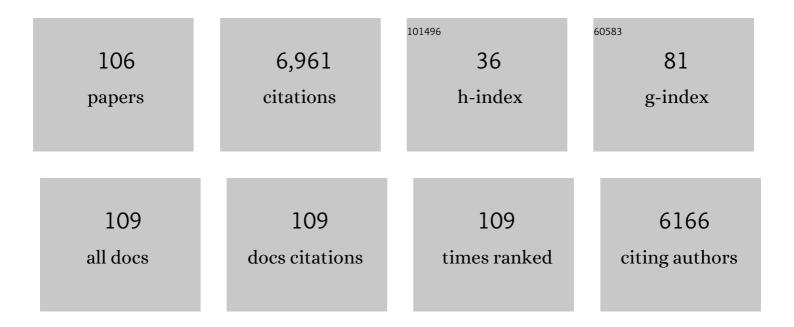
## **Richard D Dimarchi**

List of Publications by Year in descending order

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**РІСНАРО О ОІМАРСНІ** 

#	Article	IF	CITATIONS
1	Anti-obesity drug discovery: advances and challenges. Nature Reviews Drug Discovery, 2022, 21, 201-223.	21.5	357
2	Peptide Model of the Mutant Proinsulin Syndrome. II. Nascent Structure and Biological Implications. Frontiers in Endocrinology, 2022, 13, 821091.	1.5	2
3	Recent Advances in Incretin-Based Pharmacotherapies for the Treatment of Obesity and Diabetes. Frontiers in Endocrinology, 2022, 13, 838410.	1.5	42
4	Peptide Model of the Mutant Proinsulin Syndrome. I. Design and Clinical Correlation. Frontiers in Endocrinology, 2022, 13, 821069.	1.5	3
5	Efficacy of glucagon-like peptide-1 and estrogen dual agonist in pancreatic islets protection and pre-clinical models of insulin-deficient diabetes. Cell Reports Medicine, 2022, 3, 100598.	3.3	6
6	Zn-regulated GTPase metalloprotein activator 1 modulates vertebrate zinc homeostasis. Cell, 2022, 185, 2148-2163.e27.	13.5	39
7	Next generation GLP-1/GIP/glucagon triple agonists normalize body weight in obese mice. Molecular Metabolism, 2022, 63, 101533.	3.0	43
8	Plasma proteome profiles treatment efficacy of incretin dual agonism in dietâ€ <del>i</del> nduced obese female and male mice. Diabetes, Obesity and Metabolism, 2021, 23, 195-207.	2.2	12
9	Identification of a second Klotho interaction site in the C terminus of FGF23. Cell Reports, 2021, 34, 108665.	2.9	12
10	Glucagon-receptor signaling regulates weight loss via central KLB receptor complexes. JCI Insight, 2021, 6, .	2.3	8
11	Advances in the treatment of metabolic diseases. Molecular Metabolism, 2021, 46, 101208.	3.0	1
12	Optimization of Truncated Glucagon Peptides to Achieve Selective, High Potency, Full Antagonists. Journal of Medicinal Chemistry, 2021, 64, 4697-4708.	2.9	12
13	The glucose-dependent insulinotropic polypeptide (GIP) regulates body weight and food intake via CNS-GIPR signaling. Cell Metabolism, 2021, 33, 833-844.e5.	7.2	128
14	Icodec Advances the Prospect of Once-Weekly Insulin Injection. Journal of Medicinal Chemistry, 2021, 64, 8939-8941.	2.9	4
15	Spatiotemporal GLP-1 and GIP receptor signaling and trafficking/recycling dynamics induced by selected receptor mono- and dual-agonists. Molecular Metabolism, 2021, 49, 101181.	3.0	39
16	A Facile Procedure for One-Pot Stable Conjugation of Two Proglucagon Cysteine-Containing Peptide Analogs. Frontiers in Endocrinology, 2021, 12, 693958.	1.5	1
17	A viral insulin-like peptide is a natural competitive antagonist of the human IGF-1 receptor. Molecular Metabolism, 2021, 53, 101316.	3.0	9
18	Neurotrophic and neuroprotective effects of a monomeric GLP-1/GIP/Gcg receptor triagonist in cellular and rodent models of mild traumatic brain injury. Experimental Neurology, 2020, 324, 113113.	2.0	16

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19	Structural Refinement of Glucagon for Therapeutic Use. Journal of Medicinal Chemistry, 2020, 63, 3447-3460.	2.9	12
20	Selection and progression of unimolecular agonists at the CIP, GLP-1, and glucagon receptors as drug candidates. Peptides, 2020, 125, 170225.	1.2	30
