

## PUBLICAÇÕES DOS DOCENTES DO DEPARTAMENTO DE BIOQUÍMICA – 2021

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| 1. | <p>16S rRNA Gene Amplicon Sequencing Data of the Iron Quadrangle Ferruginous Caves (Brazil) Shows the Importance of Conserving This Singular and Threatened Geosystem</p> <p>Camila GC Lemes, Morghana M Villa, Érica B Felestrino, Luiza O Perucci, Renata AB Assis, Isabella F Cordeiro, Natasha P Fonseca, Lara CC Guerra, Washington L Caneschi, Lauro ÂG Moraes, Flávio F do Carmo, Luciana HY Kamino, Pedro NC Vale, Suzana ES Guima, João C Setubal, André AR Salgado, Leandro M Moreira</p> <p>Diversity 2021, 13(10), 494; <a href="https://doi.org/10.3390/d13100494">https://doi.org/10.3390/d13100494</a></p> <p><a href="https://www.mdpi.com/1424-2818/13/10/494">https://www.mdpi.com/1424-2818/13/10/494</a></p>   |
| 2. | <p>5-Aminolevulinic acid: A matter of life and caveats</p> <p>Etelvino JH Bechara, Luiz D Ramos, Cassius V Stevani</p> <p>Journal of Photochemistry and Photobiology Volume 7, September 2021, 100036</p> <p><a href="https://www.sciencedirect.com/science/article/pii/S266646902100021X">https://www.sciencedirect.com/science/article/pii/S266646902100021X</a></p>   |
| 3. | <p>A Comparative genomic analysis of Xanthomonas arboricola pv. juglandis population reveals the role of mobile genetic elements associated with adaptation and evolution of virulence</p> <p>Renata A B Assis, Alessandro M Varani, Cintia H D Sagawa, José S L Patané, João Carlos Setubal, Guillermo Uceda-Campos, Aline Maria da Silva, Paulo A Zaini, Nalvo F Almeida, Leandro Marcio Moreira, Abhaya M Dandekar</p> <p>Genomics. 2021 Jul;113(4):2513-2525. doi: 10.1016/j.ygeno.2021.06.003.</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/34089784/">https://pubmed.ncbi.nlm.nih.gov/34089784/</a></p>   |
| 4. | <p>A novel method for DNA delivery into bacteria using cationic copolymers</p> <p>VV de Souza, PAM Vitale, FH Florenzano, RK Salinas, IM Cuccovia</p> <p>Brazilian Journal of Medical and Biological Research 54 (5) 2021 <a href="https://doi.org/10.1590/1414-431X202010743">https://doi.org/10.1590/1414-431X202010743</a></p> <p><a href="https://www.scielo.br/j/bjmr/a/HMzxfT6zqhWrKwbN8jsjCCM/abstract/?lang=en">https://www.scielo.br/j/bjmr/a/HMzxfT6zqhWrKwbN8jsjCCM/abstract/?lang=en</a></p>   |
| 5. | <p>A Novel Saliva RT-LAMP Workflow for Rapid Identification of COVID-19 Cases and Restraining Viral Spread.</p> <p>KOBAYASHI, GERSON SHIGERU BRITO, LUCIANO ABREU MOREIRA, DANIELLE DE PAULA SUZUKI, ANGELA MAY HSIA, GABRIELLA SHIH PING PIMENTEL, LILYAN FRAGOSO DE PAIVA, ANA PAULA BARRETO DIAS, CAROLINA REGOLI LOURENÇO, NAILA CRISTINA VILAÇA OLIVEIRA, BEATRIZ ARAUJO MANULI, ERIKA REGINA CORRAL, MARCELO ANDREETTA CAVAÇANA, NATALE MITNE-NETO, MIGUEL SALES, MARIA MIRTES DELL' AQUILA, LUIZ PHELLIPE FILHO, ALVARO RAZUK PARRILLO, EDUARDO FAGUNDES MENDES-CORRÊA, MARIA CÁSSIA SABINO, ESTER CERDEIRA COSTA, SILVIA FIGUEIREDO LEAL, FABIO EUDES SGRO, GERMÁN GUSTAVO FARAH, CHUCK SHAKER ZATZ, MAYANA, MARIA RITA PASSOS-BUENO.</p> <p>Diagnostics, v. 11, p. 1400, 2021 doi: 10.3390/diagnostics11081400.</p> |

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|     | <a href="https://pubmed.ncbi.nlm.nih.gov/34441334/">https://pubmed.ncbi.nlm.nih.gov/34441334/</a>   |
| 6.  | <p>A probiotic has differential effects on allergic airway inflammation in A/J and C57BL/6 mice and is correlated with the gut microbiome</p> <p>Mateus B Casaro, Andrew M Thomas, Eduardo Mendes, Claudio Fukumori, Willian R Ribeiro, Fernando A Oliveira, Amanda R Crisma, Gilson M Murata, Bruna Bizzarro, Anderson Sá-Nunes, Joao C Setubal, Marcia PA Mayer, Flaviano S Martins, Angélica T Vieira, Ana TFB Antiorio, Wothan Tavares-de-Lima, Niels OS Camara, Rui Curi, Emmanuel Dias-Neto, Caroline M Ferreira</p> <p>Microbiome volume 9, Article number: 134 (2021)</p>   |
| 7.  | <p>A refined genome phage display methodology delineates the human antibody response in patients with Chagas disease</p> <p>André Azevedo Reis Teixeira, Luis Rodriguez Carnero, Andréia Kuramoto, Fenny Hui Fen Tang, Carlos Hernique Gomes, Natalia Bueno Pereira, Léa Campos de Oliveira, Regina Garrini, Jhonatas Sirino Monteiro, João Carlos Setubal, Ester Cerdeira Sabino, Renata Pasqualini, Walter Colli, Wadih Arap, Maria Júlia Manso Alves, Edécio Cunha-Neto, Ricardo José Giordano</p> <p>iScience 2021 May 15;24(6):102540. doi: 10.1016/j.isci.2021.102540.</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/34142048/">https://pubmed.ncbi.nlm.nih.gov/34142048/</a></p>   |
| 8.  | <p>ADP-ribosyltransferases, an update on function and nomenclature</p> <p>Bernhard Lüscher, Ivan Ahel, Matthias Altmeyer, Alan Ashworth, Peter Bai, Paul Chang, Michael Cohen, Daniela Corda, Françoise Dantzer, Matthew D Daugherty, Ted M Dawson, Valina L Dawson, Sebastian Deindl, Anthony R Fehr, Karla L H Feijs, Dmitri V Filippov, Jean-Philippe Gagné, Giovanna Grimaldi, Sebastian Guettler, Nicolas C Hoch, Michael O Hottiger, Patricia Korn, W Lee Kraus, Andreas Ladurner, Lari Lehtiö, Anthony K L Leung, Christopher J Lord, Aswin Mangerich, Ivan Matic, Jason Matthews, George-Lucian Moldovan, Joel Moss, Gioacchino Natoli, Michael L Nielsen, Mario Niepel, Friedrich Nolte, John Pascal, Bryce M Paschal, Krzysztof Pawłowski, Guy G Poirier, Susan Smith, Gyula Timinszky, Zhao-Qi Wang, José Yélamos, Xiaochun Yu, Roko Zaja, Mathias Ziegler</p> <p>FEBS J. 2021 Jul 29. doi: 10.1111/febs.16142.</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/34323016/">https://pubmed.ncbi.nlm.nih.gov/34323016/</a></p> |
| 9.  | <p>Aerobic co-oxidation of hemoglobin and aminoacetone, a putative source of methylglyoxal</p> <p>Luiz D Ramos, Mariana C Mantovani, Adriano Sartori, Fernando Dutra, Cassius V Stevani, Etelvino JH Bechara</p> <p>Free Radical Biology and Medicine Volume 166, April 2021, Pages 178-186</p> <p><a href="https://doi.org/10.1016/j.freeradbiomed.2021.02.023">https://doi.org/10.1016/j.freeradbiomed.2021.02.023</a></p> <p><a href="https://www.sciencedirect.com/science/article/pii/S0891584921001143">https://www.sciencedirect.com/science/article/pii/S0891584921001143</a></p>   |
| 10. | <p>Alkylation of a hydrophilic photosensitizer enhances the contact-dependent photo-induced oxidation of phospholipid membranes</p> <p>Alejandro Vignoni, Carla Layana, Helena C Junqueira, Andrés H Thomas, Rosangela Itri, Mauricio S Baptista, Mariana Vignoni</p> <p>Dyes and Pigments Volume 187, March 2021, 109131 <a href="https://doi.org/10.1016/j.dyepig.2020.109131">https://doi.org/10.1016/j.dyepig.2020.109131</a></p> <p><a href="https://www.sciencedirect.com/science/article/pii/S0143720820318283">https://www.sciencedirect.com/science/article/pii/S0143720820318283</a></p>  |

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| 11. | <p>An Efficient, Nonphylogenetic Method for Detecting Genes Sharing Evolutionary Signals in Phylogenomic Data Sets</p> <p>Luiz Thibério Rangel, Shannon M Soucy, João C Setubal, Johann Peter Gogarten, Gregory P Fournier</p> <p>Genome Biol Evol. 2021 Sep 1;13(9):evab187. doi: 10.1093/gbe/evab187</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/34390574/">https://pubmed.ncbi.nlm.nih.gov/34390574/</a></p>   |
| 12. | <p>Announcing the call for the Special Issue on the 20th International Congress of the International Union of Pure and Applied Biophysics (IUPAB)</p> <p>Rosangela Itri, Mauricio S Baptista, Richard Garratt, Antonio José da Costa Filho</p> <p>Biophysical Reviews volume 13, pages171–172 (2021)</p>  |
| 13. | <p>Antagonistic Roles of P2X7 and P2Y2 Receptors in Neurodegenerative Diseases</p> <p>Glaser T, Oliveira-Giacomelli Á, Petiz LL, Ribeiro DE, Andrejew R, Ulrich H.</p> <p>Front Pharmacol. 2021; 12: 659097. doi: 10.3389/fphar.2021.659097</p> <p><a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8072373/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8072373/</a></p>  |
| 14. | <p>Antibacterial effect of hyaluronan/chitosan nanofilm in the initial adhesion of Pseudomonas aeruginosa wild type, and IV pili and LPS mutant strains</p> <p>Jacobo Hernandez-Montelongo, Gianluca G Nicastro, Thays de O Pereira, Mariana Zavarize, Marisa M Beppu, Waldemar AA Macedo, Regina L Baldini, Monica A Cotta</p> <p>Surfaces and Interfaces Volume 26, October 2021, 101415 <a href="https://doi.org/10.1016/j.surfin.2021.101415">https://doi.org/10.1016/j.surfin.2021.101415</a></p> <p><a href="https://www.sciencedirect.com/science/article/pii/S2468023021004922">https://www.sciencedirect.com/science/article/pii/S2468023021004922</a></p> |
| 15. | <p>Antimicrobial Polymer– Based Assemblies: A Review</p> <p>Ana Maria Carmona-Ribeiro, Péricles Marques Araújo</p> <p>int. J. Mol. Sci. 2021, 22(11), 5424; <a href="https://doi.org/10.3390/ijms22115424">https://doi.org/10.3390/ijms22115424</a></p> <p><a href="https://www.mdpi.com/1422-0067/22/11/5424">https://www.mdpi.com/1422-0067/22/11/5424</a></p>  |
| 16. | <p>Aptamer Applications in Emerging Viral Diseases</p> <p>Krüger A, de Jesus Santos AP, de Sá V, Ulrich H, Wrenger C.</p> <p>Pharmaceuticals (Basel). 2021 Jun 28;14(7):622. doi: 10.3390/ph14070622.PMID: 34203242 Free PMC article. Review.</p> <p><a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8308861/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8308861/</a></p>  |
| 17. | <p>Assessing the efficacy of eDNA metabarcoding for measuring microbial biodiversity within forest ecosystems.</p> <p>Zachary S. Ladin, Barbra Ferrell, Jacob T. Dums, Ryan M. Moore, Delphis F. Levia, W. Gregory Shriver, Vincent D’Amico, Tara L. E. Trammell, João Carlos Setubal, K. Eric Wommack</p>  |

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|     | <p>Scientific Reports 15;11(1):1629. doi: 10.1038/s41598-020-80602-9, 2021</p> <p><a href="https://www.nature.com/articles/s41598-020-80602-9">https://www.nature.com/articles/s41598-020-80602-9</a></p>  |
| 18. | <p>Assessment of reference genes at six different developmental stages of <i>Schistosoma mansoni</i> for quantitative RT-PCR</p> <p>Gilbert O Silveira, Murilo S Amaral, Helena S Coelho, Lucas F Maciel, Adriana SA Pereira, Giovanna GO Olberg, Patricia A Miyasato, Eliana Nakano, Sergio Verjovski-Almeida</p> <p>Scientific Reports volume 11, Article number: 16816 (2021) <a href="https://doi.org/10.1038/s41598-021-96055-7">https://doi.org/10.1038/s41598-021-96055-7</a></p> <p><a href="https://www.nature.com/articles/s41598-021-96055-7">https://www.nature.com/articles/s41598-021-96055-7</a></p>  |
| 19. | <p>ATP and spontaneous calcium oscillations control neural stem cell fate determination in Huntington's disease: a novel approach for cell clock research</p> <p>Glaser T, Shimojo H, Ribeiro DE, Martins PPL, Beco RP, Kosinski M, Sampaio VFA, Corrêa-Velloso J, Oliveira-Giacomelli Á, Lameu C, de Jesus Santos AP, de Souza HDN, Teng YD, Kageyama R, Ulrich H</p> <p>Mol Psychiatry. 2021 Jun;26(6):2633-2650. doi: 10.1038/s41380-020-0717-5.</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/32350390/">https://pubmed.ncbi.nlm.nih.gov/32350390/</a></p>   |
| 20. | <p>Autism Spectrum Disorder: Signaling Pathways and Prospective Therapeutic Targets</p> <p>Baranova J, Dragunas G, Botelho MCS, Ayub ALP, Bueno-Alves R, Alencar RR, Papaiz DD, Sogayar MC, Ulrich H, Correa RG.</p> <p>Cell Mol Neurobiol. 2021 May;41(4):619-649. doi: 10.1007/s10571-020-00882-7.</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/32468442/">https://pubmed.ncbi.nlm.nih.gov/32468442/</a></p>  |
| 21. | <p>Autophagy in Hepatic Steatosis: A Structured Review.</p> <p>Ramos VM, Kowaltowski AJ, Kakimoto PA.</p> <p>Front Cell Dev Biol. 2021 Apr 15;9:657389. doi: 10.3389/fcell.2021.657389.</p> <p><a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8081956/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8081956/</a></p>   |
| 22. | <p>Bioactive compounds and hepatoprotective effect of <i>Hancornia speciosa</i> gomes fruit juice on acetaminophen-induced hepatotoxicity in vivo</p> <p>Rosangela S Santos, Adriano B Chaves-Filho, Luiz AS Silva, Carlos AB Garcia, Audrey RST Silva, Silvio S Dolabella, Silvânio SL da Costa, Sayuri Miyamoto, Humberto R Matos</p> <p>Natural Product Research Accepted 07 Mar 2021, <a href="https://doi.org/10.1080/14786419.2021.1902324">https://doi.org/10.1080/14786419.2021.1902324</a></p> <p><a href="https://www.tandfonline.com/doi/full/10.1080/14786419.2021.1902324">https://www.tandfonline.com/doi/full/10.1080/14786419.2021.1902324</a></p> |
| 23. | <p>Bioactivity and composition of lipophilic metabolites extracted from Antarctic macroalgae</p> <p>Lucas M Berneira, Ivandra I de Santi, Caroline C da Silva, Dalila Venzke, Pio Colepicolo, Rodrigo de A Vaucher, Marco AZ Dos Santos, Claudio MP de Pereira</p> <p>Brazilian Journal of Microbiology volume 52, pages1275–1285 (2021)</p> <p><a href="https://doi.org/10.1016/j.ejar.2016.07.003">https://doi.org/10.1016/j.ejar.2016.07.003</a></p> <p><a href="https://link.springer.com/article/10.1007/s42770-021-00475-6">https://link.springer.com/article/10.1007/s42770-021-00475-6</a></p>   |

