanoelectric feedback: The roles of stretch activated channels and troponin, implications to cardiac arrhythmogenicity. *International Society for Heart Research Israeli Subsection* Tel Aviv-Israel, February 27, 2006.
27. **Yaniv Y**, Landesberg A, The mechanoelectric feedback: The roles of stretch activated channels and troponin. *Biophysical Society* Salt Lake City-U.S.A, February, 2006.

28. **Yaniv Y**, Landesberg A, A novel integrated model of cardiac myocyte electrical and mechanical activities. *International Society for Heart Research Israeli Subsection* Haifa-Israel, February 24, 2005.
29. **Yaniv Y**, Landesberg A, A novel integrated model of cardiac myocyte electrical and mechanical activities. *Biophysical Society* Long Beach-U.S.A, February, 2005.
30. **Yaniv Y**, Landesberg A, Sivan S, The adaptive control of cardiac contraction by the loading conditions, with high constant efficiency, in the rat heart. *Biophysical Society* Baltimore-U.S.A, March 17, 2004.
31. **Yaniv Y**, Landesberg A, Sivan S, The adaptive control of cardiac contraction by the loading conditions, with high constant efficiency, in the rat heart. *International Society for Heart Research Israeli Subsection* Tel Aviv-Israel, February 26, 2004.
32. **Yaniv Y**, Landesberg A, Sivan S, T The adaptive control of cardiac contraction by the loading conditions, with high constant efficiency, in the rat heart. *Israel Society for Physiology and Pharmacology Annual Meeting* Mala Hamisha-Israel, October 2, 2003.
33. **Yaniv Y**, Landesberg A, Sivan S, Regulation of the force length relationship in the cardiac muscle. *The 29th Conference on Mechanical Engineering* Haifa-Israel, May 12-13, 2003. **Yaniv Y**, Landesberg A, Sivan S, Identification of the sarcomere control of cross-bridge recruitment. *Israel Society for Medical and Biological Engineering* Tel Aviv-Israel, January 23, 2003.
35. **Yaniv Y**, Landesberg A, Sivan S, Identification of the cellular control of cross bridge recruitment in the cardiac muscle. *Israel Society for Physiology and Pharmacology Annual Meeting* Mala Hamish-Israel, October 9, 2002.
36. **Yaniv Y**, Landesberg A, Sivan S, Identification of the control of cross bridge recruitment. *Banff Symposium on Skeletal Muscle* Banff-Canada August 2-3, 2002.

INVITED TALKS

- Georgetown University, Washington DC, 2015.
- International Society of Heart Research, Israel, 2015.
- Israel Society of Physiology and pharmacology, Israel, 2015.
- Tel Aviv University, Israel, 2015.
- International Society of Heart Research, Israel, 2014.
- Biomedical Engineering, Technion, Israel, 2013.
- Heart Rhythm, Denver, USA, 2013.

- Biomedical Engineering, Technion, Israel, 2009.
- The 6th Larry & Horti Fairberg Workshop, Haifa, Israel, 2009.
- Biomedical Engineering, Technion, Israel, 2008.
- Laboratory of Cardiovascular Science, NIA, NIH, Baltimore, MD, 2006.
- Department of Physiology, Loyola University, Chicago, IL, 2006.
- Biomedical Engineering, Washington University, St. Louis, MO, 2006.
- The 4th Larry & Horti Fairberg Workshop, Charleston SC, 2006.

PROFESSIONAL AFFILIATIONS

- Member, Biophysical Society
- Member, International Society of Heart Research (ISHR)
- Member, The Physiological Society

REFEREE

- American Journal of Physiology, heart and circulation section
- Biophysical Journal
- Cellular Physiology and Biochemistry
- Journal of Cardiovascular Pharmacology and Therapeutics
- Journal of General Physiology
- Journal of Molecular and Cellular Cardiology
- Journal of Physiology and Pharmacology
- PLoS ONE
- Springer Open