21	Smarter Modeling to Enable a Smarter Insulin. Diabetes, 2020, 69, 1608-1610.	0.3	8
22	Optimization of Peptide Inhibitors of β-Klotho as Antagonists of Fibroblast Growth Factors 19 and 21. ACS Pharmacology and Translational Science, 2020, 3, 978-986.	2.5	5
23	Insights into incretin-based therapies for treatment of diabetic dyslipidemia. Advanced Drug Delivery Reviews, 2020, 159, 34-53.	6.6	21
24	Addition of Sialic Acid to Insulin Confers Superior Physical Properties and Bioequivalence. Journal of Medicinal Chemistry, 2020, 63, 6134-6143.	2.9	11
25	Recent advances in the chemical synthesis of insulin and related peptides. Future Medicinal Chemistry, 2020, 12, 649-654.	1.1	3
26	MS-275, a class 1 histone deacetylase inhibitor augments glucagon-like peptide-1 receptor agonism to improve glycemic control and reduce obesity in diet-induced obese mice. ELife, 2020, 9, .	2.8	10
27	Insulin-like peptide 5 fails to improve metabolism or body weight in obese mice. Peptides, 2019, 120, 170116.	1.2	9
28	A Disulfide Scan of Insulin by [3 + 1] Methodology Exhibits Site-Specific Influence on Bioactivity. ACS Chemical Biology, 2019, 14, 1829-1835.	1.6	10
29	Peptide Conjugates with Small Molecules Designed to Enhance Efficacy and Safety. Molecules, 2019, 24, 1855.	1.7	68
30	A Brain-Melanocortin-Vagus Axis Mediates Adipose Tissue Expansion Independently of Energy Intake. Cell Reports, 2019, 27, 2399-2410.e6.	2.9	20
31	Stereochemical inversion as a route to improved biophysical properties of therapeutic peptides exemplified by glucagon. Communications Chemistry, 2019, 2, .	2.0	11
32	Long-Acting Neurotensin Synergizes With Liraglutide to Reverse Obesity Through a Melanocortin-Dependent Pathway. Diabetes, 2019, 68, 1329-1340.	0.3	33
33	GLP-1/dexamethasone inhibits food reward without inducing mood and memory deficits in mice. Neuropharmacology, 2019, 151, 55-63.	2.0	15
34	Gut Peptide Agonism in the Treatment of Obesity and Diabetes. , 2019, 10, 99-124.		4
35	Optimized GIP analogs promote body weight lowering in mice through GIPR agonism not antagonism. Molecular Metabolism, 2019, 20, 51-62.	3.0	130
36	Emerging hormonal-based combination pharmacotherapies for the treatment of metabolic diseases. Nature Reviews Endocrinology, 2019, 15, 90-104.	4.3	92

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37	The islet-expressed Lhx1 transcription factor interacts with Islet-1 and contributes to glucose homeostasis. American Journal of Physiology - Endocrinology and Metabolism, 2019, 316, E397-E409.	1.8	11
38	CNS-targeting pharmacological interventions for the metabolic syndrome. Journal of Clinical Investigation, 2019, 129, 4058-4071.	3.9	24
39	Neuroprotective Effects and Treatment Potential of Incretin Mimetics in a Murine Model of Mild Traumatic Brain Injury. Frontiers in Cell and Developmental Biology, 2019, 7, 356.	1.8	29
40	Structurally Constrained Insulin Analogs by Directed Stepwise Crosslinking. Protein and Peptide Letters, 2019, 25, 1149-1154.	0.4	0
41	OR28-5 Bile Acid Sequestration Accelerates Glucagon Receptor-Mediated Body Weight Loss in Obese Mice. Journal of the Endocrine Society, 2019, 3, .	0.1	Ο
