

# Dhanansayan Shanmuganayagam

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

55  
papers

1,595  
citations

19  
h-index

39  
g-index

65  
ext. papers

1,883  
ext. citations

3.6  
avg, IF

4.42  
L-index

| #  | Paper  | IF  | Citations |
|----|--|-----|-----------|
| 55 | Brachial plexus anatomy in the miniature swine as compared to human. <i>Journal of Anatomy</i> , <b>2022</b> , 240, 172-181  | 2.9 |           |
| 54 | Modeling Candida auris Colonization on Porcine Skin Ex Vivo. <i>Methods in Molecular Biology</i> , <b>2022</b> , 251-258   | 4   | 1         |
| 53 | Radiation-induced Hounsfield unit change correlates with dynamic CT perfusion better than 4DCT-based ventilation measures in a novel-swine model. <i>Scientific Reports</i> , <b>2021</b> , 11, 13156  | 4.9 | 0         |
| 52 | Epigenetic clock and DNA methylation analysis of porcine models of aging and obesity. <i>GeroScience</i> , <b>2021</b> , 43, 2467-2483   | 8.9 | 11        |
| 51 | Assessment of Mosaicism and Detection of Cryptic Alleles in CRISPR/Cas9-Engineered Neurofibromatosis Type 1 and Mutant Porcine Models Reveals Overlooked Challenges in Precision Modeling of Human Diseases. <i>Frontiers in Genetics</i> , <b>2021</b> , 12, 721045 | 4.5 | 1         |
| 50 | Candida auris Forms High-Burden Biofilms in Skin Niche Conditions and on Porcine Skin. <i>MSphere</i> , <b>2020</b> , 5,   | 5   | 33        |
| 49 | Age- and Tissue-Specific Alternative Splicing of the Neurofibromin Gene in Swine. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1   | 0.9 |           |
| 48 | Effects of Lipid Oxidation Products Found in Used Restaurant Fryer Oils on Adipocyte Differentiation and Lipid Metabolism. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1  | 0.9 |           |
| 47 | Methodology for Efficient and Biosecure Genetic Engineering of Biomedical Swine Models. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1   | 0.9 |           |
| 46 | Longitudinal Effects of Dietary Oxidized Lipids on the Gut Microbiome and Mycobiome in Pigs. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1  | 0.9 | 1         |
| 45 | MODL-13. GENETICALLY ENGINEERED PIG MODEL OF RHABDOID TUMOR PREDISPOSITION SYNDROME-1. <i>Neuro-Oncology</i> , <b>2020</b> , 22, iii413-iii413   | 1   | 78        |
| 44 | Presence of lipid oxidation products in swine diet lowers pork quality and stability during storage. <i>Meat Science</i> , <b>2020</b> , 160, 107946   | 6.4 | 3         |
| 43 | Tissue Specific Expression of Neurofibromin Isoforms in Swine. <i>FASEB Journal</i> , <b>2019</b> , 33, 595.7  | 0.9 |           |
| 42 | Comprehensive Characterization of Swine Cardiac Troponin T Proteoforms by Top-Down Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2018</b> , 29, 1284-1294   | 3.5 | 9         |
| 41 | Effect of Sweetened Dried Cranberry Consumption on Urinary Proteome and Fecal Microbiome in Healthy Human Subjects. <i>OMICS A Journal of Integrative Biology</i> , <b>2018</b> , 22, 145-153  | 3.8 | 23        |
| 40 | Optimized Induction of Neurospheres from Porcine Mesenchymal Stem Cells. <i>FASEB Journal</i> , <b>2018</b> , 32, 615.6  | 0.9 |           |
| 39 | Modified HPLC method for detection of hydroxyoctadecadienoic acid with greater sensitivity. <i>FASEB Journal</i> , <b>2018</b> , 32, 540.9   | 0.9 |           |

