

Kaushik M Desai

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

2,908
citations

293460

24
h-index

312153

41
g-index

44
all docs

44
docs citations

44
times ranked

3660
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Glycemic, insulinemic and methylglyoxal postprandial responses to starches alone or in whole diets in dogs versus cats: Relating the concept of glycemic index to metabolic responses and gene expression. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2021, 257, 110973. | 0.8 | 10 |
| 2 | The effects of oral arginine on its metabolic pathways in Sprague-Dawley rats. <i>British Journal of Nutrition</i> , 2020, 123, 135-148. | 1.2 | 9 |
| 3 | Pharmacological evaluation of novel alagebrium analogs as methylglyoxal scavengers in vitro in cardiac myocytes and in vivo in SD rats. <i>International Journal of Cardiology</i> , 2016, 223, 581-589. | 0.8 | 7 |
| 4 | The Small Molecule Indirubin-3'-Oxime Inhibits Protein Kinase R: Antiapoptotic and Antioxidant Effect in Rat Cardiac Myocytes. <i>Pharmacology</i> , 2016, 97, 25-30. | 0.9 | 20 |
| 5 | Alagebrium attenuates methylglyoxal induced oxidative stress and AGE formation in H9C2 cardiac myocytes. <i>Life Sciences</i> , 2016, 146, 8-14. | 2.0 | 16 |
| 6 | Protein kinase R and the metabolic syndrome. <i>Journal of Cellular Biotechnology</i> , 2015, 1, 53-61. | 0.1 | 1 |
| 7 | Methylglyoxal, a Reactive Glucose Metabolite, Increases Renin Angiotensin Aldosterone and Blood Pressure in Male Sprague-Dawley Rats. <i>American Journal of Hypertension</i> , 2014, 27, 308-316. | 1.0 | 24 |
| 8 | Hydrogen Sulfide Releasing Aspirin, ACS14, Attenuates High Glucose-Induced Increased Methylglyoxal and Oxidative Stress in Cultured Vascular Smooth Muscle Cells. <i>PLoS ONE</i> , 2014, 9, e97315. | 1.1 | 20 |
| 9 | Up-regulation of aldolase A and methylglyoxal production in adipocytes. <i>British Journal of Pharmacology</i> , 2013, 168, 1639-1646. | 2.7 | 11 |
| 10 | Increased Methylglyoxal Formation with Upregulation of Renin Angiotensin System in Fructose Fed Sprague Dawley Rats. <i>PLoS ONE</i> , 2013, 8, e74212. | 1.1 | 47 |
| 11 | Arginine Attenuates Methylglyoxal- and High Glucose-Induced Endothelial Dysfunction and Oxidative Stress by an Endothelial Nitric-Oxide Synthase-Independent Mechanism. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2012, 342, 196-204. | 1.3 | 37 |
| 12 | Aldolase B Knockdown Prevents High Glucose-Induced Methylglyoxal Overproduction and Cellular Dysfunction in Endothelial Cells. <i>PLoS ONE</i> , 2012, 7, e41495. | 1.1 | 19 |
| 13 | A study of the mechanisms of methylglyoxal-induced dyslipidemia. <i>International Journal of Cardiology</i> , 2011, 152, S75-S76. | 0.8 | 0 |
| 14 | Upregulation of aldolase B and overproduction of methylglyoxal in vascular tissues from rats with metabolic syndrome. <i>Cardiovascular Research</i> , 2011, 92, 494-503. | 1.8 | 59 |
| 15 | Chronic Methylglyoxal Infusion by Minipump Causes Pancreatic β -Cell Dysfunction and Induces Type 2 Diabetes in Sprague-Dawley Rats. <i>Diabetes</i> , 2011, 60, 899-908. | 0.3 | 131 |
| 16 | Hydrogen sulfide and the metabolic syndrome. <i>Expert Review of Clinical Pharmacology</i> , 2011, 4, 63-73. | 1.3 | 19 |
| 17 | Oxidative stress and aging: Is methylglyoxal the hidden enemy? This review is one of a selection of papers published in a Special Issue on Oxidative Stress in Health and Disease.. <i>Canadian Journal of Physiology and Pharmacology</i> , 2010, 88, 273-284. | 0.7 | 180 |
| 18 | Alagebrium attenuates acute methylglyoxal-induced glucose intolerance in Sprague-Dawley rats. <i>British Journal of Pharmacology</i> , 2010, 159, 166-175. | 2.7 | 80 |