42	Viral insulin-like peptides activate human insulin and IGF-1 receptor signaling: A paradigm shift for host–microbe interactions. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2461-2466.	3.3	63
43	Synthesis and Characterization of the R27S Genetic Variant of Insulinâ€like Peptide 5. ChemMedChem, 2018, 13, 852-859.	1.6	4
44	Controlled intramolecular antagonism as a regulator of insulin receptor maximal activity. Peptides, 2018, 100, 18-23.	1.2	6
45	Max Bergmann award lecture:Macromolecular medicinal chemistry as applied to metabolic diseases. Journal of Peptide Science, 2018, 24, e3056.	0.8	1
46	Optimization of peptide-based polyagonists for treatment of diabetes and obesity. Bioorganic and Medicinal Chemistry, 2018, 26, 2873-2881.	1.4	18
47	Targeting the Incretin/Glucagon System With Triagonists to Treat Diabetes. Endocrine Reviews, 2018, 39, 719-738.	8.9	113
48	"Let's Stay Togetherâ€; GIP and GLP-1 dual agonism in the treatment of metabolic disease. Molecular Metabolism, 2018, 18, 1-2.	3.0	8
49	Hepatic Glucagon Receptor Signaling Enhances Insulin-Stimulated Glucose Disposal in Rodents. Diabetes, 2018, 67, 2157-2166.	0.3	44
50	Deletion of the glucagon receptor gene before and after experimental diabetes reveals differential protection from hyperglycemia. Molecular Metabolism, 2018, 17, 28-38.	3.0	17
51	Metabolic syndrome and extensive adipose tissue inflammation in morbidly obese Göttingen minipigs. Molecular Metabolism, 2018, 16, 180-190.	3.0	41
52	An incretin-based tri-agonist promotes superior insulin secretion from murine pancreatic islets via PLC activation. Cellular Signalling, 2018, 51, 13-22.	1.7	13
53	Synthesis of disulfide-rich heterodimeric peptides through an auxiliary N, N-crosslink. Communications Chemistry, 2018, 1, .	2.0	10
54	Molecular elements in FGF19 and FGF21 defining KLB/FGFR activity and specificity. Molecular Metabolism, 2018, 13, 45-55.	3.0	36

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55	High-Yield Synthesis of Human Insulin-Like Peptide 5 Employing a Nonconventional Strategy. Organic Letters, 2018, 20, 3695-3699.	2.4	8
56	Novel GLP-1R/GIPR co-agonist "twincretin―is neuroprotective in cell and rodent models of mild traumatic brain injury. Experimental Neurology, 2017, 288, 176-186.	2.0	34
57	Biomimetic Synthesis of Insulin Enabled by Oxime Ligation and Traceless "C-Peptide―Chemical Excision. Organic Letters, 2017, 19, 706-709.	2.4	20
58	Synthesis of relaxinâ€2 and insulinâ€like peptide 5 enabled by novel tethering and traceless chemical excision. Journal of Peptide Science, 2017, 23, 455-465.	0.8	13
59	Single-Molecule Combinatorial Therapeutics for Treating Obesity and Diabetes. Diabetes, 2017, 66, 1766-1769.	0.3	25
60	Monomeric GLP-1/GIP/glucagon triagonism corrects obesity, hepatosteatosis, and dyslipidemia in female mice. Molecular Metabolism, 2017, 6, 440-446.	3.0	87
61	Synthesis of Four-Disulfide Insulin Analogs via Sequential Disulfide Bond Formation. Journal of Organic Chemistry, 2017, 82, 3506-3512.	1.7	29
62	Emerging Polyâ€Agonists for Obesity and Type 2 Diabetes. Obesity, 2017, 25, 1647-1649.	1.5	7
63	Molecular Integration of Incretin and Glucocorticoid Action Reverses Immunometabolic Dysfunction and Obesity. Cell Metabolism, 2017, 26, 620-632.e6.	7.2	66
