Marco Bugliani

List of Publications by Year
in descending order

103 papers	8,288 citations	47006 47 h-index	48315 88 g-index
105 all docs	105 docs citations	105 times ranked	13181 citing authors

#	Article	IF	Citations
1	Pro-Inflammatory Cytokines Induce Insulin and Glucagon Double Positive Human Islet Cells That Are Resistant to Apoptosis. Biomolecules, 2021, 11, 320.	4.0	9
2	Spatiotemporal Correlation Spectroscopy Reveals a Protective Effect of Peptide-Based GLP-1 Receptor Agonism against Lipotoxicity on Insulin Granule Dynamics in Primary Human Î²-Cells. Pharmaceutics, 2021, 13, 1403.	4.5	2
3	Protective effects of Stevia rebaudiana extracts on beta cells in lipotoxic conditions. Acta Diabetologica, 2021, , 1.	2.5	2
4	Persistent or Transient Human Î² Cell Dysfunction Induced by Metabolic Stress: Specific Signatures and Shared Gene Expression with Type 2 Diabetes. Cell Reports, 2020, 33, 108466.	6.4	65
5	Circulating unmethylated CHTOP and INS DNA fragments provide evidence of possible islet cell death in youth with obesity and diabetes. Clinical Epigenetics, 2020, 12, 116.	4.1	17
6	Fostering improved human islet research: a European perspective. Diabetologia, 2019, 62, 1514-1516.	6.3	13
7	Insulin secretory granules labelled with phogrin-fluorescent proteins show alterations in size, mobility and responsiveness to glucose stimulation in living Î²-cells. Scientific Reports, 2019, 9, 2890.	3.3	24
8	The miRNAs miR-211-5p and miR-204-5p modulate ER stress in human beta cells. Journal of Molecular Endocrinology, 2019, 63, 139-149.	2.5	29
9	LRH-1 agonism favours an immune-islet dialogue which protects against diabetes mellitus. Nature Communications, 2018, 9, 1488.	12.8	50
10	The type 2 diabetes-associated HMG20A gene is mandatory for islet beta cell functional maturity. Cell Death and Disease, 2018, 9, 279.	6.3	36
11	DPP-4 is expressed in human pancreatic beta cells and its direct inhibition improves beta cell function and survival in type 2 diabetes. Molecular and Cellular Endocrinology, 2018, 473, 186-193.	3.2	48
12	MondoA Is an Essential Glucose-Responsive Transcription Factor in Human Pancreatic Î²-Cells. Diabetes, 2018, 67, 461-472.	0.6	36
13	SRp55 Regulates a Splicing Network That Controls Human Pancreatic Î²-Cell Function and Survival. Diabetes, 2018, 67, 423-436.	0.6	46
14	Systems biology of the IMIDIA biobank from organ donors and pancreatectomised patients defines a novel transcriptomic signature of islets from individuals with type 2 diabetes. Diabetologia, 2018, 61, 641-657.	6.3	131
15	Glucocorticoids Reprogram Î²-Cell Signaling to Preserve Insulin Secretion. Diabetes, 2018, 67, 278-290.	0.6	52
16	Inflammation-Induced Citrullinated Glucose-Regulated Protein 78 Elicits Immune Responses in Human Type 1 Diabetes. Diabetes, 2018, 67, 2337-2348.	0.6	56
17	Protective role of the ELOVL2/docosahexaenoic acid axis in glucolipotoxicity-induced apoptosis in rodent beta cells and human islets. Diabetologia, 2018, 61, 1780-1793.	6.3	32
18	Conventional and Neo-antigenic Peptides Presented by Î² Cells Are Targeted by Circulating NaÃ¯ve CD8+ T Cells in Type 1 Diabetic and Healthy Donors. Cell Metabolism, 2018, 28, 946-960.e6.	16.2	177

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19	Conformal coating by multilayer nano-encapsulation for the protection of human pancreatic islets: In-vitro and in-vivo studies. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 2191-2203.	3.3	26
