

# Rosana Almada Bassani

## List of Publications by Year in descending order

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73  
papers

2,489  
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304743  
22  
h-index

197818  
49  
g-index

76  
all docs

76  
docs citations

76  
times ranked

2255  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Relaxation in rabbit and rat cardiac cells: species-dependent differences in cellular mechanisms.. Journal of Physiology, 1994, 476, 279-293.   | 2.9  | 578       |
| 2  | Mitochondrial and sarcolemmal Ca <sup>2+</sup> transport reduce [Ca <sup>2+</sup> ] <sub>i</sub> during caffeine contractures in rabbit cardiac myocytes.. Journal of Physiology, 1992, 453, 591-608.   | 2.9  | 209       |
| 3  | Macrophage-dependent IL-1 $\beta$ production induces cardiac arrhythmias in diabetic mice. Nature Communications, 2016, 7, 13344.   | 12.8 | 203       |
| 4  | Calibration of indo-1 and resting intracellular [Ca] <sub>i</sub> in intact rabbit cardiac myocytes. Biophysical Journal, 1995, 68, 1453-1460.  | 0.5  | 173       |
| 5  | Na-Ca Exchange and Ca Fluxes during Contraction and Relaxation in Mammalian Ventricular Muscles. Annals of the New York Academy of Sciences, 1996, 779, 430-442.  | 3.8  | 109       |
| 6  | Paradoxical Twitch Potentiation After Rest in Cardiac Muscle: Increased Fractional Release of SR Calcium. Journal of Molecular and Cellular Cardiology, 1993, 25, 1047-1057.  | 1.9  | 81        |
| 7  | Rate of diastolic Ca release from the sarcoplasmic reticulum of intact rabbit and rat ventricular myocytes. Biophysical Journal, 1995, 68, 2015-2022.   | 0.5  | 78        |
| 8  | Chasing cardiac physiology and pathology down the CaMKII cascade. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 308, H1177-H1191.  | 3.2  | 78        |
| 9  | Competition and redistribution among calcium transport systems in rabbit cardiac myocytes. Cardiovascular Research, 1993, 27, 1772-1777.  | 3.8  | 72        |
| 10 | Na-Ca Exchange is Required for Rest-decay but not for Rest-potential of Twitches in Rabbit and Rat Ventricular Myocytes. Journal of Molecular and Cellular Cardiology, 1994, 26, 1335-1347.   | 1.9  | 72        |
| 11 | Ca <sup>2+</sup> cycling between sarcoplasmic reticulum and mitochondria in rabbit cardiac myocytes.. Journal of Physiology, 1993, 460, 603-621.  | 2.9  | 67        |
| 12 | Relaxation in ferret ventricular myocytes: role of the sarcolemmal Ca ATPase. Pflügers Archiv European Journal of Physiology, 1995, 430, 573-578.   | 2.8  | 65        |
| 13 | Relaxation in ferret ventricular myocytes: unusual interplay among calcium transport systems.. Journal of Physiology, 1994, 476, 295-308.   | 2.9  | 62        |
| 14 | Ca flux, contractility, and excitation-contraction coupling in hypertrophic rat ventricular myocytes. American Journal of Physiology - Heart and Circulatory Physiology, 1998, 274, H1348-H1360.  | 3.2  | 47        |
| 15 | Action potential duration determines sarcoplasmic reticulum Ca <sup>2+</sup> -reloading in mammalian ventricular myocytes. Journal of Physiology, 2004, 559, 593-609.   | 2.9  | 45        |
| 16 | Toll-like receptor 4 activation promotes cardiac arrhythmias by decreasing the transient outward potassium current (I <sub>to</sub> ) through an IRF3-dependent and MyD88-independent pathway. Journal of Molecular and Cellular Cardiology, 2014, 76, 116-125. | 1.9  | 42        |
| 17 | Lethal Effect of Electric Fields on Isolated Ventricular Myocytes. IEEE Transactions on Biomedical Engineering, 2008, 55, 2635-2642.  | 4.2  | 38        |
| 18 | Passive Ca <sup>2+</sup> binding in ventricular myocardium of neonatal and adult rats. Cell Calcium, 1998, 23, 433-442.   | 2.4  | 31        |