64	Pharmacodynamics, pharmacokinetics and safety of multiple ascending doses of the novel dual glucoseâ€dependent insulinotropic polypeptide/glucagonâ€like peptideâ€1 agonist <scp>RG</scp> 7697 in people with type 2 diabetes mellitus. Diabetes, Obesity and Metabolism, 2017, 19, 1436-1445.	2.2	63
65	GLP-1/glucagon receptor co-agonism for treatment of obesity. Diabetologia, 2017, 60, 1851-1861.	2.9	126
66	Synthetic Advances in Insulin-like Peptides Enable Novel Bioactivity. Accounts of Chemical Research, 2017, 50, 1855-1865.	7.6	15
67	The Sustained Effects of a Dual GIP/GLP-1 Receptor Agonist, NNC0090-2746, in Patients with Type 2 Diabetes. Cell Metabolism, 2017, 26, 343-352.e2.	7.2	238
68	Once Blind, Now We See GLP-1 Molecular Action. Cell Metabolism, 2017, 26, 289-291.	7.2	3
69	Gαs regulates Glucagon-Like Peptide 1 Receptor-mediated cyclic AMP generation atÂRab5 endosomal compartment. Molecular Metabolism, 2017, 6, 1173-1185.	3.0	33
70	Pharmacodynamics, pharmacokinetics, safety and tolerability of the novel dual glucoseâ€dependent insulinotropic polypeptide/glucagonâ€like peptideâ€1 agonist <scp>RG</scp> 7697 after single subcutaneous administration in healthy subjects. Diabetes, Obesity and Metabolism, 2017, 19, 1446-1453.	2.2	39
71	Unimolecular Polypharmacy for Treatment of Diabetes and Obesity. Cell Metabolism, 2016, 24, 51-62.	7.2	198
72	Chemical synthesis of peptides within the insulin superfamily. Journal of Peptide Science, 2016, 22, 260-270.	0.8	41

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73	Chemical Synthesis of Human Insulin‣ike Peptideâ€6. Chemistry - A European Journal, 2016, 22, 9777-9783.	1.7	13
74	Reappraisal of GIP Pharmacology for Metabolic Diseases. Trends in Molecular Medicine, 2016, 22, 359-376.	3.5	128
75	Fibroblast activation protein (FAP) as a novel metabolic target. Molecular Metabolism, 2016, 5, 1015-1024.	3.0	56
76	Chemical Hybridization of Glucagon and Thyroid Hormone Optimizes Therapeutic Impact for Metabolic Disease. Cell, 2016, 167, 843-857.e14.	13.5	153
77	Pyridyl-alanine as a Hydrophilic, Aromatic Element in Peptide Structural Optimization. Journal of Medicinal Chemistry, 2016, 59, 8061-8067.	2.9	11
78	GLP-1 and estrogen conjugate acts in the supramammillary nucleus to reduce food-reward and body weight. Neuropharmacology, 2016, 110, 396-406.	2.0	60
79	Synthetic Route to Human Relaxin-2 via Iodine-Free Sequential Disulfide Bond Formation. Organic Letters, 2016, 18, 5516-5519.	2.4	16
80	Native Design of Soluble, Aggregation-Resistant Bioactive Peptides: Chemical Evolution of Human Glucagon. ACS Chemical Biology, 2016, 11, 3412-3420.	1.6	8
81	Pursuit of a perfect insulin. Nature Reviews Drug Discovery, 2016, 15, 425-439.	21.5	205
82	Effect of targeted estrogen delivery using glucagon-like peptide-1 on insulin secretion, insulin secretion, insulin sensitivity and glucose homeostasis. Scientific Reports, 2015, 5, 10211.	1.6	32
83	A new quorumâ€sensing system ( <scp>TprA</scp> / <scp>PhrA</scp> ) for <scp><i>S</i></scp> <i>treptococcus pneumoniae</i> â€ <scp>D</scp> 39 that regulates a lantibiotic biosynthesis gene cluster. Molecular Microbiology, 2015, 97, 229-243.	1.2	78
84	Current and Emerging Treatment Options in Diabetes Care. Handbook of Experimental Pharmacology, 2015, 233, 437-459.	0.9	20