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| 24. | <p>Biocompatible Lipid Polymer Cationic Nanoparticles for Antigen Presentation</p> <p>Yunys Pérez-Betancourt, Bianca Távora, Eliana Faquim-Mauro, Ana Carmona-Ribeiro</p> <p>Polymers 2021, 13(2), 185; <a href="https://doi.org/10.3390/polym13020185">https://doi.org/10.3390/polym13020185</a></p> <p><a href="https://www.mdpi.com/2073-4360/13/2/185">https://www.mdpi.com/2073-4360/13/2/185</a></p>  |
| 25. | <p>Brazil's scientists face 90% budget cut</p> <p>Alicia J. Kowaltowski</p> <p>Nature 598, 566 (2021)</p> <p><a href="https://www.nature.com/articles/d41586-021-02882-z">https://www.nature.com/articles/d41586-021-02882-z</a></p>  |
| 26. | <p>Cancer Metabostemness and Metabolic Reprogramming via P2X7 Receptor</p> <p>Rabelo ILA, Arnaud-Sampaio VF, Adinolfi E, Ulrich H, Lameu C</p> <p>Cells. 2021 Jul 14;10(7):1782. doi: 10.3390/cells10071782</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/34359950/">https://pubmed.ncbi.nlm.nih.gov/34359950/</a></p>  |
| 27. | <p>Carbon dioxide redox metabolites in oxidative eustress and oxidative distress</p> <p>Ohara Augusto, Daniela Ramos Truzzi</p> <p>Biophysical Reviews, 1-3, Springer Berlin Heidelberg</p> <p><a href="https://link.springer.com/article/10.1007/s12551-021-00860-3">https://link.springer.com/article/10.1007/s12551-021-00860-3</a></p>  |
| 28. | <p>Cationic and Biocompatible Polymer/Lipid Nanoparticles as Immunoadjuvants</p> <p>Yunys Pérez-Betancourt, Péricles Marques Araujo, Bianca de Carvalho Lins Fernandes Távora, Daniele Rodrigues Pereira, Eliana Lima Faquim-Mauro, Ana Maria Carmona-Ribeiro</p> <p>Pharmaceutics 2021, 13(11), 1859; <a href="https://doi.org/10.3390/pharmaceutics13111859">https://doi.org/10.3390/pharmaceutics13111859</a></p> <p><a href="https://www.mdpi.com/1999-4923/13/11/1859">https://www.mdpi.com/1999-4923/13/11/1859</a></p>                             |
| 29. | <p>Cellular compartments challenged by membrane photo-oxidation</p> <p>Tayana Mazin Tsubone, Waleska Kerllen Martins, Marcia SF Franco, Maryana N Silva, Rosangela Itri, Mauricio S Baptista</p> <p>Archives of Biochemistry and Biophysics Volume 697, 15 January 2021, 108665</p> <p><a href="https://doi.org/10.1016/j.abb.2020.108665">https://doi.org/10.1016/j.abb.2020.108665</a></p> <p><a href="https://www.sciencedirect.com/science/article/pii/S0003986120306743">https://www.sciencedirect.com/science/article/pii/S0003986120306743</a></p> |
| 30. | <p>Changes in mitochondrial morphology modulate LPS-induced loss of calcium homeostasis in BV-2 microglial cells.</p> <p>Pereira OR Jr, Ramos VM, Cabral-Costa JV, Kowaltowski AJ.</p> <p>J Bioenerg Biomembr. 2021 Apr;53(2):109-118. doi: 10.1007/s10863-021-09878-4.</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/33585958/">https://pubmed.ncbi.nlm.nih.gov/33585958/</a></p>  |

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| 31. | <p>Characterization of rat liver bud-derived cells</p> <p>Dara Rúbia Souza Silva, Ana Claudia Oliveira Carreira, Amanda Olivotti Ferreira, Mônica Duarte da Silva, Mari Cleide Sogayar, Maria Angelica Miglino</p> <p>Tissue Cell. 2021 Aug;71:101510. doi: 10.1016/j.tice.2021.101510.</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/33721789/">https://pubmed.ncbi.nlm.nih.gov/33721789/</a></p>   |
| 32. | <p>Circulating plasma miRNA and clinical/hemodynamic characteristics provide additional predictive information about acute pulmonary thromboembolism, chronic thromboembolic pulmonary hypertension and idiopathic pulmonary hypertension.</p> <p>A.T. Fabro, J. Machado-Rugolo, C.M. Baldavira, T. Prieto, C. Farhat, F. Mangone, S. Batah, H. Cruvinel, M. Alda, J.S. Monteiro, A. Padua, S. Morais, R. Oliveira, M. Santos, J. Baddini, J.C. Setubal, C. Rainho, H.H.B. Yoo, P.L. Silva, M. A. Nagai, V.L. Capelozzi</p> <p>Frontiers in Pharmacology, Section Respiratory Pharmacology, 12(1287), 2021</p> <p><a href="http://dx.doi.org/10.3389/fphar.2021.648769">http://dx.doi.org/10.3389/fphar.2021.648769</a></p> <p><a href="https://repositorio.unesp.br/handle/11449/207868">https://repositorio.unesp.br/handle/11449/207868</a></p> |
| 33. | <p>Co-Encapsulation of Methylene Blue and PARP-Inhibitor into Poly(Lactic-Co-Glycolic Acid) Nanoparticles for Enhanced PDT of Cancer</p> <p>Jéssica A Magalhães, Denise C Arruda, Maurício S Baptista, Dayane B Tada</p> <p>Nanomaterials 2021, 11(6), 1514; <a href="https://doi.org/10.3390/nano11061514">https://doi.org/10.3390/nano11061514</a></p> <p><a href="https://www.mdpi.com/2079-4991/11/6/1514">https://www.mdpi.com/2079-4991/11/6/1514</a></p>  |
| 34. | <p>Combination of a multiplatform metabolite profiling approach and chemometrics as a powerful strategy to identify bioactive metabolites in <i>Lepidium meyenii</i> (Peruvian maca)</p> <p>Fernanda V Carvalho, Lucia Fonseca Santana, Victor Diogenes A da Silva, Silvia L Costa, Leonardo Zambotti-Villelae, Pio Colepicolo, Caline G Ferraz, Paulo R Ribeiro</p> <p>Food Chemistry 364, 130453 <a href="https://doi.org/10.1016/j.foodchem.2021.130453">https://doi.org/10.1016/j.foodchem.2021.130453</a></p> <p><a href="https://www.sciencedirect.com/science/article/pii/S030881462101459X">https://www.sciencedirect.com/science/article/pii/S030881462101459X</a></p>  |
| 35. | <p>Competing Endogenous RNA in Colorectal Cancer: an analysis for colon, rectum and rectosigmoid junction.</p> <p>Lucas Maciel Vieira, Natasha Andressa Nogueira Jorge, João Batista de Sousa, João Carlos Setubal, Peter F Stadler, Maria Emília Machado Telles Walter</p> <p>Frontiers in Oncology, section Molecular and Cellular Oncology. v11, 681579, 2021 DOI: 10.3389/fonc.2021.681579</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/34178670/">https://pubmed.ncbi.nlm.nih.gov/34178670/</a></p>  |
| 36. | <p>Conjugates of desferrioxamine and aromatic amines improve markers of iron-dependent neurotoxicity</p> <p>Rodrigo RV Carvalho, Tanara V Peres, Cleber W Liria, M Teresa Machini, Michael Aschner, Breno P Esposito</p>   |

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|     | <p>BioMetals volume 34, pages259–275 (2021)</p> <p><a href="https://link.springer.com/article/10.1007/s10534-020-00277-7">https://link.springer.com/article/10.1007/s10534-020-00277-7</a></p>  |
| 37. | <p>Co-Transplantation of Marginal Mass Allogeneic Islets with 3D-Culture-Derived Adult Human Skin Cells Improves Glycemia in Diabetic Mice</p> <p>Talita C Oliveira, Maria F Forni, Ancély F Santos, Rosangela AM Wailemann, Leticia F Terra, Luz Andreone, Vinicius M Gomes, Janaina Macedo Silva, Livia Rosa-Fernandes, Mari C Sogayar, Giuseppe Palmisano, Leticia Labriola, Marcelo J Perone</p> <p>Research Square, 07 Oct 2021 <a href="https://doi.org/10.21203/rs.3.rs-951683/v1">https://doi.org/10.21203/rs.3.rs-951683/v1</a></p> <p><a href="https://assets.researchsquare.com/files/rs-951683/v1/a22c7372-1667-46c6-beeb-7e89d4977292.pdf?c=1633618177">https://assets.researchsquare.com/files/rs-951683/v1/a22c7372-1667-46c6-beeb-7e89d4977292.pdf?c=1633618177</a></p> |
| 38. | <p>Curcuminoid-Tailored Interfacial Free Energy of Hydrophobic Fibers for Enhanced Biological Properties</p> <p>de Deus WF, de França BM, Forero JSB, Granato AEC, Ulrich H, Dória ACOC, Amaral MM, Slabon A, Rodrigues BVM.</p> <p>ACS Appl Mater Interfaces. 2021 Jun 2; 13(21): 24493–24504. 10.1021/acsami.1c05034</p> <p><a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8289194/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8289194/</a></p>   |
| 39. | <p>Cytotoxicity of Methotrexate Conjugated to Glycerol Phosphate Modified Superparamagnetic Iron Oxide Nanoparticles</p> <p>Daiana K Deda, Roberta M Cardoso, Rodrigo K Kawassaki, Andre R de Oliveira, Sergio H Toma, Mauricio S Baptista, Koiti Araki</p> <p>Journal of Nanoscience and Nanotechnology, Volume 21, Number 3, March 2021, pp. 1451-1461(11)</p> <p><a href="https://doi.org/10.1166/jnn.2021.19027">https://doi.org/10.1166/jnn.2021.19027</a></p> <p><a href="https://www.ingentaconnect.com/contentone/asp/jnn/2021/00000021/00000003/art00007">https://www.ingentaconnect.com/contentone/asp/jnn/2021/00000021/00000003/art00007</a></p>  |
| 40. | <p>Dementia is an age-independent risk factor for severity and death in COVID-19 inpatients</p> <p>Ana C Tahira, Sergio Verjovski-Almeida, Sergio T Ferreira</p> <p>Alzheimer's &amp; Dementia First published: 21 April 2021 <a href="https://doi.org/10.1002/alz.12352">https://doi.org/10.1002/alz.12352</a></p> <p><a href="https://alz-journals.onlinelibrary.wiley.com/doi/full/10.1002/alz.12352">https://alz-journals.onlinelibrary.wiley.com/doi/full/10.1002/alz.12352</a></p>  |
| 41. | <p>Detection of DNA Adduct Formation in Rat Lungs by a Micro-HPLC/MS/MS Approach</p> <p>Angélica B Sanchez, Camila Garcia, Paolo Di Mascio, Marisa HG Medeiros</p> <p>Lung Cancer pp 225-239 <a href="https://doi.org/10.1007/978-1-0716-1278-1_18">https://doi.org/10.1007/978-1-0716-1278-1_18</a></p> <p><a href="https://link.springer.com/protocol/10.1007/978-1-0716-1278-1_18">https://link.springer.com/protocol/10.1007/978-1-0716-1278-1_18</a></p>   |
| 42. | <p>Diamond Nanoparticles-Porphyrin mTHPP Conjugate as Photosensitizing Platform: Cytotoxicity and Antibacterial Activity</p> <p>Carolina Ramos Hurtado, Gabriela Ramos Hurtado, Gabrielle Lupeti de Cena, Rafaela Campos Queiroz, Alexandre Vieira Silva, Milton Faria Diniz, Verônica Ribeiro dos Santos, Vladimir Trava-Airoldi, Maurício da Silva Baptista, Ncediwe Tsolekile, Oluwatobi Samuel Oluwafemi, Katia Conceição, Dayane Batista Tada</p>  |