20	The effects of kisspeptin on Î²â€cell function, serum metabolites and appetite in humans. Diabetes, Obesity and Metabolism, 2018, 20, 2800-2810.	4.4	74
21	Probing the light scattering properties of insulin secretory granules in single live cells. Biochemical and Biophysical Research Communications, 2018, 503, 2710-2714.	2.1	5
22	Virus-like infection induces human Î² cell dedifferentiation. JCI Insight, 2018, 3, .	5.0	53
23	The immunoproteasome is induced by cytokines and regulates apoptosis in human islets. Journal of Endocrinology, 2017, 233, 369-379.	2.6	26
24	Ultrastructural alterations of pancreatic beta cells in human diabetes mellitus. Diabetes/Metabolism Research and Reviews, 2017, 33, e2894.	4.0	46
25	Palmitate-induced lipotoxicity alters acetylation of multiple proteins in clonal Î² cells and human pancreatic islets. Scientific Reports, 2017, 7, 13445.	3.3	44
26	Atorvastatin but Not Pravastatin Impairs Mitochondrial Function in Human Pancreatic Islets and Rat Î²-Cells. Direct Effect of Oxidative Stress. Scientific Reports, 2017, 7, 11863.	3.3	59
27	The Myokine Irisin Is Released in Response to Saturated Fatty Acids and Promotes Pancreatic Î²-Cell Survival and Insulin Secretion. Diabetes, 2017, 66, 2849-2856.	0.6	96
28	Pancreatic Î²-cell protection from inflammatory stress by the endoplasmic reticulum proteins thrombospondin 1 and mesencephalic astrocyte-derived neutrotrophic factor (MANF). Journal of Biological Chemistry, 2017, 292, 14977-14988.	3.4	41
29	MicroRNAs miR-23a-3p, miR-23b-3p, and miR-149-5p Regulate the Expression of Proapoptotic BH3-Only Proteins DP5 and PUMA in Human Pancreatic Î²-Cells. Diabetes, 2017, 66, 100-112.	0.6	87
30	FGF-2b and h-PL Transform Duct and Non-Endocrine Human Pancreatic Cells into Endocrine Insulin Secreting Cells by Modulating Differentiating Genes. International Journal of Molecular Sciences, 2017, 18, 2234.	4.1	13
31	Pancreatic Beta Cell Identity in Humans and the Role of Type 2 Diabetes. Frontiers in Cell and Developmental Biology, 2017, 5, 55.	3.7	67
32	Co-localization of acinar markers and insulin in pancreatic cells of subjects with type 2 diabetes. PLoS ONE, 2017, 12, e0179398.	2.5	17
33	Phenylpropenoic Acid Glucoside from Rooibos Protects Pancreatic Beta Cells against Cell Death Induced by Acute Injury. PLoS ONE, 2016, 11, e0157604.	2.5	28
34	Ubiquitin D Regulates IRE1Î±/c-Jun N-terminal Kinase (JNK) Protein-dependent Apoptosis in Pancreatic Beta Cells. Journal of Biological Chemistry, 2016, 291, 12040-12056.	3.4	44
35	Beta Cell Hubs Dictate Pancreatic Islet Responses toÂGlucose. Cell Metabolism, 2016, 24, 389-401.	16.2	370
36	Glucolipotoxicity initiates pancreatic Î²-cell death through TNFR5/CD40-mediated STAT1 and NF-ÎºB activation. Cell Death and Disease, 2016, 7, e2329-e2329.	6.3	34

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37	Thrombospondin 1 protects pancreatic Î²-cells from lipotoxicity via the PERKâ€“NRF2 pathway. Cell Death and Differentiation, 2016, 23, 1995-2006.	11.2	56
38	In vitro use of free fatty acids bound to albumin: A comparison of protocols. BioTechniques, 2015, 58, 228-33.	1.8	63
39	Glucagon-like peptide 1 protects INS-1E mitochondria against palmitate-mediated beta-cell dysfunction: a proteomic study. Molecular BioSystems, 2015, 11, 1696-1707.	2.9	19