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|----|--|-----|-----------|
| 19 | Methylglyoxal scavengers attenuate endothelial dysfunction induced by methylglyoxal and high concentrations of glucose. <i>British Journal of Pharmacology</i> , 2010, 161, 1843-1856. | 2.7 | 102 |
| 20 | Decreases in splanchnic vascular resistance contribute to hypotensive effects of L-serine in hypertensive rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 298, H1789-H1796. | 1.5 | 5 |
| 21 | Methylglyoxal, Oxidative Stress, and Aging. , 2010, , 149-167. | | 3 |
| 22 | Methylglyoxal, protein binding and biological samples: Are we getting the true measure?. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009, 877, 1093-1100. | 1.2 | 80 |
| 23 | Methylglyoxal production in vascular smooth muscle cells from different metabolic precursors. <i>Metabolism: Clinical and Experimental</i> , 2008, 57, 1211-1220. | 1.5 | 66 |
| 24 | FREE RADICAL GENERATION BY METHYLGLYOXAL IN TISSUES. <i>Drug Metabolism and Drug Interactions</i> , 2008, 23, 151-174. | 0.3 | 68 |
| 25 | Nitric Oxide Synthase Inhibition Promotes Endothelium-Dependent Vasodilatation and the Antihypertensive Effect of L-Serine. <i>Hypertension</i> , 2008, 51, 791-796. | 1.3 | 25 |
| 26 | L-Serine lowers while glycine increases blood pressure in chronic L-NAME-treated and spontaneously hypertensive rats. <i>Journal of Hypertension</i> , 2008, 26, 2339-2348. | 0.3 | 23 |
| 27 | Attenuation of hypertension development by scavenging methylglyoxal in fructose-treated rats. <i>Journal of Hypertension</i> , 2008, 26, 765-772. | 0.3 | 73 |
| 28 | Attenuation of Hypertension Development by Aminoguanidine in Spontaneously Hypertensive Rats: Role of Methylglyoxal. <i>American Journal of Hypertension</i> , 2007, 20, 629-636. | 1.0 | 51 |
| 29 | Methylglyoxal and Advanced Glycation Endproducts: New Therapeutic Horizons?. <i>Recent Patents on Cardiovascular Drug Discovery</i> , 2007, 2, 89-99. | 1.5 | 78 |
| 30 | Clofibrate Acutely Reverses Saline-Induced Endothelial Dysfunction: Role of Calcium-Activated Potassium Channels. <i>American Journal of Hypertension</i> , 2006, 19, 1167-1173. | 1.0 | 9 |
| 31 | Inability to Upregulate Cytochrome P450 4A and 2C Causes Salt Sensitivity in Young Sprague-Dawley Rats. <i>American Journal of Hypertension</i> , 2006, 19, 1174-1180. | 1.0 | 17 |
| 32 | Gender-related differences in advanced glycation endproducts, oxidative stress markers and nitric oxide synthases in rats. <i>Kidney International</i> , 2006, 69, 281-287. | 2.6 | 53 |
| 33 | Chronic treatment with vascular endothelial growth factor preserves agonist-evoked vascular responses in the streptozotocin-induced diabetic rat. <i>Diabetologia</i> , 2006, 49, 811-818. | 2.9 | 11 |
| 34 | EDHF-mediated rapid restoration of hypotensive response to acetylcholine after chronic, but not acute, nitric oxide synthase inhibition in rats. <i>European Journal of Pharmacology</i> , 2006, 546, 120-126. | 1.7 | 30 |
| 35 | Vascular methylglyoxal metabolism and the development of hypertension. <i>Journal of Hypertension</i> , 2005, 23, 1565-1573. | 0.3 | 108 |
| 36 | Nitric oxide synthase inhibition exaggerates the hypotensive response to ghrelin: role of calcium-activated potassium channels. <i>Journal of Hypertension</i> , 2005, 23, 779-784. | 0.3 | 62 |

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|----|--|-----|-----------|
| 37 | Increased methylglyoxal and advanced glycation end products in kidney from spontaneously hypertensive rats. <i>Kidney International</i> , 2004, 66, 2315-2321. | 2.6 | 109 |
| 38 | Endothelial dysfunction accompanies a pro-oxidant, pro-diabetic challenge in the insulin resistant, obese Zucker rat in vivo. <i>European Journal of Pharmacology</i> , 2000, 402, 95-99. | 1.7 | 36 |
| 39 | Pro-oxidant challenge in vivo provokes the onset of NIDDM in the insulin resistant obese Zucker rat. <i>British Journal of Pharmacology</i> , 1999, 128, 269-271. | 2.7 | 42 |
| 40 | F2-isoprostane evidence of oxidant stress in the insulin resistant, obese Zucker rat: effects of vitamin E. <i>European Journal of Pharmacology</i> , 1999, 377, 89-92. | 1.7 | 91 |
| 41 | Elevated blood pressures in mice lacking endothelial nitric oxide synthase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 13176-13181. | 3.3 | 835 |
| 42 | The Golgi Association of Endothelial Nitric Oxide Synthase Is Necessary for the Efficient Synthesis of Nitric Oxide. <i>Journal of Biological Chemistry</i> , 1995, 270, 17641-17644. | 1.6 | 232 |
| 43 | 5-HT ₃ receptors do not mediate vagally-induced relaxation or contraction of the isolated stomach of the guinea pig. <i>British Journal of Pharmacology</i> , 1994, 111, 346-350. | 2.7 | 5 |
| 44 | Aging: Drugs to Eliminate Methylglyoxal, a Reactive Glucose Metabolite, and Advanced Glycation Endproducts. , 0, , . | | 4 |