|     |   |
|-----|---|
|     | anomaterials 2021, 11(6), 1393; <a href="https://doi.org/10.3390/nano11061393">https://doi.org/10.3390/nano11061393</a><br><a href="https://www.mdpi.com/2079-4991/11/6/1393">https://www.mdpi.com/2079-4991/11/6/1393</a>  |
| 43. | Dietary sodium restriction alters muscle lipidomics that relates to insulin resistance in mice<br><br>Paula Ramos Pinto, Marcos Y Yoshinaga, Vanessa Del Bianco, Ana Paula Bochi, Guilherme S Ferreira, Isabella FD Pinto, Letícia G Rodrigues, Edna R Nakandakare, Maristela M Okamoto, Ubiratan F Machado, Sayuri Miyamoto, Sergio Catanozi, Marisa Passarelli<br><br>Journal of Biological Chemistry VOLUME 296, 100344, JANUARY 2021<br>DOI: <a href="https://doi.org/10.1016/j.jbc.2021.100344">https://doi.org/10.1016/j.jbc.2021.100344</a><br><br><a href="https://www.jbc.org/article/S0021-9258(21)00116-2/fulltext">https://www.jbc.org/article/S0021-9258(21)00116-2/fulltext</a> |
| 44. | Differences in Gluco and Galacto Substrate-Binding Interactions in a Dual 6P $\beta$ -Glucosidase/6P $\beta$ -Galactosidase Glycoside Hydrolase 1 Enzyme from Bacillus licheniformis.<br><br>VELDMAN, WAYDE; LIBERATO, MARCELO VIZONA; SOUZA, VALQUIRIA P.; ALMEIDA, VITOR M.; MARANA, SANDRO ROBERTO; TASTAN BISHOP, ÖZLEM; POLIKARPOV, IGOR<br><br>Journal of Chemical Information and Modeling, 61, 4554-4570; 2021<br><br><a href="https://pubs.acs.org/doi/10.1021/acs.jcim.1c00413">https://pubs.acs.org/doi/10.1021/acs.jcim.1c00413</a>   |
| 45. | Dinitrosyl Iron Complexes (DNICs). From Spontaneous Assembly to Biological Roles<br><br>Daniela R. Truzzi, Nathalia M. Medeiros, Ohara Augusto, and Peter C. Ford<br><br>Inorg. Chem. 2021. <a href="https://doi.org/10.1021/acs.inorgchem.1c00823">https://doi.org/10.1021/acs.inorgchem.1c00823</a><br><br><a href="https://pubs.acs.org/doi/10.1021/acs.inorgchem.1c00823">https://pubs.acs.org/doi/10.1021/acs.inorgchem.1c00823</a> <a href="https://doi.org/10.1021/acs.inorgchem.1c00823">https://doi.org/10.1021/acs.inorgchem.1c00823</a><br><a href="https://pubs.acs.org/doi/10.1021/acs.inorgchem.1c00823">3</a>  |
| 46. | Does the RAAS play a role in loss of taste and smell during COVID-19 infections?<br><br>Heloise R Luchiari, Ricardo J Giordano, Richard L Sidman, Renata Pasqualini, Wadih Arap<br><br>Review Pharmacogenomics J. 2021 Apr;21(2):109-115. doi: 10.1038/s41397-020-00202-8<br><br><a href="https://pubmed.ncbi.nlm.nih.gov/33323946/">https://pubmed.ncbi.nlm.nih.gov/33323946/</a>  |
| 47. | Dynamic expression of Ralstonia solanacearum virulence factors and metabolism-controlling genes during plant infection<br><br>R de Pedro-Jové, M Puigvert, P Sebastià, A P Macho, J S Monteiro, N S Coll, J C Setúbal, M Valls<br><br>BMC Genomics. 2021 Mar 9;22(1):170. doi: 10.1186/s12864-021-07457-w<br><br><a href="https://pubmed.ncbi.nlm.nih.gov/33750302/">https://pubmed.ncbi.nlm.nih.gov/33750302/</a>  |
| 48. | Electrophilic oxysterols: generation, measurement and protein modification<br><br>Sayuri Miyamoto, Rodrigo S Lima, Alex Inague, Lucas G Viviani<br><br>Free Radical Research, Volume 55, 2021 - Issue 4 <a href="https://doi.org/10.1080/10715762.2021.1879387">https://doi.org/10.1080/10715762.2021.1879387</a><br><br><a href="https://www.tandfonline.com/doi/full/10.1080/10715762.2021.1879387">https://www.tandfonline.com/doi/full/10.1080/10715762.2021.1879387</a>  |
| 49. | Experimental mapping of a pH gradient from a positively charged micellar interface to bulk solution   |



|     |   |
|-----|---|
|     | <p>Caroline Dutra Lacerda, Marcos Felipe Calegari Andrade, Phillippe de Santana Pessoa, Fernanda Manso Prado, Paulo Augusto Rodrigues Pires, Marcos Felipe Pinatto-Botelho, Felipe Wodtke, Alcindo Aparecido Dos Santos, Luis Gustavo Dias, Filipe da Silva Lima, Hernan Chaimovich, Iolanda Midea Cuccovia</p> <p>Colloids and Surfaces A: Physicochemical and Engineering Aspects Volume 611, 20 February 2021, 125770 <a href="https://doi.org/10.1016/j.colsurfa.2020.125770">https://doi.org/10.1016/j.colsurfa.2020.125770</a></p> <p><a href="https://www.sciencedirect.com/science/article/pii/S0927775720313637">https://www.sciencedirect.com/science/article/pii/S0927775720313637</a></p> |
| 50. | <p>Field microenvironments regulate crop diel transcript and metabolite rhythms</p> <p>Luíza Lane Barros Dantas, Maíra Marins Dourado, Natalia Oliveira de Lima, Natale Cavaçana, Milton Yutaka Nishiyama Jr., Glaucia Mendes Souza, Monalisa Sampaio Carneiro, Camila Caldana, Carlos Takeshi Hotta</p> <p>New Phytologist. First published: 27 July 2021</p> <p><a href="https://doi.org/10.1111/nph.17650">https://doi.org/10.1111/nph.17650</a></p> <p><a href="https://nph.onlinelibrary.wiley.com/doi/10.1111/nph.17650">https://nph.onlinelibrary.wiley.com/doi/10.1111/nph.17650</a></p>  |
| 51. | <p>From Crops to Shops: How Agriculture Can Use Clocks.</p> <p>Carlos Takeshi Hotta</p> <p>Accepted at Journal of Experimental Botany.</p> <p><a href="https://doi.org/10.1093/jxb/erab371">https://doi.org/10.1093/jxb/erab371</a></p> <p><a href="https://academic.oup.com/jxb/advance-article/doi/10.1093/jxb/erab371/6345417">https://academic.oup.com/jxb/advance-article/doi/10.1093/jxb/erab371/6345417</a></p>  |
| 52. | <p>From purines to purinergic signalling: molecular functions and human diseases</p> <p>Huang Z, Xie N, Illes P, Di Virgilio F, Ulrich H, Semyanov A, Verkhatsky A, Sperlagh B, Yu SG, Huang C, Tang Y.</p> <p>Signal Transduct Target Ther. 2021 Apr 28;6(1):162. doi: 10.1038/s41392-021-00553-z.</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/33907179/">https://pubmed.ncbi.nlm.nih.gov/33907179/</a></p>  |
| 53. | <p>Genetic Background Effects on the Expression of an Odorant Receptor Gene.</p> <p>Artur Guazzelli Leme Silva, Maira Harume Nagai, Thiago Seike Nakahara, Bettina Malnic</p> <p>Front Cell Neurosci. 2021 Feb 25;15:646413. doi: 10.3389/fncel.2021.646413.</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/33716678/">https://pubmed.ncbi.nlm.nih.gov/33716678/</a></p>   |
| 54. | <p>Genome-resolved metagenome and metatranscriptome analyses of thermophilic composting reveal key bacterial players and their metabolic interactions</p> <p>Lucas Palma Perez Braga, Roberta Verciano Pereira, Layla Farage Martins, Livia Maria Silva Moura, Fabio Beltrame Sanchez, José Salvatore Leister Patané, Aline Maria da Silva and João Carlos Setubal</p> <p>BMC Genomics volume 22, Article number: 652 (2021)</p> <p><a href="https://bv.fapesp.br/pt/publicacao/199382/">https://bv.fapesp.br/pt/publicacao/199382/</a></p>   |
| 55. | <p>Genomic characterization of mcr-1.1-producing Escherichia coli recovered from human infections in São Paulo, Brazil.</p>   |

|     |  |
|-----|--|
|     | <p>Raquel Girardello, Carlos Morais Piroupo, Joaquim Martins, Jr., Marcia Helena Maffucci, Ana Paula Cury,3 Maria Renata Gomes Franco, Fernanda de Mello Malta, Natália Conceição Rocha, João Renato Rebello Pinho, Flavia Rossi, Alberto José da Silva Duarte, and João Carlos Setubal</p> <p>Frontiers in Microbiology, Section Antimicrobials, Resistance and Chemotherapy, v12, 663414, 2021</p> <p>doi: 10.3389/fmicb.2021.663414</p> <p><a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8221240/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8221240/</a></p>  |
| 56. | <p>Glutaminolysis dynamics during astrocytoma progression correlates with tumor aggressiveness</p> <p>Yollanda E Moreira Franco, Maria Jose Alves, Miyuki Uno, Isabele Fattori Moretti, Marina Trombetta-Lima, Suzana de Siqueira Santos, Ancely Ferreira Dos Santos, Gabriel Santos Arini, Mauricio S Baptista, Antonio Marcondes Lerario, Sueli Mieko Oba-Shinjo, Suely Kazue Nagahashi Marie</p> <p>Cancer &amp; Metabolism volume 9, Article number: 18 (2021)</p> <p><a href="https://cancerandmetabolism.biomedcentral.com/articles/10.1186/s40170-021-00255-8">https://cancerandmetabolism.biomedcentral.com/articles/10.1186/s40170-021-00255-8</a></p>  |
| 57. | <p>GTPases, genome, actin: A hidden story in DNA damage response and repair mechanisms.</p> <p>Yuli T Magalhaes, Jessica O Farias, Luiz E Silva, Fabio L Forti</p> <p>Review DNA Repair (Amst). 2021 Apr;100:103070. doi: 10.1016/j.dnarep.2021.103070</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/33618126/">https://pubmed.ncbi.nlm.nih.gov/33618126/</a></p>  |
| 58. | <p>Guidelines for the use and interpretation of assays for monitoring autophagy 1</p> <p>Daniel Klionsky, Amal Kamal Abdel-Aziz, Sara Abdelfatah, Mahmoud Abdellatif, Asghar Abdoli, Steffen Abel, Hagai Abeliovich, Marie Abildgaard, Yakubu Princely Abudu, Abraham Acevedo-Arozena, Iannis Adamopoulos, Khosrow Adeli, Timon Adolph, Annagrazia Adornetto, Elma Aflaki, Galila Agam, Anupam Agarwal, Bharat Aggarwal, Maria Agnello, Patrizia Agostinis, Javed Agrewala, Alexander Agrotis, Patricia Aguilar, S Tariq Ahmad, Zubair Ahmed, Ulises Ahumada-Castro, Sonja Aits, Shu Aizawa, Yunus Akkoc, Tonia Akoumianaki, Hafize Aysin Akpınar, Ahmed Al-Abd, Lina Al-Akra, Abeer Al-Gharaibeh, Moulay Alaoui-Jamali, Simon Alberti, Elísabet Alcocer-Gómez, Cristiano Alessandri, Muhammad Ali, M Abdul Alim Al-Bari, Saeb Aliwaini, Javad Alizadeh, Eugènia Almacellas, Alexandru Almasan, Alicia Alonso, Guillermo Alonso, Nihal Altan-Bonnet, Dario Altieri, Élica Álvarez, Sara Alves, Cristine Alves Da Costa, Mazen Alzaharna, Marialaura Amadio, Consuelo Amantini, Cristina Amaral, Susanna Ambrosio, Amal Amer, Veena Ammanathan, Zhenyi An, Stig Andersen, Shaida Andrabi, Magaiver Andrade-Silva, Allen Andres, Sabrina Angelini, David Ann, Uche Anozie, Mohammad Ansari, Pedro Antas, Adam Antebi, Zuriñe Antón, Tahira Anwar, Lionel Apetoh, Nadezda Apostolova, Toshiyuki Araki, Yasuhiro Araki, Kohei Arasaki, Wagner Araújo, Jun Araya, Catherine Arden, Maria-Angeles Arévalo, Sandro Arguelles, Esperanza Arias, Jyothi Arikath, Hirokazu Arimoto, Aileen Ariosa, Darius Armstrong-James, Laetitia Arnauné-Pelloquin, Angeles Aroca, Daniela Arroyo, Ivica Arsov, Rubén Artero, Dalia Maria Lucia Asaro, Michael Aschner, Milad Ashrafizadeh, Osnat Ashur-Fabian, Atanas Atanasov, Alicia Au, Patrick Auberger, Holger Auner, Laure Aurelian, Riccardo Autelli, Laura Avagliano, Yenniffer Ávalos, Sanja Aveic, Célia Alexandra Aveleira, Tamar Avin-Wittenberg, Yucel Aydin, Scott Ayton, Srinivas Ayyadevara, Maria Azzopardi, Misuzu Baba, Jonathan Backer, Steven Backues, Dong-Hun Bae, Ok-Nam Bae, Soo Han Bae, Eric Baehrecke, Ahruem Baek, Seung-Hoon Baek, Sung Hee Baek, Giacinto Bagetta, Agnieszka Bagniewska-Zadworna, Hua Bai, Jie Bai, Xiyuan Bai, Yidong Bai, Nandadulal Bairagi, Shounak Baksi, Teresa Balbi, Cosima Baldari, Walter Balduini, Andrea Ballabio, Maria Ballester, Salma Balazadeh, Rena Balzan, Rina Bandopadhyay, Sreeparna Banerjee, Sulagna Banerjee, Ágnes Bánréti, Yan Bao, Mauricio Baptista, Alessandra Baracca, Cristiana Barbati, Ariadna Bargiela, Daniela Barilà, Peter Barlow, Sami Barmada, Esther Barreiro, George Barreto, Jiri Bartek</p> |

|     |   |
|-----|---|
|     | <p>Autophagy. 2021 Jan;17(1):1-382. doi: 10.1080/15548627.2020.1797280.</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/33634751/">https://pubmed.ncbi.nlm.nih.gov/33634751/</a></p>  |
| 59. | <p>Half a century deciphering membrane structure, dynamics and function: a short description of the life and research of Shirley Schreier</p> <p>Shirley Schreier</p> <p>Biophysical Reviews <a href="https://doi.org/10.1007/s12551-021-00904-8">https://doi.org/10.1007/s12551-021-00904-8</a></p>  |
| 60. | <p>HDL proteome remodeling associates with COVID-19 severity</p> <p>Douglas Ricardo de Souza Junior, Amanda Ribeiro Martins da Silva, Livia Rosa-Fernandes, Lorena Rocha Reis, Gabrielly Alexandria, Santhosh D Bhosale, Fabio de Rose Ghilardi, Talia Falcão Dalçóquio, Adriadne Justi Bertolin, José Carlos Nicolau, Claudio RF Marinho, Carsten Wrenger, Martin R Larsen, Rinaldo Focaccia Siciliano, Paolo Di Mascio, Giuseppe Palmisano, Graziella Eliza Ronsein</p> <p>Journal of Clinical Lipidology Available online 31 October 2021 <a href="https://doi.org/10.1016/j.jacl.2021.10.005">https://doi.org/10.1016/j.jacl.2021.10.005</a></p> <p><a href="https://www.sciencedirect.com/science/article/pii/S1933287421002567">https://www.sciencedirect.com/science/article/pii/S1933287421002567</a></p> |
| 61. | <p>Highly Dynamic Polynuclear Metal Cluster Revealed in a Single Metallothionein Molecule</p> <p>Guodong Yuan, Felipe Curtolo, Yibing Deng, Tao Wu, Fang Tian, Qun Ma, Yutong Liu, Jinglin Zuo, Guilherme Menegon Arantes, Peng Zheng</p> <p>Research (Wash D C). 2021 Jul 14;2021:9756945. doi: 10.34133/2021/9756945., 11 pages<br/><a href="https://doi.org/10.34133/2021/9756945">https://doi.org/10.34133/2021/9756945</a></p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/34368766/">https://pubmed.ncbi.nlm.nih.gov/34368766/</a></p>  |
| 62. | <p>High-quality draft genome sequence of pantanalinema sp. GBBB05, a cyanobacterium from cerrado biome</p> <p>Ferreira, Lucas Salomão de Sousa; Butarelli, Ana Carolina de Araújo; Sousa, Raissa da Costa; Oliveira, Mariene Amorim de; Moraes, Pablo Henrique Gonçalves; Ribeiro, Igor Santana; Sousa, Pedro Felipe Rodrigues; Dall'Agnol, Hivana Melo Barbosa; Lima, Alex Ranieri Jerônimo; Gonçalves, Evonnildo Costa; Sivonen, Kaarina; Fewer, David; Riyuzo, Raquel; Piroupo, Carlos Morais; Silva, Aline Maria da; Setubal, João Carlos; Dall'Agnol, Leonardo Teixeira</p> <p>Front. Ecol. Evol.. 2021 June;9:639852. doi:10.3389/fevo.2021.639852</p> <p><a href="https://repositorio.butantan.gov.br/handle/butantan/3894">https://repositorio.butantan.gov.br/handle/butantan/3894</a></p>               |
| 63. | <p>High-throughput screening and validation of antibodies against synaptic proteins to explore opioid signaling dynamics</p> <p>Mariana Lemos Duarte, Nikita A Trimbake, Achla Gupta, Christine Tumanut, Xiaomin Fan, Catherine Woods, Akila Ram, Ivone Gomes, Erin N Bobeck, Deborah Schechtman, Lakshmi A Devi</p> <p>Communications Biology volume 4, Article number: 238 (2021)</p> <p><a href="https://www.nature.com/articles/s42003-021-01744-8">https://www.nature.com/articles/s42003-021-01744-8</a></p>  |
| 64. | <p>His-Rich Peptides, Gly- and His-Rich Peptides: Functionally Versatile Compounds with Potential Multi-Purpose Applications</p> <p>Luiz GP Nunes, Thais Reichert, M Teresa Machini</p>   |

