

Ho-Leung Fung

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109
papers

2,977
citations

29
h-index

51
g-index

110
ext. papers

3,095
ext. citations

4.2
avg, IF

4.85
L-index

#	Paper	IF	Citations
109	Oral isosorbide dinitrate in angina pectoris: comparison of duration of action an dose-response relation during acute and sustained therapy. <i>American Journal of Cardiology</i> , 1982 , 49, 411-9	3	293
108	Transdermal nitroglycerin in angina pectoris. <i>American Journal of Cardiology</i> , 1984 , 54, 471-6	3	254
107	Transdermal isosorbide dinitrate in angina pectoris: effect of acute and sustained therapy. <i>American Journal of Cardiology</i> , 1984 , 54, 8-13	3	109
106	Biochemical mechanism of nitroglycerin action and tolerance: is this old mystery solved?. <i>Annual Review of Pharmacology and Toxicology</i> , 2004 , 44, 67-85	17.9	108
105	Nitroglycerin pharmacokinetics after intravenous infusion in normal subjects. <i>Journal of Pharmaceutical Sciences</i> , 1981 , 70, 1054-8	3.9	98
104	Biochemical mechanism of organic nitrate action. <i>American Journal of Cardiology</i> , 1992 , 70, 4B-10B	3	87
103	Mechanisms of nitrate tolerance. <i>Cardiovascular Drugs and Therapy</i> , 1994 , 8, 489-99	3.9	83
102	Pharmacokinetic determinants of nitrate action. <i>American Journal of Medicine</i> , 1984 , 76, 22-6	2.4	76
101	Intestinal and hemodynamic impairment following mesenteric ischemia/reperfusion. <i>Journal of Surgical Research</i> , 2001 , 99, 114-9	2.5	63
100	Improved GLC determination of plasma nitroglycerin concentrations. <i>Journal of Pharmaceutical Sciences</i> , 1978 , 67, 582-4	3.9	63
99	Absorption of sodium gamma-hydroxybutyrate and its prodrug gamma-butyrolactone: relationship between in vitro transport and in vivo absorption. <i>Journal of Pharmaceutical Sciences</i> , 1980 , 69, 356-8	3.9	61
98	Simultaneous bioanalysis of L-arginine, L-citrulline, and dimethylarginines by LC-MS/MS. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011 , 879, 467-74	3.2	53
97	Calcitonin gene-related peptide-dependent vascular relaxation of rat aorta. An additional mechanism for nitroglycerin. <i>Biochemical Pharmacology</i> , 2000 , 59, 1603-9	6	52
96	Tolerance to relaxation in rat aorta: comparison of an S-nitrosothiol with nitroglycerin. <i>European Journal of Pharmacology</i> , 1987 , 144, 379-83	5.3	50
95	Clinical pharmacology of organic nitrates. <i>American Journal of Cardiology</i> , 1993 , 72, 9C-13C; discussion 14C-15C	3	48
94	Biochemical characterization of a membrane-bound enzyme responsible for generating nitric oxide from nitroglycerin in vascular smooth muscle cells. <i>Biochemical Pharmacology</i> , 1993 , 46, 1481-6	6	46
93	The effect of dose on the disposition of lead in rats after intravenous and oral administration. <i>Toxicology and Applied Pharmacology</i> , 1981 , 61, 48-57	4.6	45