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|----|---|-----|-----------|
| 19 | Transient outward potassium current and Ca <sup>2+</sup> homeostasis in the heart: beyond the action potential. Brazilian Journal of Medical and Biological Research, 2006, 39, 393-403.                        | 1.5 | 26        |
| 20 | Enhanced calcium mobilization in rat ventricular myocytes during the onset of pressure overload-induced hypertrophy. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H1803-H1813. | 3.2 | 26        |
| 21 | Subsensitivity to $\beta^2$ -adrenoceptor agonists in right atria isolated from footshock-stressed rats. General Pharmacology, 1987, 18, 473-477.   | 0.7 | 24        |
| 22 | Supersensitivity to isoprenaline and epinephrine in right atria isolated from rats submitted to a single swimming session. General Pharmacology, 1988, 19, 129-135.   | 0.7 | 24        |
| 23 | Contribution of Ca <sup>2+</sup> transporters to relaxation in intact ventricular myocytes from developing rats. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 282, H2406-H2413.     | 3.2 | 23        |
| 24 | Increased spontaneous activity and reduced inotropic response to catecholamines in ventricular myocytes from footshock-stressed rats. Stress, 2010, 13, 73-82.  | 1.8 | 20        |
| 25 | Changes in Calcium Uptake Rate by Rat Cardiac Mitochondria during Postnatal Development. Journal of Molecular and Cellular Cardiology, 1998, 30, 2013-2023.   | 1.9 | 19        |
| 26 | Electric field stimulation of cardiac myocytes during postnatal development. IEEE Transactions on Biomedical Engineering, 2001, 48, 630-636.  | 4.2 | 18        |
| 27 | Application based on the Canny edge detection algorithm for recording contractions of isolated cardiac myocytes. Computers in Biology and Medicine, 2017, 81, 106-110.  | 7.0 | 18        |
| 28 | High Thyrotropin Is Critical for Cardiac Electrical Remodeling and Arrhythmia Vulnerability in Hypothyroidism. Thyroid, 2019, 29, 934-945.  | 4.5 | 17        |
| 29 | Rest-dependence of Twitch Amplitude and Sarcoplasmic Reticulum Calcium Content in the Developing Rat Myocardium. Journal of Molecular and Cellular Cardiology, 2001, 33, 711-722.                               | 1.9 | 16        |
| 30 | Medical equipment classification: method and decision-making support based on paraconsistent annotated logic. Medical and Biological Engineering and Computing, 2012, 50, 395-402.                              | 2.8 | 16        |
| 31 | Measuring [Ca <sup>2+</sup> ] with fluorescent indicators: theoretical approach to the ratio method. Cell Calcium, 1998, 24, 17-26.   | 2.4 | 13        |
| 32 | Transthoracic cardiac ultrasonic stimulation induces a negative chronotropic effect. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 2655-61.                                | 3.0 | 13        |
| 33 | Greater Cardiac Cell Excitation Efficiency With Rapidly Switching Multidirectional Electrical Stimulation. IEEE Transactions on Biomedical Engineering, 2013, 60, 28-34.  | 4.2 | 13        |
| 34 | Combining stimulus direction and waveform for optimization of threshold stimulation of isolated ventricular myocytes. Physiological Measurement, 2006, 27, 851-863.   | 2.1 | 12        |
| 35 | Pacemaker activity in the insect (T. molitor) heart: role of the sarcoplasmic reticulum. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 301, R1838-R1845.            | 1.8 | 11        |
| 36 | Cholinergic?adrenergic antagonism in the induction of tachyarrhythmia by electrical stimulation in isolated rat atria*1. Journal of Molecular and Cellular Cardiology, 2004, 37, 127-135.                       | 1.9 | 9         |