|     |   |
|-----|---|
|     | International Journal of Peptide Research and Therapeutics volume 27, pages2945–2963 (2021)   |
| 65. | <p>Histidine dipeptides are key regulators of excitation-contraction coupling in cardiac muscle: Evidence from a novel CARNS1 knockout rat model</p> <p>Lívia de Souza Gonçalves, Lucas Peixoto Sales, Tiemi Raquel Saito, Juliane Cruz Campos, Alan Lins Fernandes, José Natali, Leonardo Jensen, Alexandre Arnold, Lisley Ramalho, Luiz Roberto Grassmann Bechara, Marcos Vinicius Esteca, Isis Correa, Diogo Sant'Anna, Alexandre Ceroni, Lisete Compagno Michelinini, Bruno Gualano, Walcy Teodoro, Victor Henrique Carvalho, Bianca Scigliano Vargas, Marisa Helena Gennari Medeiros, Igor Luchini Baptista, Maria Cláudia Irigoyen, Craig Sale, Julio Cesar Batista Ferreira, Guilherme Giannini Artioli</p> <p>Redox Biology Volume 44, August 2021, 102016 <a href="https://doi.org/10.1016/j.redox.2021.102016">https://doi.org/10.1016/j.redox.2021.102016</a></p> <p><a href="https://www.sciencedirect.com/science/article/pii/S2213231721001749">https://www.sciencedirect.com/science/article/pii/S2213231721001749</a></p> |
| 66. | <p>Histidine-based hydrogels via singlet-oxygen photooxidation</p> <p>Michelle da Silva Liberato, Nayara Gabrielle Cavalcante, Abinaya Sindu P, Mônica Josiane Rodrigues-Jesus, Pavel Zelenovskii, Ana Claudia O Carreira, Mauricio S. Baptista, Mari Cleide Sogayar, Luís Carlos Souza Ferreira and Luiz Henrique Catalani</p> <p>id Matter, 2021 <a href="https://doi.org/10.1039/D1SM01023A">https://doi.org/10.1039/D1SM01023A</a></p> <p><a href="https://pubs.rsc.org/en/content/articlelanding/2021/sm/d1sm01023a">https://pubs.rsc.org/en/content/articlelanding/2021/sm/d1sm01023a</a></p>   |
| 67. | <p>Host ADP-ribosylation and the SARS-CoV-2 macrodomain</p> <p>Nicolas C Hoch</p> <p>Biochem Soc Trans. 2021 Aug 27;49(4):1711-1721. doi: 10.1042/BST20201212.</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/34351418/">https://pubmed.ncbi.nlm.nih.gov/34351418/</a></p>   |
| 68. | <p>How does the skin sense sun light? An integrative view of light sensing molecules</p> <p>Leonardo Vinicius Monteiro de Assis, Paulo Newton Tonolli, Maria Nathalia Moraes, Maurício S Baptista, Ana Maria de Lauro Castrucci</p> <p>Journal of Photochemistry and Photobiology C: Photochemistry Reviews Volume 47, June 2021, 100403 <a href="https://doi.org/10.1016/j.jphotochemrev.2021.100403">https://doi.org/10.1016/j.jphotochemrev.2021.100403</a></p> <p><a href="https://www.sciencedirect.com/science/article/pii/S1389556721000022">https://www.sciencedirect.com/science/article/pii/S1389556721000022</a></p>   |
| 69. | <p>HPLC/HR-MS-Based Metabolite Profiling and Chemometrics: A Powerful Approach to Identify Bioactive Compounds from Abarema cochliacarpos</p> <p>Caroline de S. Farias, Martins Dias de Cerqueira, Pio Colepicolo, Leonardo Zambotti-Villela, Luzimar G Fernandez, Paulo R Ribeiro</p> <p>Chemistry &amp; Biodiversity Volume 18, Issue 5 e2100055 <a href="https://doi.org/10.1002/cbdv.202100055">https://doi.org/10.1002/cbdv.202100055</a></p> <p><a href="https://onlinelibrary.wiley.com/doi/full/10.1002/cbdv.202100055">https://onlinelibrary.wiley.com/doi/full/10.1002/cbdv.202100055</a></p>   |
| 70. | <p>HSPB1 influences mitochondrial respiration in ER-stressed beta cells</p> <p>Simon Ngao Mule, Vinícius De Moraes Gomes, Rosangela AM Wailemann, Janaina Macedo da Silva, Livia Rosa-Fernandes, Martin R Larsen, Letícia Labriola, Giuseppe Palmisano</p>  |

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|-----|---|
|     | <p>Biochimica et Biophysica Acta (BBA) - Proteins and Proteomics</p> <p>Volume 1869, Issue 9, September 2021, 140680 <a href="https://doi.org/10.1016/j.bbapap.2021.140680">https://doi.org/10.1016/j.bbapap.2021.140680</a></p> <p><a href="https://www.sciencedirect.com/science/article/pii/S1570963921000868">https://www.sciencedirect.com/science/article/pii/S1570963921000868</a></p>   |
| 71. | <p>HSPB1 Is Essential for Inducing Resistance to Proteotoxic Stress in Beta-Cells</p> <p>Vinícius M Gomes, Rosângela AM Wailemann, Gabriel S Arini, Talita C Oliveira, Daria RQ Almeida, Ancély F Dos Santos, Leticia F Terra, Stephan Lortz, Leticia Labriola</p> <p>Cells 2021, 10(9), 2178; <a href="https://doi.org/10.3390/cells10092178">https://doi.org/10.3390/cells10092178</a></p> <p><a href="https://www.mdpi.com/2073-4409/10/9/2178">https://www.mdpi.com/2073-4409/10/9/2178</a></p>   |
| 72. | <p>Hyperactivation of P2X7 receptors as a culprit of COVID-19 neuropathology</p> <p>Ribeiro DE, Oliveira-Giacomelli Á, Glaser T, Arnaud-Sampaio VF, Andrejew R, Dieckmann L, Baranova J, Lameu C, Ratajczak MZ, Ulrich H.</p> <p>Molecular Psychiatry volume 26, pages1044–1059 (2021)</p> <p><a href="https://www.nature.com/articles/s41380-020-00965-3">https://www.nature.com/articles/s41380-020-00965-3</a></p>   |
| 73. | <p>Identification of a targetable KRAS-mutant epithelial population in non-small cell lung cancer</p> <p>Giorgia Maroni, Mahmoud A Bassal, Indira Krishnan, Chee Wai Fhu, Virginia Savova, Rapolas Zilionis, Valerie A Maymi, Nicole Pandell, Eva Csizmadia, Junyan Zhang, Barbara Storti, Julio Castaño, Riccardo Panella, Jia Li, Corinne E Gustafson, Sam Fox, Rachel D Levy, Claire V Meyerovitz, Peter J Tramontozzi, Kimberly Vermilya, Assunta De Rienzo, Stefania Crucitta, Daniela S Bassères, Marla Weetall, Art Branstrom, Alessandra Giorgetti, Raffaele Ciampi, Marzia Del Re, Romano Danesi, Ranieri Bizzarri, Henry Yang, Olivier Kocher, Allon M Klein, Robert S Welner, Raphael Bueno, Maria Cristina Magli, John G Clohessy, Azhar Ali, Daniel G Tenen, Elena Levantini</p> <p>Commun Biol. 2021 Apr 14;4(1):370. doi: 10.1038/s42003-021-01897-6.</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/33854168/">https://pubmed.ncbi.nlm.nih.gov/33854168/</a></p> |
| 74. | <p>Identification of bioactive metabolites from corn silk extracts by a combination of metabolite profiling, univariate statistical analysis and chemometrics</p> <p>Natan RS da Hora, Lucia F Santana, Victor Diogenes A da Silva, Silvia L Costa, Leonardo Zambotti-Villela, Pio Colepicolo, Caline G Ferraz, Paulo R Ribeiro</p> <p>Food Chemistry Volume 365, 15 December 2021, 130479</p> <p><a href="https://doi.org/10.1016/j.foodchem.2021.130479">https://doi.org/10.1016/j.foodchem.2021.130479</a></p> <p><a href="https://www.sciencedirect.com/science/article/pii/S0308814621014850">https://www.sciencedirect.com/science/article/pii/S0308814621014850</a></p>  |
| 75. | <p>Impact of Reck expression and promoter activity in neuronal in vitro differentiation</p> <p>Marina Trombetta-Lima, Thais Assis-Ribas, Ricardo C Cintra, Joana D Campeiro, Juliano R Guerreiro, Sheila M B Winnischofer, Isis C C Nascimento, Henning Ulrich, Mirian A F Hayashi, Mari C Sogayar</p> <p>Mol Biol Rep. 2021 Feb;48(2):1985-1994. doi: 10.1007/s11033-021-06175-6. Epub 2021 Feb 22.</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/33619662/">https://pubmed.ncbi.nlm.nih.gov/33619662/</a></p>   |
| 76. | <p>Implications of SARS-Cov-2 infection on eNOS and iNOS activity: Consequences for the respiratory and</p>   |

|     |  |
|-----|--|
|     | <p>vascular systems</p> <p>Lara Guimarães, Caio VT Rossini, Claudiana Lameu</p> <p>Nitric Oxide Volumes 111–112, 1 June 2021, Pages 64-71 <a href="https://doi.org/10.1016/j.niox.2021.04.003">https://doi.org/10.1016/j.niox.2021.04.003</a></p> <p><a href="https://www.sciencedirect.com/science/article/pii/S1089860321000380">https://www.sciencedirect.com/science/article/pii/S1089860321000380</a></p>   |
| 77. | <p>In Vitro Evaluation of the Photoprotective Potential of Quinolinic Alkaloids Isolated from the Antarctic Marine Fungus <i>Penicillium echinulatum</i> for Topical Use</p> <p>Thaiz Rodrigues Teixeira, Karen Cristina Rangel, Renata Spagolla Napoleão Tavares, Camila Martins Kawakami, Gustavo Souza Dos Santos, Silvy Stuchi Maria-Engler, Pio Colepicolo, Lorena Rigo Gaspar, Hosana Maria Deboni</p> <p>Marine Biotechnology volume 23, pages357–372 (2021) <a href="https://doi.org/10.1007/s10126-021-10030-x">https://doi.org/10.1007/s10126-021-10030-x</a></p> <p><a href="https://link.springer.com/article/10.1007/s10126-021-10030-x">https://link.springer.com/article/10.1007/s10126-021-10030-x</a></p> |
| 78. | <p>Increased glycolysis is an early consequence of palmitate lipotoxicity mediated by redox signaling.</p> <p>Pamela A. Kakimoto, Julian David C.Serna, Vitor de Miranda Ramos, Antonio Zorzano, Alicia J.Kowaltowski.</p> <p>Redox Biology, Volume 45, September 2021. <a href="https://doi.org/10.1016/j.redox.2021.102026">https://doi.org/10.1016/j.redox.2021.102026</a></p> <p><a href="https://www.sciencedirect.com/science/article/pii/S2213231721001841">https://www.sciencedirect.com/science/article/pii/S2213231721001841</a></p>   |
| 79. | <p>Increased H<sub>2</sub>O<sub>2</sub> levels and p53 stabilization lead to mitochondrial dysfunction in XPC-deficient cells</p> <p>TS Freire, MP Mori, JNFA Miranda, LYM Muta, FT Machado, NC Moreno, NC Souza-Pinto</p> <p>Carcinogenesis, Volume 42, Issue 11, November 2021, Pages 1380–1389,<br/><a href="https://doi.org/10.1093/carcin/bgab079">https://doi.org/10.1093/carcin/bgab079</a></p> <p><a href="https://academic.oup.com/carcin/article/42/11/1380/6358322?login=true">https://academic.oup.com/carcin/article/42/11/1380/6358322?login=true</a></p>  |
| 80. | <p>Inhibition of Severe Acute Respiratory Syndrome Coronavirus 2 Replication by Hypertonic Saline Solution in Lung and Kidney Epithelial Cells.</p> <p>Machado RRG, Glaser T, Araujo DB, Petiz LL, Oliveira DBL, Durigon GS, Leal AL, Pinho JRR, Ferreira LCS, Ulrich H, Durigon EL, Guzzo CR.</p> <p>ACS Pharmacol Transl Sci. 2021 Sep 3;4(5):1514-1527. doi: 10.1021/acsptsci.1c00080</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/34651104/">https://pubmed.ncbi.nlm.nih.gov/34651104/</a></p>  |
| 81. | <p>Interaction With the Extracellular Matrix Triggers Calcium Signaling in <i>Trypanosoma cruzi</i> Prior to Cell Invasion</p> <p>Nubia Carolina Manchola Varón, Guilherme Rodrigo RM dos Santos, Walter Colli, Maria Julia M Alves</p> <p>Front Cell Infect Microbiol. 2021; 11: 731372 doi: 10.3389/fcimb.2021.731372</p> <p><a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8521164/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8521164/</a></p>   |
| 82. | <p>Interactions of Truncated Menaquinones in Lipid Monolayers and Bilayers</p> <p>Cameron Van Cleave, Jordan T Koehn, Caroline Simões Pereira, Allison A Haase, Benjamin J Peters, Seth W Croslow, Kyle G McLaughlin, Katarina R Werst, Audra L Goach, Dean C Crick, Guilherme Menegon</p>   |