92	Pharmacokinetics of nitroglycerin and long-acting nitrate esters. <i>American Journal of Medicine</i> , 1983 , 74, 13-20	2.4	43
91	Pharmacokinetics of nitroglycerin in rats. <i>Journal of Pharmaceutical Sciences</i> , 1978 , 67, 584-6	3.9	40
90	Intracellular L-arginine concentration does not determine NO production in endothelial cells: implications on the "L-arginine paradox". <i>Biochemical and Biophysical Research Communications</i> , 2011 , 414, 660-3	3.4	39
89	Evaluation and development of gas chromatographic procedures for the determination of gamma-hydroxybutyric acid and gamma-butyrolactone in plasma. <i>Biochemical Medicine</i> , 1978 , 20, 70-80		39
88	Pharmacodynamic models of nitroglycerin-induced hemodynamic tolerance in experimental heart failure. <i>Pharmaceutical Research</i> , 1994 , 11, 816-23	4.5	36
87	Use of an in vitro model for the assessment of muscle damage from intramuscular injections: in vitro-in vivo correlation and predictability with mixed solvent systems. <i>Pharmaceutical Research</i> , 1989 , 6, 766-71	4.5	36
86	Pharmacokinetics and pharmacodynamics of organic nitrates. <i>American Journal of Cardiology</i> , 1987 , 60, 4H-9H	3	35
85	Nitric oxide donors: biochemical pharmacology and therapeutics. <i>Advances in Pharmacology</i> , 1995 , 34, 361-81	5.7	33
84	Comparison of methods for analyzing kinetic data from mechanism-based enzyme inactivation: application to nitric oxide synthase. <i>AAPS PharmSci</i> , 2000 , 2, E8		32
83	An in vitro model to evaluate muscle damage following intramuscular injections. <i>Pharmaceutical Research</i> , 1989 , 6, 167-70	4.5	31
82	Attenuated nitric oxide synthase activity and protein expression accompany intestinal ischemia/reperfusion injury in rats. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 269, 160-4	3.4	30
81	Lack of critical involvement of endothelial nitric oxide synthase in vascular nitrate tolerance in mice. <i>British Journal of Pharmacology</i> , 2002 , 135, 299-302	8.6	29
80	Pharmacokinetics, plasma protein binding and urinary excretion of N omega-nitro-L-arginine in rats. <i>British Journal of Pharmacology</i> , 1994 , 111, 394-6	8.6	29
79	Continuous exposure to L-arginine induces oxidative stress and physiological tolerance in cultured human endothelial cells. <i>Amino Acids</i> , 2012 , 43, 1179-88	3.5	28
78	A common enzyme may be responsible for the conversion of organic nitrates to nitric oxide in vascular microsomes. <i>Biochemical and Biophysical Research Communications</i> , 1992 , 185, 932-7	3.4	26
77	Kinetic characterization of in vitro lead transport across the rat small intestine: mechanism of intestinal lead transport. <i>Toxicology and Applied Pharmacology</i> , 1981 , 61, 39-47	4.6	26
76	Liquid chromatographic-mass spectrometric determination of endogenous gamma-hydroxybutyrate concentrations in rat brain regions and plasma. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2004 , 807, 287-91	3.2	25
75	Mechanisms of creatine kinase release from isolated rat skeletal muscles damaged by propylene glycol and ethanol. <i>Journal of Pharmaceutical Sciences</i> , 1990 , 79, 393-7	3.9	25

74	Dissociation of nitrovasodilator-induced relaxation from cyclic GMP levels during in vitro nitrate tolerance. <i>European Journal of Pharmacology</i> , 1990 , 176, 91-5	5.3	25
73	Dose-related Prolongation of the Bleeding Time by Intravenous Nitroglycerin. <i>Anesthesia and Analgesia</i> , 1985 , 64, 307-33	3.9	25
72	cDNA microarray analysis of vascular gene expression after nitric oxide donor infusions in rats: implications for nitrate tolerance mechanisms. <i>AAPS PharmSci</i> , 2002 , 4, E10		24
71	Mechanism-based partial inactivation of glutathione S-transferases by nitroglycerin: tyrosine nitration vs sulfhydryl oxidation. <i>Nitric Oxide - Biology and Chemistry</i> , 2003 , 8, 103-10	5	24
70	Sustained antiplatelet properties of nitroglycerin during hemodynamic tolerance in rats. <i>Journal of Cardiovascular Pharmacology</i> , 1996 , 28, 432-8	3.1	24
69	Nitroglycerin-inhibited whole blood aggregation is partially mediated by calcitonin gene-related peptide -- a neurogenic mechanism. <i>British Journal of Pharmacology</i> , 1997 , 122, 577-83	8.6	23
68	Pharmacologic and pharmacokinetic profile of repifermin (KGF-2) in monkeys and comparative pharmacokinetics in humans. <i>AAPS PharmSci</i> , 2002 , 4, E8		23
67	Beneficial effects of intraluminal nitroglycerin in intestinal ischemia-reperfusion injury in rats. <i>Journal of Surgical Research</i> , 2003 , 114, 15-24	2.5	23
66	Complexation of nifedipine with substituted phenolic ligands. <i>Pharmaceutical Research</i> , 1988 , 5, 655-9	4.5	23
65	Arterial versus venous metabolism of nitroglycerin to nitric oxide: a possible explanation of organic nitrate venoselectivity. <i>Journal of Cardiovascular Pharmacology</i> , 1996 , 28, 371-4	3.1	23
64	Tolerance: An Historical Overview. <i>American Journal of Cardiology</i> , 1998 , 81, 3A-14A	3	21
63	Photochemical generation of nitric oxide from nitro-containing compounds: possible relation to vascular photorelaxation phenomena. <i>Life Sciences</i> , 1994 , 54, PL1-4	6.8	20
62	Application of pharmacodynamic modeling for designing time-variant dosing regimens to overcome nitroglycerin tolerance in experimental heart failure. <i>Pharmaceutical Research</i> , 1997 , 14, 1140-5	4.5	19
61	Pharmacokinetics and pharmacodynamics of isosorbide dinitrate. <i>American Heart Journal</i> , 1985 , 110, 213-6	4.9	19
60	Pharmacokinetic-hemodynamic interactions between vasopressin and nitroglycerin: comparison between intravenous and cutaneous routes of nitrate delivery. <i>Hepatology</i> , 1985 , 5, 264-70	11.2	18
59	Role of glutaredoxin-mediated protein S-glutathionylation in cellular nitroglycerin tolerance. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009 , 329, 649-56	4.7	17
58	Effect of organic cosolvent-induced skeletal muscle damage on the bioavailability of intramuscular [¹⁴ C]diazepam. <i>Journal of Pharmaceutical Sciences</i> , 1990 , 79, 773-7	3.9	17
57	Metabolites decrease the plasma clearance of isosorbide dinitrate in rats. <i>Biopharmaceutics and Drug Disposition</i> , 1984 , 5, 85-9	1.7	17