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|----|--|-----|-----------|
| 37 | Role of Acetylcholine in Electrical Stimulation-Induced Arrhythmia in Rat Isolated Atria. <i>Journal of Cardiovascular Pharmacology</i> , 1999, 34, 475-479.   | 1.9 | 9         |
| 38 | SERCA upregulation: Breaking the positive feedback in heart failure?. <i>Cardiovascular Research</i> , 2005, 67, 581-582.  | 3.8 | 8         |
| 39 | Functional antagonism of $\beta_2$ -adrenoceptor subtypes in the catecholamine-induced automatism in rat myocardium. <i>British Journal of Pharmacology</i> , 2011, 162, 1314-1325.  | 5.4 | 8         |
| 40 | Effects of escapable and inescapable foot-shock on rat atrial $\beta_2$ -adrenoceptors. <i>Pharmacology Biochemistry and Behavior</i> , 1993, 44, 869-875.   | 2.9 | 7         |
| 41 | Electrocardiogram, heart movement and heart rate in the awake gecko ( <i>Hemidactylus mabouia</i> ). <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2015, 185, 111-118.       | 1.5 | 7         |
| 42 | Estimation of the fractional sarcoplasmic reticulum $Ca^{2+}$ release in intact cardiomyocytes using integrated $Ca^{2+}$ fluxes. <i>General Physiology and Biophysics</i> , 2012, 31, 401-408.                                  | 0.9 | 6         |
| 43 | Rapidly switching multidirectional defibrillation: Reversal of ventricular fibrillation with lower energy shocks. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2014, 148, 3213-3218.                                  | 0.8 | 6         |
| 44 | Accuracy of electromagnetic models to estimate cardiomyocyte membrane polarization. <i>Medical and Biological Engineering and Computing</i> , 2019, 57, 2617-2627.   | 2.8 | 6         |
| 45 | Inotropic effect of hyperosmotic NaCl solutions on the isolated rat cardiac tissue. <i>Archives Internationales De Physiologie Et De Biochimie</i> , 1990, 98, 397-402.  | 0.2 | 5         |
| 46 | Effect of ryanodine on sinus node recovery time determined in vitro. <i>Brazilian Journal of Medical and Biological Research</i> , 1999, 32, 1039-1043.  | 1.5 | 5         |
| 47 | Osmolality- and $Na^{+}$ -dependent effects of hyperosmotic NaCl solution on contractile activity and $Ca^{2+}$ cycling in rat ventricular myocytes. <i>Pflügers Archiv European Journal of Physiology</i> , 2007, 455, 617-626. | 2.8 | 5         |
| 48 | Blood Calcium Levels in Immature Rats: Influence of Extracellular Calcium Concentration on Myocardial Calcium Handling. <i>Experimental Animals</i> , 2012, 61, 399-405.   | 1.1 | 5         |
| 49 | The influence of cell dimensions on the vulnerability of ventricular myocytes to lethal injury by high-intensity electrical fields. <i>Revista Brasileira De Engenharia Biomedica</i> , 2012, 28, 337-345.                       | 0.3 | 5         |
| 50 | Atrial chronotropic reactivity to catecholamines in neonatal rats: Contribution of $\beta_2$ -adrenoceptor subtypes. <i>European Journal of Pharmacology</i> , 2015, 764, 385-394.   | 3.5 | 4         |
| 51 | System for open-chest, multidirectional electrical defibrillation. <i>Research on Biomedical Engineering</i> , 2016, 32, 74-84.  | 2.2 | 4         |
| 52 | Testing electrode suitability for field stimulation of high-threshold biological preparations. <i>Research on Biomedical Engineering</i> , 2015, 31, 273-276.  | 2.2 | 4         |
| 53 | Methodology and instrumentation for the in vitro sinus node recovery time determination. <i>Journal of Pharmacological Methods</i> , 1990, 23, 117-127.  | 0.7 | 3         |
| 54 | Subsensitivity to beta-adrenergic stimulation in atria from rats infested with <i>Syphacia</i> sp.. <i>Laboratory Animals</i> , 2003, 37, 63-67.   | 1.0 | 3         |