|     |   |
|-----|---|
|     | <p>Arantes, Debbie C Crans</p> <p>International journal of molecular sciences 2021, 22(18), 9755; <a href="https://doi.org/10.3390/ijms22189755">https://doi.org/10.3390/ijms22189755</a></p> <p><a href="https://www.mdpi.com/1422-0067/22/18/9755">https://www.mdpi.com/1422-0067/22/18/9755</a></p>  |
| 83. | <p>Kidney organoids generated from erythroid progenitors cells of patients with autosomal dominant polycystic kidney disease</p> <p>Roberta Facioli, Fernando Henrique Lojudice, Ana Carolina Anauate, Edgar Maquigussa, José Luiz Nishiura, Ita Pfeferman Heilberg, Mari Cleide Sogayar, Mirian Aparecida Boim</p> <p>PloS One. 2021 Aug 2;16(8):e0252156. doi: 10.1371/journal.pone.0252156.</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/34339420/">https://pubmed.ncbi.nlm.nih.gov/34339420/</a></p>   |
| 84. | <p>Kinetics of Muscle Carnosine Decay after <math>\beta</math>-Alanine Supplementation: A 16-wk Washout Study</p> <p>Guilherme Carvalho Yamaguchi, MARIANE LEICHSENDRING SCHULZ, JOSÉ NATALI, JONATAS EDUARDO CESAR, LUIZ AUGUSTO RIANI, LÍVIA DE SOUZA GONÇALVES, GABRIELLA BERWIG MÖLLER, CRAIG SALE, MARISA HELENA GENNARI DE MEDEIROS, BRUNO GUALANO, GUILHERME GIANNINI ARTIOLI</p> <p>Med Sci Sports Exerc. 2021 May; 53(5): 1079–1088. 10.1249/MSS.0000000000002559</p> <p><a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8048732/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8048732/</a></p> |
| 85. | <p>Land Use and Management Effects on Sustainable Sugarcane-Derived Bioenergy</p> <p>Maurício Roberto Cherubin, João Luís Nunes Carvalho, Carlos Eduardo Pellegrino Cerri, Luiz Augusto Horta Nogueira, Glaucia Mendes Souza, Heitor Cantarella</p> <p>Land 2021, 10(1), 72; <a href="https://doi.org/10.3390/land10010072">https://doi.org/10.3390/land10010072</a></p> <p><a href="https://www.mdpi.com/2073-445X/10/1/72">https://www.mdpi.com/2073-445X/10/1/72</a></p>   |
| 86. | <p>Lipid and fatty acid metabolism in trypanosomatids</p> <p>Giovana Parreira de Aquino, Marco Antonio Mendes Gomes, Roberto Köpke Salinas, Maria Fernanda Laranjeira-Silva</p> <p>Microbial Cell, Vol. 8, No. 11, pp. 262 - 275; doi: 10.15698/mic2021.11.764</p> <p><a href="http://microbialcell.com/researcharticles/2021a-parreira-de-aquino-microbial-cell/">http://microbialcell.com/researcharticles/2021a-parreira-de-aquino-microbial-cell/</a></p>   |
| 87. | <p>Lipid biomarkers reveal the trophic plasticity of octocorals along a depth gradient</p> <p>Chloé Alexandra Pupier, Miguel Mies, Maoz Fine, Ronaldo Bastos Francini-Filho, Frederico Pereira Brandini, Leonardo Zambotti-Villela, Pio Colepicolo, Christine Ferrier-Pagès</p> <p>Limnology and Oceanography Volume 66, Issue 5 p. 2078-2087 <a href="https://doi.org/10.1002/lno.11746">https://doi.org/10.1002/lno.11746</a></p> <p><a href="https://aslopubs.onlinelibrary.wiley.com/doi/full/10.1002/lno.11746">https://aslopubs.onlinelibrary.wiley.com/doi/full/10.1002/lno.11746</a></p>                |
| 88. | <p>Liver lipidome signature and metabolic pathways in nonalcoholic fatty liver disease induced by a high-sugar diet</p> <p>Daiane T Oliveira, Adriano B Chaves-Filho, Marcos Y Yoshinaga, Nívia Carolina N Paiva, Cláudia M Carneiro, Sayuri Miyamoto, William T Festuccia, Renata Guerra-Sá</p>  |

|     |   |
|-----|---|
|     | <p>The Journal of Nutritional Biochemistry Volume 87, January 2021, 108519<br/> <a href="https://doi.org/10.1016/j.jnutbio.2020.108519">https://doi.org/10.1016/j.jnutbio.2020.108519</a></p> <p><a href="https://www.sciencedirect.com/science/article/pii/S0955286320305519">https://www.sciencedirect.com/science/article/pii/S0955286320305519</a></p>  |
| 89. | <p>Loss of mTORC2 Activity in Neutrophils Impairs Fusion of Granules and Affects Cellular Metabolism Favoring Increased Bacterial Burden in Sepsis</p> <p>Cristiane Naffah de Souza Breda, Leandro Carvalho Dantas Breda, Larissa Anastácio da Costa Carvalho, Mariane Tami Amano, Fernanda Fernandes Terra, Reinaldo Correia Silva, Matheus Garcia Fragas, Maria Fernanda Forni, Monique Thaís Costa Fonseca, Gabriela Venturini, Amanda Campelo Melo Feitosa, Bruno Ghirotto, Mario Costa Cruz, Flávia Franco Cunha, Aline Ignacio, Marcela Latância, Angela Castoldi, Vinícius Andrade-Oliveira, Eloisa Martins da Silva, Meire Ioshie Hiyane, Alexandre da Costa Pereira, William Festuccia, Flávia Carla Meotti, Niels Olsen Saraiva Câmara</p> <p>J Immunol July 15, 2021, 207 (2) 626-639; DOI: <a href="https://doi.org/10.4049/jimmunol.2000573">https://doi.org/10.4049/jimmunol.2000573</a></p> <p><a href="https://www.jimmunol.org/content/207/2/626.abstract">https://www.jimmunol.org/content/207/2/626.abstract</a></p> |
| 90. | <p>Low RECK Expression Is Part of the Cervical Carcinogenesis Mechanisms</p> <p>Suellen Herbster, Marina Trombetta-Lima, Paulo Thiago de Souza-Santos, Andressa Paladino, Caio Raony Farina Silveira, Mari Cleide Sogayar, Luisa Lina Villa, Ana Paula Lepique, and Enrique Boccardo.</p> <p>Cancers (Basel). 2021 May 6;13(9):2217. doi: 10.3390/cancers13092217</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/34339420/">https://pubmed.ncbi.nlm.nih.gov/34339420/</a></p>  |
| 91. | <p>I-Tryptophan Interactions with the Horseradish Peroxidase-Catalyzed Generation of Triplet Acetone</p> <p>Luiz D Ramos, Fernanda M Prado, Cassius V Stevani, Paolo Di Mascio, Etelvino JH Bechara</p> <p>Photochemistry and Photobiology Volume 97, Issue 2 p. 327-334 <a href="https://doi.org/10.1111/php.13363">https://doi.org/10.1111/php.13363</a></p> <p><a href="https://onlinelibrary.wiley.com/doi/full/10.1111/php.13363">https://onlinelibrary.wiley.com/doi/full/10.1111/php.13363</a></p>   |
| 92. | <p>Many birds with one stone: targeting the (p) ppGpp signaling pathway of bacteria to improve antimicrobial therapy</p> <p>André A Pulschen, Arthur ZN Fernandes, André F Cunha, Diego E Sastre, Beatriz E Matsuguma, Frederico J Gueiros-Filho</p> <p>Biophysical Reviews (2021) Published: 12 November 2021</p> <p><a href="https://link.springer.com/article/10.1007/s12551-021-00895-6">https://link.springer.com/article/10.1007/s12551-021-00895-6</a></p>   |
| 93. | <p>Melanin, lipofuscin and the effects of visible light in the skin</p> <p>Paulo Newton Tonolli, Mauricio S Baptista, Orlando Chiarelli-Neto</p> <p>Journal of Photochemistry and Photobiology Volume 7, September 2021, 100044</p> <p><a href="https://www.sciencedirect.com/science/article/pii/S2666469021000294">https://www.sciencedirect.com/science/article/pii/S2666469021000294</a></p>  |
| 94. | <p>Mesenchymal stem cell-glioblastoma interactions mediated via kinin receptors unveiled by cytometry</p> <p>Pillat MM, Oliveira-Giacomelli Á, das Neves Oliveira M, Andrejew R, Turrini N, Baranova J, Lah Turnšek T, Ulrich H</p>   |



|     |   |
|-----|---|
|     | <p>Cytometry A. 2021 Feb;99(2):152-163. doi: 10.1002/cyto.a.24299.</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/33438373/">https://pubmed.ncbi.nlm.nih.gov/33438373/</a></p>   |
| 95. | <p>Metacyclogenesis defects and gene expression hallmarks of histone deacetylase 4-deficient</p> <p>Picchi-Constante, G.F.A., Guerra-Slompo, E.P., Tahira, A.C., Alcantara, M.V., Amaral, M.S., Ferreira, A.S., Batista, M., Batista, C.M., Goldenberg, S., Verjovski-Almeida, S., Zanchin, N.I.T.</p> <p>Trypanosoma cruzi cells. Sci Rep 11, 21671 (2021). <a href="https://doi.org/10.1038/s41598-021-01080-1">https://doi.org/10.1038/s41598-021-01080-1</a></p> <p><a href="https://www.nature.com/articles/s41598-021-01080-1">https://www.nature.com/articles/s41598-021-01080-1</a></p>   |
| 96. | <p>Metagenome-assembled genomes: concepts, analogies, and challenges</p> <p>João C Setubal</p> <p>Biophysical Reviews (2021)</p> <p><a href="https://link.springer.com/article/10.1007/s12551-021-00865-y">https://link.springer.com/article/10.1007/s12551-021-00865-y</a></p>   |
| 97. | <p>Methylene blue-mediated antimicrobial photodynamic therapy can be a novel non-antibiotic platform for bovine digital dermatites</p> <p>Fábio P Sellera, Bruna S Barbosa, Ronaldo G Gargano, Vívian FP Ríspoli, Caetano P Sabino, Rudiger D Ollhoff, Maurício S Baptista, Martha S Ribeiro, Lilian RM de Sá, Fabio C Pogliani</p> <p>Photodiagnosis and Photodynamic Therapy Volume 34, June 2021, 102274</p> <p><a href="https://doi.org/10.1016/j.pdpdt.2021.102274">https://doi.org/10.1016/j.pdpdt.2021.102274</a></p> <p><a href="https://www.sciencedirect.com/science/article/pii/S1572100021001009">https://www.sciencedirect.com/science/article/pii/S1572100021001009</a></p> |
| 98. | <p>Methylene blue-mediated Photodynamic Therapy in human retinoblastoma cell lines</p> <p>RF Turchiello, CS Oliveira, AU Fernandes, SL Gómez, MS Baptista</p> <p>Journal of Photochemistry and Photobiology B: Biology Volume 222, September 2021, 112260</p> <p><a href="https://www.sciencedirect.com/science/article/pii/S1011134421001391">https://www.sciencedirect.com/science/article/pii/S1011134421001391</a></p>  |
| 99. | <p>Microbiomes of Field-Grown Maize and Soybean in Southeastern and Central Brazil Inferred by High-Throughput 16S and Internal Transcribed Spacer Amplicon Sequencing</p> <p>Maike Rossmann, Andrew Maltez Thomas, Suzana Sato Guima, Layla Farage Martins, Patrik Inderbitzin, Victoria Knight-Connoni, Aline Maria da Silva, João C Setubal</p> <p>Microbiol Resour Announc.2021 Aug 5; 10(31):e0052821. doi: 10.1128/MRA.00528-21.</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/34351231/">https://pubmed.ncbi.nlm.nih.gov/34351231/</a></p>   |
| 100 | <p>Mitochondrial K<sup>+</sup> Transport: Modulation and Functional Consequences.</p> <p>Pereira O Jr, Kowaltowski AJ.</p> <p>Molecules. 2021 May 14;26(10):2935. doi: 10.3390/molecules26102935.</p> <p><a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8156104/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8156104/</a></p>  |
| 101 | <p>Model Membrane Interactions and Biological Activity of a Naphthalimide-Containing BP100</p> <p>Gustavo Penteado Battesini Carretero, Greice Kelle Viegas Saraiva, Magali Aparecida Rodrigues, Sumika</p>   |

|     |  |
|-----|--|
|     | <p>Kiyota, Marcelo Porto Bemquerer, Hernan Chaimovich, Iolanda Midea Cuccovia</p> <p>Journal reference: Biomolecules 2021, 11, 542 DOI: 10.3390/biom11040542</p> <p><a href="https://www.preprints.org/manuscript/202102.0098/v1">https://www.preprints.org/manuscript/202102.0098/v1</a></p>  |
| 102 | <p>Modifying the resolving cysteine affects the structure and hydrogen peroxide reactivity of peroxiredoxin 2</p> <p>Alexander V Peskin, Flavia C Meotti, Kelsey M Kean, Christoph Göbl, Albert Souza Peixoto, Paul E Pace, Christopher R Horne, Sarah G Heath, Jennifer M Crowther, Renwick CJ Dobson, P Andrew Karplus, Christine C Winterbourn</p> <p>Journal of Biological Chemistry VOLUME 296, 100494, JANUARY 2021<br/>DOI:<a href="https://doi.org/10.1016/j.jbc.2021.100494">https://doi.org/10.1016/j.jbc.2021.100494</a></p> <p><a href="https://www.jbc.org/article/S0021-9258(21)00269-6/fulltext">https://www.jbc.org/article/S0021-9258(21)00269-6/fulltext</a></p> |
| 103 | <p>Modulation of SCD1 activity in hepatocyte cell lines: evaluation of genomic stability and proliferation.</p> <p>Arthur Cassio de Lima Luna, Fabio Luis Forti</p> <p>Mol Cell Biochem. 2021 Sep;476(9):3393-3405. doi: 10.1007/s11010-021-04167-5.</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/33954906/">https://pubmed.ncbi.nlm.nih.gov/33954906/</a></p>  |
| 104 | <p>Molecular insights on CALX-CBD12 interdomain dynamics from MD simulations, RDCs, and SAXS</p> <p>Maximilia F de Souza Degenhardt, Phelipe AM Vitale, Layara A Abiko, Martin Zacharias, Michael Sattler, Cristiano LP Oliveira, Roberto K Salinas</p> <p>Biophysical Journal Volume 120, Issue 17, 7 September 2021, Pages 3664-3675<br/><a href="https://doi.org/10.1016/j.bpj.2021.07.022">https://doi.org/10.1016/j.bpj.2021.07.022</a></p> <p><a href="https://www.sciencedirect.com/science/article/abs/pii/S0006349521006081">https://www.sciencedirect.com/science/article/abs/pii/S0006349521006081</a></p>  |
| 105 | <p>Molecular organization in hydroperoxidized POPC bilayers</p> <p>Helena Junqueira, André P Schroder, Fabrice Thalmann, Andrey Klymchenko, Yves Mély, Mauricio S Baptista, Carlos M Marques</p> <p>Biochimica et Biophysica Acta (BBA) – Biomembranes Volume 1863, Issue 10, 1 October 2021, 183659</p> <p><a href="https://www.sciencedirect.com/science/article/pii/S0005273621001097">https://www.sciencedirect.com/science/article/pii/S0005273621001097</a></p>  |
| 106 | <p>Nanophotosensitizers for cancer therapy: a promising technology?</p> <p>Ancély Ferreira dos Santos, Gabriel Santos Arini, Daria Raquel Queiroz de Almeida, Leticia Labriola</p> <p>Journal of Physics: Materials, Volume 4, Number 3</p> <p><a href="https://iopscience.iop.org/article/10.1088/2515-7639/abf7dd/meta">https://iopscience.iop.org/article/10.1088/2515-7639/abf7dd/meta</a></p>   |
| 107 | <p>Naphthalimide-Containing BP100 Leads to Higher Model Membranes Interactions and Antimicrobial Activity</p> <p>Gustavo Penteado Battesini Carretero, Greice Kelle Viegas Saraiva, Magali Aparecida Rodrigues, Sumika Kiyota, Marcelo Porto Bemquerer, Hernan Chaimovich, Iolanda Midea Cuccovia</p>  |