40	Labeling and Tracking of Human Pancreatic Islets Using Carbon Nanotubes. Journal of Biomedical Nanotechnology, 2015, 11, 730-738.	1.1	6
41	Cytokines induce endoplasmic reticulum stress in human, rat and mouse beta cells via different mechanisms. Diabetologia, 2015, 58, 2307-2316.	6.3	181
42	A red-shifted photochromic sulfonylurea for the remote control of pancreatic beta cell function. Chemical Communications, 2015, 51, 6018-6021.	4.1	49
43	The p66Shc redox adaptor protein is induced by saturated fatty acids and mediates lipotoxicity-induced apoptosis in pancreatic beta cells. Diabetologia, 2015, 58, 1260-1271.	6.3	40
44	Mast cells infiltrate pancreatic islets in human type 1 diabetes. Diabetologia, 2015, 58, 2554-2562.	6.3	46
45	MicroRNA-124a is hyperexpressed in type 2 diabetic human pancreatic islets and negatively regulates insulin secretion. Acta Diabetologica, 2015, 52, 523-530.	2.5	127
46	The Î²-Cell in Human Type 2 Diabetes. , 2015, , 801-815.		0
47	Incretin-Modulated Beta Cell Energetics in Intact Islets of Langerhans. Molecular Endocrinology, 2014, 28, 860-871.	3.7	66
48	Administering 25-hydroxyvitamin D3 in vitamin D-deficient young type 1A diabetic patients reduces reactivity against islet autoantigens. Clinical Nutrition, 2014, 33, 1153-1156.	5.0	18
49	Are we overestimating the loss of beta cells in type 2 diabetes?. Diabetologia, 2014, 57, 362-365.	6.3	115
50	RNA Sequencing Identifies Dysregulation of the Human Pancreatic Islet Transcriptome by the Saturated Fatty Acid Palmitate. Diabetes, 2014, 63, 1978-1993.	0.6	226
51	Optical control of insulin release using a photoswitchable sulfonylurea. Nature Communications, 2014, 5, 5116.	12.8	106
52	ADCY5 Couples Glucose to Insulin Secretion in Human Islets. Diabetes, 2014, 63, 3009-3021.	0.6	124
53	Mitochondrial and ER-Targeted eCALWY Probes Reveal High Levels of Free Zn²⁺. ACS Chemical Biology, 2014, 9, 2111-2120.	3.4	102
54	Discovery of Molecular Pathways Mediating 1,25-Dihydroxyvitamin D3 Protection Against Cytokine-Induced Inflammation and Damage of Human and Male Mouse Islets of Langerhans. Endocrinology, 2014, 155, 736-747.	2.8	45

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55	JunB protects Î²-cells from lipotoxicity via the XBP1â€“AKT pathway. Cell Death and Differentiation, 2014, 21, 1313-1324.	11.2	37
56	Prevention by metformin of alterations induced by chronic exposure to high glucose in human islet beta cells is associated with preserved ATP/ADP ratio. Diabetes Research and Clinical Practice, 2014, 104, 163-170.	2.8	45
57	The Î²-Cell in Human Type 2 Diabetes. , 2014, , 1-13.		0
58	Sirtuin 3 regulates mouse pancreatic beta cell function and is suppressed in pancreatic islets isolated from human type 2 diabetic patients. Diabetologia, 2013, 56, 1068-1077.	6.3	101
59	Direct effects of rosuvastatin on pancreatic human beta cells. Acta Diabetologica, 2013, 50, 983-985.	2.5	9
60	The Pancreatic Î² Cells in Human Type 2 Diabetes. Advances in Experimental Medicine and Biology, 2013, 771, 288-309.	1.6	49
61	Microarray analysis of isolated human islet transcriptome in type 2 diabetes and the role of the ubiquitinâ€“proteasome system in pancreatic beta cell dysfunction. Molecular and Cellular Endocrinology, 2013, 367, 1-10.	3.2	76
62	Glucagon-Like Peptide-1 Protects Human Islets against Cytokine-Mediated Î²-Cell Dysfunction and Death: A Proteomic Study of the Pathways Involved. Journal of Proteome Research, 2013, 12, 4193-4206.	3.7	27