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| 38 | Comparative Morphometry of the Wisconsin Miniature Swine Thoracic Spine for Modeling Human Spine in Translational Spinal Cord Injury Research. <i>Annals of Neurosciences</i> , <b>2018</b> , 25, 210-218  | 1.1 | 6   |
| 37 | Translational Relevance of Swine Models of Spinal Cord Injury. <i>Journal of Neurotrauma</i> , <b>2017</b> , 34, 541-554   | 3.4 | 25  |
| 36 | Effect of Caloric Restriction on Metabolic Dysfunction of Young Rapacz Familial Hypercholesterolemic Swine (). <i>Comparative Medicine</i> , <b>2017</b> , 67, 508-517   | 1.6 |     |
| 35 | Miniature Swine for Preclinical Modeling of Complexities of Human Disease for Translational Scientific Discovery and Accelerated Development of Therapies and Medical Devices. <i>Toxicologic Pathology</i> , <b>2016</b> , 44, 299-314  | 2.1 | 44  |
| 34 | Critical reevaluation of the 4-(dimethylamino)cinnamaldehyde assay: Cranberry proanthocyanidin standard is superior to procyanidin A2 dimer for accurate quantification of proanthocyanidins in cranberry products. <i>Journal of Functional Foods</i> , <b>2016</b> , 22, 13-19     | 5.1 | 16  |
| 33 | A Perspective on the Delivery of Renal Denervation Therapy Based on Pre-Clinical Data. <i>JACC Basic To Translational Science</i> , <b>2016</b> , 1, 288-295   | 8.7 |     |
| 32 | Plasma diacylglycerol composition is a biomarker of metabolic syndrome onset in rhesus monkeys. <i>Journal of Lipid Research</i> , <b>2015</b> , 56, 1461-70   | 6.3 | 13  |
| 31 | Measurements of wall shear stress and aortic pulse wave velocity in swine with familial hypercholesterolemia. <i>Journal of Magnetic Resonance Imaging</i> , <b>2015</b> , 41, 1475-85   | 5.6 | 5   |
| 30 | Development of Aortic Valve Disease in Familial Hypercholesterolemic Swine: Implications for Elucidating Disease Etiology. <i>Journal of the American Heart Association</i> , <b>2015</b> , 4, e002254   | 6   | 18  |
| 29 | Parenteral nutrition decreases paneth cell function and intestinal bactericidal activity while increasing susceptibility to bacterial enteroinvasion. <i>Journal of Parenteral and Enteral Nutrition</i> , <b>2014</b> , 38, 817-824   | 4.2 | 46  |
| 28 | Ratio of "A-type" to "B-type" proanthocyanidin interflavan bonds affects extra-intestinal pathogenic Escherichia coli invasion of gut epithelial cells. <i>Journal of Agricultural and Food Chemistry</i> , <b>2014</b> , 62, 3919-25  | 5.7 | 58  |
| 27 | Validation of HPLC assay for the identification and quantification of anthocyanins in black currants. <i>Analytical Methods</i> , <b>2014</b> , 6, 8141-8147   | 3.2 | 1   |
| 26 | Supercritical fluid extraction (SFE) of cranberries does not extract oligomeric proanthocyanidins (PAC) but does alter the chromatography and bioactivity of PAC fractions extracted from SFE residues. <i>Journal of Agricultural and Food Chemistry</i> , <b>2014</b> , 62, 7730-7 | 5.7 | 15  |
| 25 | Imaging RAGE expression in atherosclerotic plaques in hyperlipidemic pigs. <i>EJNMMI Research</i> , <b>2014</b> , 4, 26  | 3.6 | 8   |
| 24 | Bioavailability, bioactivity and impact on health of dietary flavonoids and related compounds: an update. <i>Archives of Toxicology</i> , <b>2014</b> , 88, 1803-53  | 5.8 | 386 |
| 23 | Cranberry proanthocyanidins improve intestinal sIgA during elemental enteral nutrition. <i>Journal of Parenteral and Enteral Nutrition</i> , <b>2014</b> , 38, 107-14  | 4.2 | 26  |
| 22 | Gene Expression Profiling of Valvular Interstitial Cells in Rapacz Familial Hypercholesterolemic Swine. <i>Genomics Data</i> , <b>2014</b> , 2, 261-263  |     | 3   |
| 21 | Parenteral nutrition increases susceptibility of ileum to invasion by E coli. <i>Journal of Surgical Research</i> , <b>2013</b> , 183, 583-91  | 2.5 | 13  |