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|-----|---|
|     | Journals Biomolecules Volume 11 Issue 4 10.3390/biom11040542<br><a href="https://www.mdpi.com/2218-273X/11/4/542">https://www.mdpi.com/2218-273X/11/4/542</a>   |
| 108 | NEK5 interacts with LonP1 and its kinase activity is essential for the regulation of mitochondrial functions and mtDNA maintenance<br><br>Camila de Castro Ferezin, Fernanda Luisa Basei, Talita D Melo-Hanchuk, Ana Luisa de Oliveira, Andressa Peres de Oliveira, Mateus P Mori, Nadja C de Souza-Pinto, Jörg Kobarg<br><br>FEBS Open BioVolume 11, Issue 3 p. 546-563 <a href="https://doi.org/10.1002/2211-5463.13108">https://doi.org/10.1002/2211-5463.13108</a><br><br><a href="https://febs.onlinelibrary.wiley.com/doi/full/10.1002/2211-5463.13108">https://febs.onlinelibrary.wiley.com/doi/full/10.1002/2211-5463.13108</a> |
| 109 | Niacin Increases Atherogenic Proteins in High-Density Lipoprotein of Statin-Treated Subjects<br><br>Graziella E Ronsein, Tomas Vaisar, W Sean Davidson, Karin E Bornfeldt, Jeffrey L Probstfield, Kevin D O'Brien, Xue-Qiao Zhao, Jay W Heinecke<br><br>Clinical Trial Arterioscler Thromb Vasc Biol. 2021 Aug;41(8):2330-2341. doi: 10.1161/ATVBAHA.121.316278.<br><br><a href="https://pubmed.ncbi.nlm.nih.gov/34134520/">https://pubmed.ncbi.nlm.nih.gov/34134520/</a>   |
| 110 | Nitrogen fertilization and stress factors drive shifts in microbial diversity in soils and plants<br><br>Miguel J Beltran-Garcia, América Martínez-Rodríguez, Ileana Olmos-Arriaga, Benjamín Valdes-Salas, Paolo Di Mascio, James F White<br><br>Symbiosis volume 84, pages379–390 (2021) <a href="https://doi.org/10.1007/s13199-021-00787-z">https://doi.org/10.1007/s13199-021-00787-z</a><br><br><a href="https://link.springer.com/article/10.1007/s13199-021-00787-z">https://link.springer.com/article/10.1007/s13199-021-00787-z</a>  |
| 111 | Noc Corrals Migration of FtsZ Protofilaments during Cytokinesis in Bacillus subtilis<br><br>Yuanchen Yu, Jinsheng Zhou, Frederico J Gueiros-Filho, Daniel B Kearns, Stephen C Jacobson<br><br>mBio 2021 Feb 2;12(1):e02964-20. doi: 10.1128/mBio.02964-20.<br><br><a href="https://pubmed.ncbi.nlm.nih.gov/33531398/">https://pubmed.ncbi.nlm.nih.gov/33531398/</a>   |
| 112 | Novel virocell metabolic potential revealed in agricultural soils by virus-enriched soil metagenome analysis.<br><br>Lucas P P Braga, Felipe H Coutinho, Deyvid E Amgarten, Witold Kot, Lars Hansen, João C Setubal, Laurent Philippot<br><br>Environ Microbiol Rep. 2021 Jun;13(3):348-354. doi: 10.1111/1758-2229.12939<br><br><a href="https://pubmed.ncbi.nlm.nih.gov/34018688/">https://pubmed.ncbi.nlm.nih.gov/34018688/</a>  |
| 113 | Nucleophosmin Protein Dephosphorylation by DUSP3 Is a Fine-Tuning Regulator of p53 Signaling to Maintain Genomic Stability.<br><br>Lilian C Russo, Pault Y M Ferruzo , Fabio L Forti<br><br>Front Cell Dev Biol. 2021 Mar 11;9:624933. doi: 10.3389/fcell.2021.624933. eCollection 2021<br><br><a href="https://pubmed.ncbi.nlm.nih.gov/33777934/">https://pubmed.ncbi.nlm.nih.gov/33777934/</a>  |

|     |  |
|-----|--|
| 114 | <p>Odor coding in the mammalian olfactory epithelium.</p> <p>Smija M Kurian, Rafaella G Naressi, Diogo Manoel, Ann-Sophie Barwich, Bettina Malnic, Luis R Saraiva</p> <p>Cell Tissue Res. 2021 Jan;383(1):445-456. doi: 10.1007/s00441-020-03327-1.</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/33409650/">https://pubmed.ncbi.nlm.nih.gov/33409650/</a></p>   |
| 115 | <p>Olfactory Dysfunction in Frontline Health Care Professionals During COVID-19 Pandemic in Brazil.</p> <p>Mariana Ferreira Sbrana, Marco Aurélio Fornazieri, Alexandre Bruni-Cardoso, Vivian I. Avelino-Silva, Deborah Schechtman, Richard Louis Voegels, Bettina Malnic, Isaias Glezer, and Fabio de Rezende Pinna</p> <p>Front Physiol. 2021 Mar 9;12:622987. doi: 10.3389/fphys.2021.622987. eCollection 2021</p> <p><a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7985267/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7985267/</a></p>   |
| 116 | <p>Optical control of purinergic signaling</p> <p>Wang T, Ulrich H, Semyanov A, Illes P, Tang Y.</p> <p>Purinergic Signal. 2021 Sep;17(3):385-392. doi: 10.1007/s11302-021-09799-2. Epub 2021 Jun 22.</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/34156578/">https://pubmed.ncbi.nlm.nih.gov/34156578/</a></p>   |
| 117 | <p>Oxidative Modification of Proteins: From Damage to Catalysis, Signaling, and Beyond</p> <p>Marilene Demasi, Ohara Augusto, Etelvino JH Bechara, Renata N Bicev, Fernanda M Cerqueira, Fernanda M da Cunha, Ana Denicola, Fernando Gomes, Sayuri Miyamoto, Luis ES Netto, Lía M Randall, Cassius V Stevani, Leonor Thomson</p> <p>Antioxidants &amp; Redox Signaling, Vol. 35, No. 12 <a href="https://doi.org/10.1089/ars.2020.8176">https://doi.org/10.1089/ars.2020.8176</a></p> <p><a href="https://www.liebertpub.com/doi/abs/10.1089/ars.2020.8176">https://www.liebertpub.com/doi/abs/10.1089/ars.2020.8176</a></p> |
| 118 | <p>P2Y14 Receptor as a Target for Neutrophilia Attenuation in Severe COVID-19 Cases: From Hematopoietic Stem Cell Recruitment and Chemotaxis to Thrombo-inflammation</p> <p>Lintzmaier Petiz L, Glaser T, Scharfstein J, Ratajczak MZ, Ulrich H.</p> <p>Stem Cell Rev Rep. 2021 Feb;17(1):241-252. doi: 10.1007/s12015-021-10129-7</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/33575962/">https://pubmed.ncbi.nlm.nih.gov/33575962/</a></p>  |
| 119 | <p>P2Y2 receptor activation promotes esophageal cancer cells proliferation via ERK1/2 pathway</p> <p>Zaparte A, Cappellari AR, Brandão CA, de Souza JB, Borges TJ, Kist LW, Bogo MR, Zerbini LF, Ribeiro Pinto LF, Glaser T, Gonçalves MCB, Naaldijk Y, Ulrich H, Morrone FB.</p> <p>Eur J Pharmacol. 2021 Jan 15;891:173687. doi: 10.1016/j.ejphar.2020.173687.</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/33130276/">https://pubmed.ncbi.nlm.nih.gov/33130276/</a></p>  |
| 120 | <p>Performance of Cosmetic Ingredients Evaluated by Their Membrane Protection Efficiency</p> <p>Daniela Rodrigues Silva, Maidileyvis Castro Cabello, Divinomar Severino, Mauricio S Baptista</p> <p>Journal of Cosmetics, Dermatological Sciences and Applications &gt; Vol.11 No.3, September 2021<br/>10.4236/jcdsa.2021.113016</p>  |

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|     | <p><a href="https://www.scirp.org/journal/paperinformation.aspx?paperid=110594">https://www.scirp.org/journal/paperinformation.aspx?paperid=110594</a></p>  |
| 121 | <p>Peroxiredoxin AhpC1 protects <i>Pseudomonas aeruginosa</i> against the inflammatory oxidative burst and confers virulence</p> <p>Leonardo Silva Rocha, Beatriz Pereira da Silva, Thiago ML Correia, Railmara Pereira da Silva, Diogo de Abreu Meireles, Rafael Pereira, Luis Eduardo Soares Netto, Flavia Carla Meotti, Raphael Ferreira Queiroz</p> <p>Redox Biology Volume 46, October 2021, 102075 <a href="https://doi.org/10.1016/j.redox.2021.102075">https://doi.org/10.1016/j.redox.2021.102075</a></p> <p><a href="https://www.sciencedirect.com/science/article/pii/S2213231721002342">https://www.sciencedirect.com/science/article/pii/S2213231721002342</a></p> |
| 122 | <p>Pharmacological reversal of synaptic and network pathology in human MECP2-KO neurons and cortical organoids</p> <p>Trujillo CA, Adams JW, Negraes PD, Carromeu C, Tejwani L, Acab A, Tsuda B, Thomas CA, Sodhi N, Fichter KM, Romero S, Zanella F, Sejnowski TJ, Ulrich H, Muotri AR.</p> <p>EMBO Mol Med. 2021 Jan 11;13(1):e12523. doi: 10.15252/emmm.202012523</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/33501759/">https://pubmed.ncbi.nlm.nih.gov/33501759/</a></p>   |
| 123 | <p>Phenotypic heterogeneity in amyotrophic lateral sclerosis type 8 and modifying mechanisms of neurodegeneration</p> <p>Danyllo Oliveira, Sergio Verjovski-Almeida, Mayana Zatz</p> <p>Neural Regeneration Research Year : 2021 Volume : 16 Issue : 9 Page : 1776-1778 DOI: 10.4103/1673-5374.303030</p> <p><a href="https://www.nrronline.org/article.asp?issn=1673-5374;year=2021;volume=16;issue=9;spage=1776;epage=1778;aulast=Oliveira">https://www.nrronline.org/article.asp?issn=1673-5374;year=2021;volume=16;issue=9;spage=1776;epage=1778;aulast=Oliveira</a></p>  |
| 124 | <p>Photosensitization Reactions of Biomolecules: Definition, Targets and Mechanisms</p> <p>Maurício S Baptista, Jean Cadet, Alexander Greer, Andrés H Thomas</p> <p>Photochemistry and Photobiology First published: 16 June 2021 <a href="https://doi.org/10.1111/php.13470">https://doi.org/10.1111/php.13470</a></p> <p><a href="https://onlinelibrary.wiley.com/doi/full/10.1111/php.13470">https://onlinelibrary.wiley.com/doi/full/10.1111/php.13470</a></p>  |
| 125 | <p>Plasma lipidome profiling of newborns with antenatal exposure to Zika vírus</p> <p>Nieli Rodrigues da Costa Faria, Adriano Britto Chaves-Filho, Luiz Carlos Junior Alcantara, Isadora Cristina de Siqueira, Juan Ignacio Calcagno, Sayuri Miyamoto, Ana Maria Bispo de Filippis, Marcos Yukio Yoshinaga</p> <p>PLoS neglected tropical diseases Published: April 30, 2021 <a href="https://doi.org/10.1371/journal.pntd.0009388">https://doi.org/10.1371/journal.pntd.0009388</a></p> <p><a href="https://journals.plos.org/plosntds/article?id=10.1371/journal.pntd.0009388">https://journals.plos.org/plosntds/article?id=10.1371/journal.pntd.0009388</a></p>             |
| 126 | <p>Postprandial plasma lipidome responses to a high-fat meal among healthy women</p> <p>Marcos Yukio Yoshinaga, Bruna Jardim Quintanilha, Adriano Britto Chaves-Filho, Sayuri Miyamoto, Geni Rodrigues Sampaio, Marcelo Macedo Rogero</p> <p>The Journal of Nutritional Biochemistry 97, 108809 <a href="https://doi.org/10.1016/j.jnutbio.2021.108809">https://doi.org/10.1016/j.jnutbio.2021.108809</a></p> <p><a href="https://www.sciencedirect.com/science/article/pii/S0955286321002291">https://www.sciencedirect.com/science/article/pii/S0955286321002291</a></p>  |