63	<i>Î²</i>â€Cell inflammation in human type 2 diabetes and the role of autophagy. Diabetes, Obesity and Metabolism, 2013, 15, 130-136.	4.4	52
64	Lipotoxicity disrupts incretin-regulated human Î² cell connectivity. Journal of Clinical Investigation, 2013, 123, 4182-4194.	8.2	203
65	From genotype to human Î² cell phenotype and beyond. Islets, 2012, 4, 323-332.	1.8	11
66	Age- and diet-dependent requirement of DJ-1 for glucose homeostasis in mice with implications for human type 2 diabetes. Journal of Molecular Cell Biology, 2012, 4, 221-230.	3.3	96
67	A local glucagon-like peptide 1 (GLP-1) system in human pancreatic islets. Diabetologia, 2012, 55, 3262-3272.	6.3	208
68	Ultrastructural morphometric analysis of insulin secretory granules in human type 2 diabetes. Acta Diabetologica, 2012, 49, 247-252.	2.5	39
69	DNA methylation profiling identifies epigenetic dysregulation in pancreatic islets from type 2 diabetic patients. EMBO Journal, 2012, 31, 1405-1426.	7.8	355
70	Palmitate Activates Autophagy in INS-1E Î²-Cells and in Isolated Rat and Human Pancreatic Islets. PLoS ONE, 2012, 7, e36188.	2.5	116
71	Per-arnt-sim (PAS) domain-containing protein kinase is downregulated in human islets in type 2 diabetes and regulates glucagon secretion. Diabetologia, 2011, 54, 819-827.	6.3	46
72	Class II Phosphoinositide 3-Kinase Regulates Exocytosis of Insulin Granules in Pancreatic Î² Cells. Journal of Biological Chemistry, 2011, 286, 4216-4225.	3.4	130

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73	Pleiotropic Effects of GIP on Islet Function Involve Osteopontin. Diabetes, 2011, 60, 2424-2433.	0.6	83
74	Histopathology and ex vivo insulin secretion of pancreatic islets in gestational diabetes: A case report. Islets, 2011, 3, 231-233.	1.8	8
75	The Î²-Cell in Human Type 2 Diabetes. Advances in Experimental Medicine and Biology, 2010, 654, 501-514.	1.6	54
76	Enhanced Signaling Downstream of Ribonucleic Acid-Dependent Protein Kinase-Like Kinase Potentiates Lipotoxic Endoplasmic Reticulum Stress in Human Islets. Molecular Endocrinology, 2010, 24, 470-470.	3.7	0
77	EuroDia: a beta-cell gene expression resource. Database: the Journal of Biological Databases and Curation, 2010, 2010, baq024-baq024.	3.0	9
78	Enhanced Signaling Downstream of Ribonucleic Acid-Activated Protein Kinase-Like Endoplasmic Reticulum Kinase Potentiates Lipotoxic Endoplasmic Reticulum Stress in Human Islets. Journal of Clinical Endocrinology and Metabolism, 2010, 95, 1442-1449.	3.6	52
79	Genetic and Functional Assessment of the Role of the rs13431652-A and rs573225-A Alleles in the <i>G6PC2</i> Promoter That Are Strongly Associated With Elevated Fasting Glucose Levels. Diabetes, 2010, 59, 2662-2671.	0.6	31
80	G-protein-coupled receptor 40 (GPR40) expression and its regulation in human pancreatic islets: The role of type 2 diabetes and fatty acids. Nutrition, Metabolism and Cardiovascular Diseases, 2010, 20, 22-25.	2.6	56
81	Type 2 Diabetes Susceptibility Gene Expression in Normal or Diabetic Sorted Human Alpha and Beta Cells: Correlations with Age or BMI of Islet Donors. PLoS ONE, 2010, 5, e11053.	2.5	47
82	The direct effects of tacrolimus and cyclosporin A on isolated human islets: A functional, survival and gene expression study. Islets, 2009, 1, 106-110.	1.8	33
83	A role for autophagy in Î²-cell life and death. Islets, 2009, 1, 157-159.	1.8	15