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| 20 | Cranberry proanthocyanidins improve the gut mucous layer morphology and function in mice receiving elemental enteral nutrition. <i>Journal of Parenteral and Enteral Nutrition</i> , <b>2013</b> , 37, 401-9  | 4.2 | 57  |
| 19 | Consumption of cranberry powder shifts urinary protein profile in healthy human subjects. <i>FASEB Journal</i> , <b>2013</b> , 27, 637.32   | 0.9 | 2   |
| 18 | A-type proanthocyanidins from cranberry inhibit the ability of extraintestinal pathogenic E. coli to invade gut epithelial cells and resist killing by macrophages. <i>FASEB Journal</i> , <b>2013</b> , 27, 637.16   | 0.9 | 1   |
| 17 | Deconvolution of matrix-assisted laser desorption/ionization time-of-flight mass spectrometry isotope patterns to determine ratios of A-type to B-type interflavan bonds in cranberry proanthocyanidins. <i>Food Chemistry</i> , <b>2012</b> , 135, 1485-93                     | 8.5 | 46  |
| 16 | Comparison of isolated cranberry ( <i>Vaccinium macrocarpon</i> Ait.) proanthocyanidins to catechin and procyanidins A2 and B2 for use as standards in the 4-(dimethylamino)cinnamaldehyde assay. <i>Journal of Agricultural and Food Chemistry</i> , <b>2012</b> , 60, 4578-85 | 5.7 | 65  |
| 15 | Differential effects of grape ( <i>Vitis vinifera</i> ) skin polyphenolics on human platelet aggregation and low-density lipoprotein oxidation. <i>Journal of Agricultural and Food Chemistry</i> , <b>2012</b> , 60, 5787-94   | 5.7 | 15  |
| 14 | Displacement and strain estimation for evaluation of arterial wall stiffness using a familial hypercholesterolemia swine model of atherosclerosis. <i>Medical Physics</i> , <b>2012</b> , 39, 4483-92   | 4.4 | 7   |
| 13 | Effect of prophylactic supplementation with grape polyphenolics on endotoxin-induced serum secretory phospholipase A2 activity in rats. <i>Comparative Medicine</i> , <b>2012</b> , 62, 271-8   | 1.6 | 5   |
| 12 | Metabolic shifts due to long-term caloric restriction revealed in nonhuman primates. <i>Experimental Gerontology</i> , <b>2009</b> , 44, 356-62   | 4.5 | 64  |
| 11 | Caloric restriction and aging: studies in mice and monkeys. <i>Toxicologic Pathology</i> , <b>2009</b> , 37, 47-51  | 2.1 | 181 |
| 10 | A continuous fluorescence assay for the determination of calcium-dependent secretory phospholipase A2 activity in serum. <i>Clinica Chimica Acta</i> , <b>2007</b> , 379, 119-26  | 6.2 | 12  |
| 9  | Concord grape juice attenuates platelet aggregation, serum cholesterol and development of atheroma in hypercholesterolemic rabbits. <i>Atherosclerosis</i> , <b>2007</b> , 190, 135-42  | 3.1 | 57  |
| 8  | Measurement of regional choroidal blood flow in rabbits and monkeys using fluorescent microspheres. <i>JAMA Ophthalmology</i> , <b>2006</b> , 124, 860-8  |     | 25  |
| 7  | Antithrombotic properties of the thromboxane A2/prostaglandin H2 receptor antagonist S18886 on prevention of platelet-dependent cyclic flow reductions in dogs. <i>Journal of Cardiovascular Pharmacology</i> , <b>2005</b> , 45, 389-95  | 3.1 | 11  |
| 6  | Grape seed and grape skin extracts elicit a greater antiplatelet effect when used in combination than when used individually in dogs and humans. <i>Journal of Nutrition</i> , <b>2002</b> , 132, 3592-8  | 4.1 | 66  |
| 5  | Effect of polyphenolic flavonoid compounds on platelets. <i>Methods in Enzymology</i> , <b>2001</b> , 335, 369-80   | 1.7 | 7   |
| 4  | Grape juice but not orange or grapefruit juice inhibits platelet activity in dogs and monkeys. <i>Journal of Nutrition</i> , <b>1998</b> , 128, 2307-12   | 4.1 | 90  |
| 3  | Inhibition of platelet activity with red wine and grape products. <i>BioFactors</i> , <b>1997</b> , 6, 411-4  | 6.1 | 7   |

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|---|--|----|
| 2 | Epigenetic clock and DNA methylation analysis of porcine models of aging and obesity | 3  |
| 1 | Universal DNA methylation age across mammalian tissues                               | 31 |