|     |  |
|-----|--|
| 127 | <p>PPAR<math>\gamma</math>-induced upregulation of subcutaneous fat adiponectin secretion, glyceroneogenesis and BCAA oxidation requires mTORC1 activity</p> <p>Maynara L Andrade, Gustavo R Gilio, Luiz A Perandini, Albert S Peixoto, Mayara F Moreno, Érique Castro, Tiago E Oliveira, Thayna S Vieira, Milene Ortiz-Silva, Caroline A Thomazelli, Adriano B Chaves-Filho, Thiago Belchior, Patricia Chimin, Juliana Magdalon, Rachael Ivison, Deepti Pant, Linus Tsai, Marcos Y Yoshinaga, Sayuri Miyamoto, William T Festuccia</p> <p>Biochimica et Biophysica Acta (BBA) - Molecular and Cell Biology of Lipids Volume 1866, Issue 8, August 2021, 158967 <a href="https://doi.org/10.1016/j.bbali.2021.158967">https://doi.org/10.1016/j.bbali.2021.158967</a></p> <p><a href="https://www.sciencedirect.com/science/article/pii/S1388198121000950">https://www.sciencedirect.com/science/article/pii/S1388198121000950</a></p> |
| 128 | <p>Probiotic attenuation of murine allergic airway inflammation is host strain-specific and correlated with the gut microbiota.</p> <p>Mateus B Casaro, Andrew M Thomas, Eduardo Mendes, Claudio Fukumori, Willian R Ribeiro, Fernando A Oliveira, Amanda R Crisma, Gilson M Murata, Bruna Bizzarro, Anderson Sá-Nunes, Joao C Setubal, Marcia P A Mayer, Flaviano S Martins, Angélica T Vieira, Ana T F B Antiorio, Wothan Tavares-de-Lima, Niels O S Camara, Rui Curi, Emmanuel Dias-Neto, Caroline M Ferreira</p> <p>Microbiome. 2021 Jun 10;9(1):134. doi: 10.1186/s40168-021-01081-2</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/34112246/">https://pubmed.ncbi.nlm.nih.gov/34112246/</a></p>   |
| 129 | <p>Probiotic Endophytes for More Sustainable Banana Production</p> <p>Miguel J Beltran-Garcia, America Martinez-Rodriguez, Ileana Olmos-Arriaga, Benjamin Valdez-Salas, Yur Y Chavez-Castrillon, Paolo Di Mascio, James F White</p> <p>Microorganisms 2021, 9(9), 1805; <a href="https://doi.org/10.3390/microorganisms9091805">https://doi.org/10.3390/microorganisms9091805</a></p> <p><a href="https://www.mdpi.com/2076-2607/9/9/1805">https://www.mdpi.com/2076-2607/9/9/1805</a></p>   |
| 130 | <p>Progress in the photodynamic therapy treatment of Leishmaniasis</p> <p>DG Vital-Fujii, MS Baptista</p> <p>Braz. J. Med. Biol. Res. 54 (12) • 2021 <a href="https://doi.org/10.1590/1414-431X2021e11570">https://doi.org/10.1590/1414-431X2021e11570</a></p> <p><a href="https://www.scielo.br/j/bjmb/a/KVjSKCYJKqXNtwR8gRGH8bx/">https://www.scielo.br/j/bjmb/a/KVjSKCYJKqXNtwR8gRGH8bx/</a></p>  |
| 131 | <p>Proteome-wide modulation of S-nitrosylation in Trypanosoma cruzi trypomastigotes upon interaction with the host extracellular matrix</p> <p>SN Mule, NC Manchola, GS de Oliveira, M Pereira, RDM Magalhaes, AA Teixeira, W Colli, MJM Alves, G Palmisano</p> <p>Journal of Proteomics Volume 231, 16 January 2021, 104020</p> <p><a href="https://doi.org/10.1016/j.jprot.2020.104020">https://doi.org/10.1016/j.jprot.2020.104020</a></p> <p><a href="https://www.sciencedirect.com/science/article/pii/S1874391920303882">https://www.sciencedirect.com/science/article/pii/S1874391920303882</a></p>   |
| 132 | <p>Protocol for design, construction, and selection of genome phage (gPhage) display libraries</p> <p>Luis Antonio Rodriguez Carnero, André Azevedo Reis Teixeira, Fenny Hui Fen Tang, Andréia Kuramoto, Maria Júlia Manso Alves, Walter Colli, João Carlos Setubal, Edécio Cunha-Neto, Renata Pasqualini, Wadih Arap, Ricardo José Giordano</p>   |

|     |  |
|-----|--|
|     | <p>STAR Protocols Volume 2, Issue 4, 17 December 2021, 100936</p> <p><a href="https://www.sciencedirect.com/science/article/pii/S2666166721006420">https://www.sciencedirect.com/science/article/pii/S2666166721006420</a></p>   |
| 133 | <p>Purine Nucleotides Metabolism and Signaling in Huntington's Disease: Search for a Target for Novel Therapies</p> <p>Tomczyk M, Glaser T, Slominska EM, Ulrich H, Smolenski RT</p> <p>Int J Mol Sci. 2021 Jun 18;22(12):6545. doi: 10.3390/ijms22126545.PMID: 34207177 Free PMC article. Review.</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/34207177/">https://pubmed.ncbi.nlm.nih.gov/34207177/</a></p>  |
| 134 | <p>Purinergic Signaling 2020: The State-of-The-Art Commented by the Members of the Italian Purine Club</p> <p>Ciruela F, Fuxe K, Illes P, Ulrich H</p> <p>Caciagli F.Front Pharmacol. 2021 Sep 14;12:768923. doi: 10.3389/fphar.2021.768923</p> <p><a href="https://www.frontiersin.org/articles/10.3389/fphar.2021.768923/full">https://www.frontiersin.org/articles/10.3389/fphar.2021.768923/full</a></p>   |
| 135 | <p>PVT1 signals an androgen-dependent transcriptional repression program in prostate cancer cells and a set of the repressed genes predicts high-risk tumors</p> <p>Alexandre Videira, Felipe C Beckedorff, Sergio Verjovski-Almeida</p> <p>Cell Commun Signal. 2021 Jan 11;19(1):5. doi: 10.1186/s12964-020-00691-x.</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/33430890/">https://pubmed.ncbi.nlm.nih.gov/33430890/</a></p>   |
| 136 | <p>Quercetin treatment increases H2O2 removal by restoration of endogenous antioxidant activity and blocks isoproterenol-induced cardiac hypertrophy.</p> <p>de Lacerda Alexandre JV, Viana YIP, David CEB, Cunha PLO, Albuquerque AC, Varela ALN, Kowaltowski AJ, Facundo HT.</p> <p>Naunyn Schmiedebergs Arch Pharmacol. 2021 Feb;394(2):217-226. doi: 10.1007/s00210-020-01953-8. Epub 2020 Sep 15.</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/32930861/">https://pubmed.ncbi.nlm.nih.gov/32930861/</a></p>  |
| 137 | <p>Receptor-specific Ca<sup>2+</sup> oscillation patterns mediated by differential regulation of P2Y purinergic receptors in rat hepatocytes</p> <p>Juliana C Corrêa-Velloso, Paula J Bartlett, Robert Brumer, Lawrence D Gaspers, Henning Ulrich, Andrew P Thomas</p> <p>iScience Volume 24, Issue 10, 22 October 2021, 103139 <a href="https://doi.org/10.1016/j.isci.2021.103139">https://doi.org/10.1016/j.isci.2021.103139</a></p> <p><a href="https://www.sciencedirect.com/science/article/pii/S258900422101107X">https://www.sciencedirect.com/science/article/pii/S258900422101107X</a></p> |
| 138 | <p>Responsible Science Assessment: downplaying indexes, boosting quality.</p> <p>Kowaltowski AJ, Silber AM, Oliveira MF.</p> <p>An Acad Bras Cienc. 2021 Feb 22;93(1):e20191513. doi: 10.1590/0001-3765202120191513. eCollection 2021</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/33624715/">https://pubmed.ncbi.nlm.nih.gov/33624715/</a></p>   |

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|-----|---|
| 139 | <p>Reverted effect of mesenchymal stem cells in glioblastoma treated with agathisflavone and its selective antitumoral effect on cell viability, migration, and differentiation via STAT3</p> <p>Nascimento RP, Dos Santos BL, da Silva KC, Amaral da Silva VD, de Fátima Costa M, David JM, David JP, Moura-Neto V, Oliveira MDN, Ulrich H, de Faria Lopes GP, Costa SL.</p> <p>J Cell Physiol. 2021 Jul;236(7):5022-5035. doi: 10.1002/jcp.30209.</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/33368262/">https://pubmed.ncbi.nlm.nih.gov/33368262/</a></p>  |
| 140 | <p>Rhesus macaques self-curing from a schistosome infection can display complete immunity to challenge</p> <p>Murilo Sena Amaral, Daisy Woellner Santos, Adriana SA Pereira, Ana Carolina Tahira, João VM Malvezzi, Patrícia Aoki Miyasato, Rafaela de Paula Freitas, Jorge Kalil, Elisa M Tjon Kon Fat, Claudia J de Dood, Paul LAM Corstjens, Govert J Van Dam, Eliana Nakano, Simone de Oliveira Castro, Vânia Gomes de Moura Mattaraia, Ronaldo de Carvalho Augusto, Christoph Grunau, R Alan Wilson, Sergio Verjovski-Almeida</p> <p>Nature Communications volume 12, Article number: 6181 (2021)</p> <p><a href="https://www.nature.com/articles/s41467-021-26497-0">https://www.nature.com/articles/s41467-021-26497-0</a></p> |
| 141 | <p>Role of a high centrality residue in protein dynamics and thermal stability</p> <p>Vitor Medeiros Almeida, Apala Chaudhuri, Marcus Vinicius Cangussu Cardoso, Bruno Yasui Matsuyama, Gláucio Monteiro Ferreira, Gustavo Henrique Goulart Trossini, Roberto Kopke Salinas, J Patrick Loria, Sandro Roberto Marana</p> <p>Journal of Structural Biology Volume 213, Issue 3, September 2021, 107773<br/> <a href="https://doi.org/10.1016/j.jsb.2021.107773">https://doi.org/10.1016/j.jsb.2021.107773</a></p> <p><a href="https://www.sciencedirect.com/science/article/pii/S1047847721000782">https://www.sciencedirect.com/science/article/pii/S1047847721000782</a></p>  |
| 142 | <p>Role of P2X7 Receptors in Immune Responses During Neurodegeneration</p> <p>Oliveira-Giacomelli Á, Petiz LL, Andrejew R, Turrini N, Silva JB, Sack U, Ulrich H.Front</p> <p>Front Cell Neurosci. 2021 May 26;15:662935. doi: 10.3389/fncel.2021.662935.</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/34122013/">https://pubmed.ncbi.nlm.nih.gov/34122013/</a></p>  |
| 143 | <p>Rondonin: antimicrobial properties and mechanism of action</p> <p>Katie CT Riciluca, Ursula C Oliveira, Ronaldo Z Mendonça, Jose C Bozelli Junior, Shirley Schreier, Pedro I da Silva Junior</p> <p>FEBS Open BioVolume 11, Issue 9 p. 2541-2559 <a href="https://doi.org/10.1002/2211-5463.13253">https://doi.org/10.1002/2211-5463.13253</a></p> <p><a href="https://febs.onlinelibrary.wiley.com/doi/full/10.1002/2211-5463.13253">https://febs.onlinelibrary.wiley.com/doi/full/10.1002/2211-5463.13253</a></p>  |
| 144 | <p>R-Spondin1 enhances wnt signaling and decreases weight loss in short bowel syndrome zebrafish</p> <p>Kathryn M Maselli, Gabriel Levin, Kristin M Gee, Elisabeth J LeeFlang, Ana Claudia O Carreira, Mari Cleide Sogayar, Tracy C Grikscheit</p> <p>Biochem Biophys Rep. 2021 Jan 4;25:100874. doi: 10.1016/j.bbrep.2020.100874.</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/33437880/">https://pubmed.ncbi.nlm.nih.gov/33437880/</a></p>   |
| 145 | <p>Secrete or perish: The role of secretion systems in Xanthomonas biology</p>  |



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|-----|--|
|     | <p>Cristina E Alvarez-Martinez, Germán G Sgro, Gabriel G Araujo, Mateus R N Paiva, Bruno Y Matsuyama, Cristiane R Guzzo, Maxuel O Andrade, Chuck S Farah</p> <p>COMPUTATIONAL AND STRUCTURAL BIOTECHNOLOGY JOURNAL, v. 19, p. 279-302, 2021. doi: 10.1016/j.csbj.2020.12.020. eCollection 2021</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/33425257/">https://pubmed.ncbi.nlm.nih.gov/33425257/</a></p>  |
| 146 | <p>Selective Secretase Targeting for Alzheimer's Disease Therapy</p> <p>Miranda A, Montiel E, Ulrich H, Paz C.J</p> <p>Journal of Alzheimer's disease: JAD 81(1 Suppl):1-17 DOI:10.3233/JAD-201027</p> <p><a href="https://www.researchgate.net/publication/350115041_Selective_Secretase_Targeting_for_Alzheimer's_Disease_Therapy">https://www.researchgate.net/publication/350115041_Selective_Secretase_Targeting_for_Alzheimer's_Disease_Therapy</a></p>  |
| 147 | <p>Simultaneous silencing of lysophosphatidylcholine acyltransferases 1-4 by nucleic acid nanoparticles (NANPs) improves radiation response of melanoma cells</p> <p>Renata F Saito, Maria Cristina Rangel, Justin R Halman, Morgan Chandler, Luciana Nogueira de Sousa Andrade, Silvina Odete-Bustos, Tatiane Katsue Furuya, Alexis Germán Murillo Carrasco, Adriano B Chaves-Filho, Marcos Y Yoshinaga, Sayuri Miyamoto, Kirill A Afonin, Roger Chammas</p> <p>Nanomedicine: Nanotechnology, Biology and Medicine Volume 36, August 2021, 102418</p> <p><a href="https://doi.org/10.1016/j.nano.2021.102418">https://doi.org/10.1016/j.nano.2021.102418</a></p> <p><a href="https://www.sciencedirect.com/science/article/pii/S1549963421000617">https://www.sciencedirect.com/science/article/pii/S1549963421000617</a></p> |
| 148 | <p>Sterols in red macroalgae from antarctica: extraction and quantification by Gas Chromatography–Mass spectrometry</p> <p>Ivandra Ighes de Santi, Bruna Silveira Pacheco, Dalila Venzke, Rogerio Antonio Freitag, Leandro Silva de Almeida, Pio Colepicolo, Mutue Toyota Fujii, Daiane Dias, Claudio MP Pereira</p> <p>Polar Biology volume 44, pages987–995 (2021)</p> <p><a href="https://link.springer.com/article/10.1007/s00300-021-02853-0">https://link.springer.com/article/10.1007/s00300-021-02853-0</a></p>  |
| 149 | <p>Stimuli-responsive polymersomes of poly [2-(dimethylamino) ethyl methacrylate]-b-polystyrene</p> <p>Valdomiro V de Souza, Gustavo PB Carretero, Phelipe AM Vitale, Íris Todeschini, Paloma O Kotani, Greice KV Saraiva, Cristiane R Guzzo, Hernan Chaimovich, Fabio H Florenzano, Iolanda M Cuccovia</p> <p>Polymer Bulletin (2021) Published: 12 January 2021</p> <p><a href="https://link.springer.com/article/10.1007/s00289-020-03533-5">https://link.springer.com/article/10.1007/s00289-020-03533-5</a></p>   |
| 150 | <p>Synthesis and Structural Studies of Two New Anthracene Derivatives</p> <p>Rogério F Costa, Marilene S Oliveira, Antônio SN Aguiar, Jean MF Custodio, Paolo Di Mascio, José R Sabino, Giuliana V Verde, João Carlos Perbone de Souza, Lauriane G Santin, Ademir J Camargo, Inaya C Barbosa, Solemar S Oliveira, Hamilton B Napolitano</p> <p>Crystals 2021, 11(8), 934; <a href="https://doi.org/10.3390/cryst11080934">https://doi.org/10.3390/cryst11080934</a></p> <p><a href="https://www.mdpi.com/2073-4352/11/8/934">https://www.mdpi.com/2073-4352/11/8/934</a></p>   |
| 151 | <p>Systems Biology Analysis of the Radiation-Attenuated Schistosome Vaccine Reveals a Role for Growth</p>  |