84	PTPN2, a Candidate Gene for Type 1 Diabetes, Modulates Interferon-Î³â€"Induced Pancreatic Î²-Cell Apoptosis. Diabetes, 2009, 58, 1283-1291.	0.6	152
85	Goals of Treatment for Type 2 Diabetes: Â-Cell preservation for glycemic control. Diabetes Care, 2009, 32, S178-S183.	8.6	53
86	Common variant in MTNR1B associated with increased risk of type 2 diabetes and impaired early insulin secretion. Nature Genetics, 2009, 41, 82-88.	21.4	642
87	Apoptotic, Regenerative, And Immune-Related Signaling in Human Islets from Type 2 Diabetes Individuals. Journal of Proteome Research, 2009, 8, 5650-5656.	3.7	32
88	Effects of exposure of human islet beta-cells to normal and high glucose levels with or without gliclazide or glibenclamide. Diabetes and Metabolism, 2009, 35, 293-298.	2.9	18
89	Autophagy in human type 2 diabetes pancreatic beta cells. Diabetologia, 2009, 52, 1083-1086.	6.3	311
90	Effects of exendinâ€4 on islets from type 2 diabetes patients. Diabetes, Obesity and Metabolism, 2008, 10, 515-519.	4.4	44

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91	Beneficial Effect of the Nonpeptidyl Low Molecular Weight Radical Scavenger IAC on Cultured Human Islet Function. Cell Transplantation, 2008, 17, 1271-1276.	2.5	13
92	Effects of C-peptide on isolated human pancreatic islet cells. Diabetes/Metabolism Research and Reviews, 2007, 23, 215-219.	4.0	19
93	Gliclazide protects human islet beta-cells from apoptosis induced by intermittent high glucose. Diabetes/Metabolism Research and Reviews, 2007, 23, 234-238.	4.0	103
94	The endoplasmic reticulum in pancreatic beta cells of type 2 diabetes patients. Diabetologia, 2007, 50, 2486-2494.	6.3	361
95	Transcription factors of beta-cell differentiation and maturation in isolated human islets: Effects of high glucose, high free fatty acids and type 2 diabetes. Nutrition, Metabolism and Cardiovascular Diseases, 2006, 16, e7-e8.	2.6	9
96	The direct effects of the angiotensin-converting enzyme inhibitors, zofenoprilat and enalaprilat, on isolated human pancreatic islets. European Journal of Endocrinology, 2006, 154, 355-361.	3.7	80
97	Is There a Role for Locally Produced Interleukin-1 in the Deleterious Effects of High Glucose or the Type 2 Diabetes Milieu to Human Pancreatic Islets?. Diabetes, 2005, 54, 3238-3244.	0.6	118
98	Hepatitis C Virus Infection and Human Pancreatic Â-Cell Dysfunction. Diabetes Care, 2005, 28, 940-941.	8.6	113
99	Functional and Molecular Defects of Pancreatic Islets in Human Type 2 Diabetes. Diabetes, 2005, 54, 727-735.	0.6	421
100	Pancreatic Islets from Type 2 Diabetic Patients Have Functional Defects and Increased Apoptosis That Are Ameliorated by Metformin. Journal of Clinical Endocrinology and Metabolism, 2004, 89, 5535-5541.	3.6	304
101	Improved insulin secretory function and reduced chemotactic properties after tissue culture of islets from type 1 diabetic patients. Diabetes/Metabolism Research and Reviews, 2004, 20, 246-251.	4.0	21
102	An alternative and simple method to consistently prepare viable isolated human islets for clinical transplantation. Transplantation Proceedings, 2004, 36, 605-606.	0.6	5
103	Rosiglitazone prevents the impairment of human islet function induced by fatty acids: evidence for a role of PPARÎ³₂ in the modulation of insulin secretion. American Journal of Physiology - Endocrinology and Metabolism, 2004, 286, E560-E567.	3.5	134