85	FGF21 Revolutions: Recent Advances Illuminating FGF21 Biology and Medicinal Properties. Trends in Endocrinology and Metabolism, 2015, 26, 608-617.	3.1	98
86	A rationally designed monomeric peptide triagonist corrects obesity and diabetes in rodents. Nature Medicine, 2015, 21, 27-36.	15.2	481
87	GLP-1/Glucagon Coagonism Restores Leptin Responsiveness in Obese Mice Chronically Maintained on an Obesogenic Diet. Diabetes, 2014, 63, 1422-1427.	0.3	116
88	A glucagon analog chemically stabilized for immediate treatment of life-threatening hypoglycemia. Molecular Metabolism, 2014, 3, 293-300.	3.0	33
89	Chemical Synthesis of Insulin Analogs through a Novel Precursor. ACS Chemical Biology, 2014, 9, 683-691.	1.6	38
90	Break on Through to the Other 1. Cell Metabolism, 2014, 20, 554-555.	7.2	3

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91	Unimolecular Dual Incretins Maximize Metabolic Benefits in Rodents, Monkeys, and Humans. Science Translational Medicine, 2013, 5, 209ra151.	5.8	461
92	Peptide lipidation stabilizes structure to enhance biological function. Molecular Metabolism, 2013, 2, 468-479.	3.0	83
93	Fibroblast Growth Factor 21 Mediates Specific Glucagon Actions. Diabetes, 2013, 62, 1453-1463.	0.3	191
94	FGF21 Analogs of Sustained Action Enabled by Orthogonal Biosynthesis Demonstrate Enhanced Antidiabetic Pharmacology in Rodents. Diabetes, 2012, 61, 505-512.	0.3	148
95	Optimization of coâ€agonism at GLPâ€1 and glucagon receptors to safely maximize weight reduction in DIOâ€rodents. Biopolymers, 2012, 98, 443-450.	1.2	110
96	Targeted estrogen delivery reverses the metabolic syndrome. Nature Medicine, 2012, 18, 1847-1856.	15.2	241
97	Restoration of leptin responsiveness in dietâ€induced obese mice using an optimized leptin analog in combination with exendinâ€4 or FGF21. Journal of Peptide Science, 2012, 18, 383-393.	0.8	133
98	Optimization of the Native Glucagon Sequence for Medicinal Purposes. Journal of Diabetes Science and Technology, 2010, 4, 1322-1331.	1.3	53
99	<i>In Vitro</i> and <i>in Vivo</i> Evaluation of Native Glucagon and Glucagon Analog (MAR-D28) during Aging: Lack of Cytotoxicity and Preservation of Hyperglycemic Effect. Journal of Diabetes Science and Technology, 2010, 4, 1311-1321.	1.3	20
100	The metabolic actions of glucagon revisited. Nature Reviews Endocrinology, 2010, 6, 689-697.	4.3	292
101	A new glucagon and GLP-1 co-agonist eliminates obesity in rodents. Nature Chemical Biology, 2009, 5, 749-757.	3.9	512
102	Investigation of the Feasibily of an Amide-based Prodrug Under Physiological Conditions. International Journal of Peptide Research and Therapeutics, 2008, 14, 255-262.	0.9	7
103	Insulin structure and function. Biopolymers, 2007, 88, 687-713.	1.2	169
104	Design, synthesis and crystallization of a novel glucagon analog as a therapeutic agent. Acta Crystallographica Section F: Structural Biology Communications, 2007, 63, 599-601.	0.7	13
105	Leptin: Structure, Function and Biology. Vitamins and Hormones, 2005, 71, 345-372.	0.7	259
106	Myoglobin semisynthesis: removal of the amino-terminal valine of sperm whale myoglobin and its subsequent reincorporation. Biochemistry, 1979, 18, 3101-3109.	1.2	10