|     |   |
|-----|---|
|     | <p>Factors in Protection and Hemostasis Inhibition in Parasite Survival</p> <p>LP Farias, J Vitoriano-Souza, LE Cardozo, LDR Gama, Y Singh, PA Miyasato, GT Almeida, D Rodriguez, MMF Barbosa, RS Fernandes, TC Barbosa, AP Silva-Neto, E Nakano, PL Ho, S Verjovski-Almeida, HI Nakaya, RA Wilson</p> <p>Front. Immunol. 12: 624191. doi: 10.3389/fimmu</p> <p><a href="https://www.frontiersin.org/articles/10.3389/fimmu.2021.624191/full">https://www.frontiersin.org/articles/10.3389/fimmu.2021.624191/full</a></p>   |
| 152 | <p>The Division Defect of a Bacillus subtilis minD noc Double Mutant Can Be Suppressed by Spx-Dependent and Spx-Independent Mechanisms</p> <p>Yuanchen Yu, Felix Dempwolff, Reid T Oshiro, Frederico J Gueiros-Filho, Stephen C Jacobson, Daniel B Kearns</p> <p>J. Bacteriol. 2021 Aug 20;203(18):e0024921. doi: 10.1128/JB.00249-21.</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/34181483/">https://pubmed.ncbi.nlm.nih.gov/34181483/</a></p>   |
| 153 | <p>The Endogenous Tryptophan-derived Photoproduct 6-formylindolo[3,2-b]carbazole (FICZ) is a Nanomolar Photosensitizer that Can be Harnessed for the Photodynamic Elimination of Skin Cancer Cells in Vitro and in Vivo</p> <p>Rebecca Justiniano, Lohanna de Faria Lopes, Jessica Perer, Anh Hua, Sophia L Park, Jana Jandova, Maurício S Baptista, Georg T Wondrak</p> <p>Photochemistry and Photobiology Volume 97, Issue 1 p. 180-191 doi: 10.1111/php.13321</p> <p><a href="https://onlinelibrary.wiley.com/doi/full/10.1111/php.13321">https://onlinelibrary.wiley.com/doi/full/10.1111/php.13321</a></p> |
| 154 | <p>The many roles mitochondria play in mammalian aging</p> <p>Caio MPF Batalha, Anibal Eugênio Vercesi, Nadja C Souza-Pinto</p> <p>Published Online:29 Oct 2021 <a href="https://doi.org/10.1089/ars.2021.0074">https://doi.org/10.1089/ars.2021.0074</a></p> <p><a href="https://www.liebertpub.com/doi/abs/10.1089/ars.2021.0074">https://www.liebertpub.com/doi/abs/10.1089/ars.2021.0074</a></p>  |
| 155 | <p>The P2X4 purinergic receptor has emerged as a potent regulator of hematopoietic stem/progenitor cell mobilization and homing-a novel view of P2X4 and P2X7 receptor interaction in orchestrating stem cell trafficking.</p> <p>Adamiak M, Bujko K, Thapa A, Pensato V, Brzezniakiewicz-Janus K, Ratajczak J, Davies DL, Ulrich H, Kucia M, Ratajczak MZ. Leukemia</p> <p>Leukemia. 2021 Jul 20. doi: 10.1038/s41375-021-01352-9. Online ahead of print.</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/34285343/">https://pubmed.ncbi.nlm.nih.gov/34285343/</a></p>   |
| 156 | <p>The PilB-PilZ-FimX regulatory complex of the Type IV pilus from Xanthomonas citri</p> <p>Edgar E Llontop, William Cenens, Denize C Favaro, Germán G Sgro, Roberto K Salinas, Cristiane R Guzzo, Chuck S Farah</p> <p>PLoS Pathogens, v. 17, p. e1009808, 2021</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/34398935/">https://pubmed.ncbi.nlm.nih.gov/34398935/</a></p>   |

|     |   |
|-----|---|
| 157 | <p>The Prospective Use of Brazilian Marine Macroalgae in Schistosomiasis Control</p> <p>Erika M Stein, Sara G Tajú, Patrícia A Miyasato, Rafaela P de Freitas, Lenita de F Tallarico, Guilherme S Dos Santos, Giovana LF Luiz, Henrique K Rofatto, Fábio NV da Silva, Pio Colepico, Arthur L Macedo, Carlos A Carollo, Eliana Nakano</p> <p>Marine drugs 19(5), 234; <a href="https://doi.org/10.3390/md19050234">https://doi.org/10.3390/md19050234</a></p> <p><a href="https://www.mdpi.com/1660-3397/19/5/234">https://www.mdpi.com/1660-3397/19/5/234</a></p>   |
| 158 | <p>The ribosome assembly factor Nop53 has a structural role in the formation of nuclear pre-60S intermediates, affecting late maturation events</p> <p>Felipe FM Bagatelli, Francisca N de Luna Vitorino, Julia PC da Cunha, Carla C Oliveira</p> <p>Nucleic Acids Research, Volume 49, Issue 12, 9 July 2021, Pages 7053–7074, <a href="https://doi.org/10.1093/nar/gkab494">https://doi.org/10.1093/nar/gkab494</a></p> <p><a href="https://academic.oup.com/nar/article/49/12/7053/6298610?login=true">https://academic.oup.com/nar/article/49/12/7053/6298610?login=true</a></p>  |
| 159 | <p>The role of chronic muscle (in)activity on carnosine homeostasis: a study with spinal cord-injured athletes</p> <p>Kleiner Nemezio, Guilherme de Carvalho Yamaguchi, Ana Paula Boito Ramkrapes, Mariane Leichsenring Schulz, Igor Luchini Baptista, Luiz Augusto Riani, Lívia de Souza Gonçalves, Craig Sale, Marisa Helena Gennari de Medeiros, Bruno Gualano, Guilherme Giannini Artioli</p> <p>Published Online:20 MAY 2021<a href="https://doi.org/10.1152/ajpregu.00360.2020">https://doi.org/10.1152/ajpregu.00360.2020</a></p> <p><a href="https://journals.physiology.org/doi/full/10.1152/ajpregu.00360.2020">https://journals.physiology.org/doi/full/10.1152/ajpregu.00360.2020</a></p> |
| 160 | <p>The SARS-CoV-2 Nsp3 macrodomain reverses PARP9/DTX3L-dependent ADP-ribosylation induced by interferon signaling</p> <p>Lilian Cristina Russo, Rebeka Tomasin, Isaac Araújo Matos, Antonio Carlos Manucci, Sven T Sowa, Katie Dale, Keith W Caldecott, Lari Lehtiö, Deborah Schechtman, Flavia C Meotti, Alexandre Bruni-Cardoso, Nicolas Carlos Hoch</p> <p>J Biol Chem. 2021 Sep;297(3):101041. doi: 10.1016/j.jbc.2021.101041.</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/34358560/">https://pubmed.ncbi.nlm.nih.gov/34358560/</a></p>  |
| 161 | <p>The sugar-responsive circadian clock regulator bZIP63 modulates plant growth</p> <p>Américo J C Viana, Cleverson C Matioli, David W Newman, João G P Vieira, Gustavo T Duarte, Marina C M Martins, Elodie Gilbault, Carlos T Hotta, Camila Caldana, Michel Vincentz</p> <p>New Phytol. 2021 Sep;231(5):1875-1889. doi: 10.1111/nph.17518. Epub 2021 Jun 30.</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/34053087/">https://pubmed.ncbi.nlm.nih.gov/34053087/</a></p>   |
| 162 | <p>The thermal proteome stability profile of Trypanosoma cruzi in epimastigote and trypomastigote life stages</p> <p>Joao VP Coutinho, Livia Rosa-Fernandes, Simon Ngao Mule, Gilberto Santos de Oliveira, Nubia Carolina Manchola, Veronica Feijoli Santiago, Walter Colli, Carsten Wrenger, Maria Julia Manso Alves, Giuseppe Palmisano</p> <p>Journal of Proteomics Volume 248, 30 September 2021, 104339</p>  |

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|-----|---|
|     | <p><a href="https://doi.org/10.1016/j.jprot.2021.104339">https://doi.org/10.1016/j.jprot.2021.104339</a></p> <p><a href="https://www.sciencedirect.com/science/article/pii/S1874391921002384">https://www.sciencedirect.com/science/article/pii/S1874391921002384</a></p>   |
| 163 | <p>The Tribute of Physiology for the Understanding of COVID-19 Disease</p> <p>Georges Lefthérotis, Susan Wray, Adriana Castello Costa Girardi, Emmanuelle Vidal-Petiot, Matthew A Bailey, Deborah Schechtman, Nistala Ravi, Denis Noble</p> <p>Front Physiol. 2021; 12: 761644. doi: 10.3389/fphys.2021.761644</p> <p><a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8506928/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8506928/</a></p>   |
| 164 | <p>Toxicity of metal cations and phenolic compounds to the bioluminescent fungus <i>Neonothopanus gardneri</i></p> <p>Fernanda F Ventura, Douglas MM Soares, Kevin Bayle, Anderson G Oliveira, Etelvino JH Bechara, Renato S Freire, Cassius V Stevani</p> <p>Environmental Advances Volume 4, July 2021, 100044 <a href="https://doi.org/10.1016/j.envadv.2021.100044">https://doi.org/10.1016/j.envadv.2021.100044</a></p> <p><a href="https://www.sciencedirect.com/science/article/pii/S2666765721000156">https://www.sciencedirect.com/science/article/pii/S2666765721000156</a></p>   |
| 165 | <p>Transcriptional signatures underlying dynamic phenotypic switching and malignancy in a linear cellular model of melanoma progression.</p> <p>Diogo de Oliveira Pessoa, Flávia Eichenberger Rius, Debora D'Angelo Papaiz, Ana Luísa Pedroso Ayub, Alice Santana Morais, Camila Ferreira de Souza, Vinicius Ferreira da Paixão, João Carlos Setubal, Julia Newton-Bishop, Jérémie Nsengimana, Hatylas Azevedo, Eduardo Moraes Reis, Miriam Galvonas Jasiulionis</p> <p>Neoplasia, 23(4): 439-455, 2021 doi: 10.1016/j.neo.2021.03.007</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/33845354/">https://pubmed.ncbi.nlm.nih.gov/33845354/</a></p>                         |
| 166 | <p>Transcriptome of iPSC-derived neuronal cells reveals a module of co-expressed genes consistently associated with autism spectrum disorder</p> <p>K Griesi-Oliveira, MS Fogo, BGG Pinto, AY Alves, AM Suzuki, AG Morales, S Ezquina, OJ Sosa, GJ Sutton, DY Sunaga-Franze, AP Bueno, G Seabra, L Sardinha, SS Costa, C Rosenberg, EC Zachi, AL Sertie, D Martins-de-Souza, EM Reis, I Voineagu, MR Passos-Bueno</p> <p>Molecular Psychiatry volume 26, pages1589–1605 (2021)</p> <p><a href="https://www.nature.com/articles/s41380-020-0669-9">https://www.nature.com/articles/s41380-020-0669-9</a></p>   |
| 167 | <p>Transcriptomic and proteomic analysis of the underlying mechanisms of digestion of triacylglycerols and phosphatides and absorption and fate of fatty acids along the midgut of <i>Musca domestica</i></p> <p>Ignacio G Barroso, Christiane Cardoso, Clelia Ferreira, Walter R Terra</p> <p>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics Volume 39, September 2021, 100826 <a href="https://doi.org/10.1016/j.cbd.2021.100826">https://doi.org/10.1016/j.cbd.2021.100826</a></p> <p><a href="https://www.sciencedirect.com/science/article/pii/S1744117X21000381">https://www.sciencedirect.com/science/article/pii/S1744117X21000381</a></p> |
| 168 | <p>Tunneling and Nonadiabatic Effects on a Proton-Coupled Electron Transfer Model for the Qo Site in Cytochrome bc1</p>   |

|     |   |
|-----|---|
|     | <p>Sofia RG Camilo, Felipe Curtolo, Vanesa V Galassi, Guilherme M Arantes</p> <p>Journal of Chemical Information and Modeling 2021, 61, 4, 1840–1849<br/> <a href="https://doi.org/10.1021/acs.jcim.1c00008">https://doi.org/10.1021/acs.jcim.1c00008</a></p> <p><a href="https://pubs.acs.org/doi/abs/10.1021/acs.jcim.1c00008">https://pubs.acs.org/doi/abs/10.1021/acs.jcim.1c00008</a></p>  |
| 169 | <p>Uma abordagem de ensino ativo em um experimento de eletrólise.</p> <p>Arini, G.S.; Santos, L.V.S.; Torres. B.B</p> <p>QNEsc Vol. 43, N° 2, p. 176-182. 2021.</p> <p><a href="http://qnesc.sbg.org.br/online/qnesc43_2/07-RSA-35-20.pdf">http://qnesc.sbg.org.br/online/qnesc43_2/07-RSA-35-20.pdf</a></p>  |
| 170 | <p>Unveiling the contribution of the reproductive system of individual <i>Caenorhabditis elegans</i> on oxygen consumption by single-point scanning electrochemical microscopy measurements.</p> <p>Santos CS, Macedo F, Kowaltowski AJ, Bertotti M, Unwin PR, Marques da Cunha F, Meloni GN.</p> <p>Anal Chim Acta. 2021 Feb 15;1146:88-97. doi: 10.1016/j.aca.2020.12.030. Epub 2020 Dec 29.</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/33461723/">https://pubmed.ncbi.nlm.nih.gov/33461723/</a></p> |
| 171 | <p>UV Radiation-induced Impairment of Cellular Morphology and Motility is Enhanced by DUSP3/VHR Loss and FAK Activation</p> <p>Nadine Ranieri Pereira, Lilian Cristina Russo, Fabio Luis Forti</p> <p>Cell Biochem Biophys. 2021 Jun;79(2):261-269. doi: 10.1007/s12013-021-00966-1</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/33479884/">https://pubmed.ncbi.nlm.nih.gov/33479884/</a></p>  |
| 172 | <p>Viral infection and smell loss: The case of COVID-19.</p> <p>Isaias Glezer, Alexandre Bruni-Cardoso, Deborah Schechtman, Bettina Malnic</p> <p>J Neurochem. 2021 May;157(4):930-943. doi: 10.1111/jnc.15197.</p> <p><a href="https://pubmed.ncbi.nlm.nih.gov/32970861/">https://pubmed.ncbi.nlm.nih.gov/32970861/</a></p>  |