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|----|---|-----|-----------|
| 55 | Inhibition of the sarcoplasmic reticulum Ca <sup>2+</sup> pump with thapsigargin to estimate the contribution of Na <sup>+</sup> -Ca <sup>2+</sup> exchange to ventricular myocyte relaxation. Brazilian Journal of Medical and Biological Research, 2003, 36, 1717-1723. | 1.5 | 3         |
| 56 | Reduced responsiveness to noradrenaline in isolated rat atria exposed to hyperosmotic solutions. General Pharmacology, 1991, 22, 151-157.   | 0.7 | 2         |
| 57 | Sarcoplasmic reticulum Ca <sup>2+</sup> release channel complex and automatism: A matter of fine tuning. Cardiovascular Research, 2007, 75, 7-9.  | 3.8 | 2         |
| 58 | Determination of the vectorelectrogram in isolated rat atria: application to the study of arrhythmias. Physiological Measurement, 2009, 30, 1281-1291.  | 2.1 | 2         |
| 59 | Muscarinic stimulation and pinacidil produce similar facilitation of tachyarrhythmia induction in rat isolated atria. Journal of Molecular and Cellular Cardiology, 2013, 65, 120-126.  | 1.9 | 2         |
| 60 | Medical equipment classification according to corrective maintenance data: a strategy based on the equipment age. Revista Brasileira De Engenharia Biomedica, 2014, 30, 64-69.  | 0.3 | 2         |
| 61 | Sources of Ca <sup>2+</sup> for contraction of the heart tube of Tenebrio molitor (Coleoptera: Tenebrionidae). Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2018, 188, 929-937.  | 1.5 | 2         |
| 62 | The ForceLAB simulator: Application to the comparison of current models of cardiomyocyte contraction. Computers in Biology and Medicine, 2021, 131, 104240.   | 7.0 | 1         |
| 63 | Developmental differences in myocardial transmembrane Na <sup>+</sup> transport: implications for excitability and Na <sup>+</sup> handling. Journal of Physiology, 2022, , .   | 2.9 | 1         |
| 64 | Competition of Ca transporters in relaxation of rabbit ventricular myocytes and Ca redistribution from mitochondria to SR during rest. Journal of Molecular and Cellular Cardiology, 1992, 24, 23.  | 1.9 | 0         |
| 65 | Negative Relationship Between Fractional SR Ca <sup>2+</sup> Release and Stimulation Rate. Biophysical Journal, 2009, 96, 11a.  | 0.5 | 0         |
| 66 | More Effective and Safer Cardiac Electric Stimulation Using Multidirectional and Biphasic Stimuli. Biophysical Journal, 2009, 96, 260a.   | 0.5 | 0         |
| 67 | Working out the heart: Functional remodeling by endurance exercise training. Journal of Molecular and Cellular Cardiology, 2013, 60, 47-49.   | 1.9 | 0         |
| 68 | Functionally Isolated Sarcoplasmic Reticulum Model: Intrinsic Regulation of SR Ca <sup>2+</sup> Release and Tetracaine Effect. Biophysical Journal, 2014, 106, 114a.  | 0.5 | 0         |
| 69 | Doxorubicin Stimulates the Na <sup>+</sup> /Ca <sup>2+</sup> Exchanger in Ventricular Cardiomyocytes. Biophysical Journal, 2014, 106, 531a.   | 0.5 | 0         |
| 70 | BugHeart: software for online monitoring and quantitation of contractile activity of the insect heart. Research on Biomedical Engineering, 2019, 35, 235-240.   | 2.2 | 0         |
| 71 | Impact of voltage-gated Na <sup>+</sup> channel biophysical properties on action potential upstroke. Journal of Molecular and Cellular Cardiology, 2020, 140, 48-49.  | 1.9 | 0         |
| 72 | Calcium release and uptake from the cardiac sarcoplasmic reticulum: Experimental and mathematical models. IFMBE Proceedings, 2007, , 992-995.   | 0.3 | 0         |

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|----|--|----|-----------|
| 73 | Modeling, Construction and Characterization of a 66-kHz Ultrasound Transducer for Cardiac Experimentation. , 2011, , . |    | 0         |