56	Percutaneous nitroglycerin absorption in rats. <i>Journal of Pharmaceutical Sciences</i> , 1979 , 68, 608-12	3.9	17
55	Relationship between in vivo nitroglycerin metabolism and in vitro organic nitrate reductase activity in rats. <i>Biochemical Pharmacology</i> , 1980 , 29, 646-8	6	17
54	Rectal absorption of nitroglycerin in the rat: avoidance of first-pass metabolism as a function of rectal length exposure. <i>Journal of Pharmaceutical Sciences</i> , 1982 , 71, 621-4	3.9	17
53	Kinetic assay of single nitroglycerin tablets. <i>Journal of Pharmaceutical Sciences</i> , 1973 , 62, 696-7	3.9	17
52	Nitrite inhalation in rats elevates tissue NOS III expression and alters tyrosine nitration and phosphorylation. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 275, 335-42	3.4	15
51	Role of the liver in the disposition of intravenous nitroglycerin in the rat. <i>Biochemical Pharmacology</i> , 1984 , 33, 2681-6	6	15
50	Evaluation of an LC-MS/MS assay for ¹⁵ N-nitrite for cellular studies of L-arginine action. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2011 , 56, 1127-31	3.5	14
49	Mechanism of cellular oxidation stress induced by asymmetric dimethylarginine. <i>International Journal of Molecular Sciences</i> , 2012 , 13, 7521-31	6.3	14
48	Pharmacokinetics of nitroglycerin after parenteral and oral dosing in the rat. <i>Journal of Pharmaceutical Sciences</i> , 1984 , 73, 873-9	3.9	13
47	Isosorbide dinitrate: pharmacokinetics after intravenous administration. <i>Journal of Pharmaceutical Sciences</i> , 1982 , 71, 721-3	3.9	13
46	Broad regulation of matrix and adhesion molecules in THP-1 human macrophages by nitroglycerin. <i>Nitric Oxide - Biology and Chemistry</i> , 2010 , 22, 11-7	5	12
45	Effect of apparent elimination half-life on nitroglycerin-induced hemodynamic rebound in experimental heart failure. <i>Pharmaceutical Research</i> , 1993 , 10, 1341-5	4.5	12
44	Kinetic mechanisms for the concentration dependency of in vitro degradation of nitroglycerin and glyceryl dinitrates in human blood: metabolite inhibition or cosubstrate depletion?. <i>Journal of Pharmaceutical Sciences</i> , 1989 , 78, 295-302	3.9	12
43	Site dependence for topical absorption of nitroglycerin in rats. <i>Journal of Pharmaceutical Sciences</i> , 1978 , 67, 1345-6	3.9	12
42	Cellular interactions between L-arginine and asymmetric dimethylarginine: Transport and metabolism. <i>PLoS ONE</i> , 2017 , 12, e0178710	3.7	12
41	Contribution of vascular tissue to the antiplatelet activity of sodium nitroprusside. <i>Journal of Cardiovascular Pharmacology</i> , 1998 , 32, 129-33	3.1	12
40	Chemical stabilization of a vasoactive S-nitrosothiol with cyclodextrins without loss of pharmacologic activity. <i>Pharmaceutical Research</i> , 1991 , 8, 1329-34	4.5	11
39	In vitro organic nitrate bioactivation to nitric oxide by recombinant aldehyde dehydrogenase 3A1. <i>Nitric Oxide - Biology and Chemistry</i> , 2013 , 35, 137-43	5	10

38	Organic nitrate metabolism and action: toward a unifying hypothesis and the future-a dedication to Professor Leslie Z. Benet. <i>Journal of Pharmaceutical Sciences</i> , 2013 , 102, 3070-81	3.9	10
37	Dissociation between superoxide accumulation and nitroglycerin-induced tolerance. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2008 , 327, 97-104	4.7	10
36	Pharmacokinetics of 1,4-butanediol in rats: bioactivation to gamma-hydroxybutyric acid, interaction with ethanol, and oral bioavailability. <i>AAPS Journal</i> , 2008 , 10, 56-69	3.7	10
35	Effect of intermittent exposure and drug-free intervals on the in vitro vascular tolerance to nitroglycerin. <i>Life Sciences</i> , 1989 , 44, 1157-63	6.8	10
34	Removal of Ammonia Interference in the Redox Chemiluminescence Assay of Nitric Oxide. <i>Analytical Letters</i> , 1992 , 25, 2021-2036	2.2	9
33	Identification of nitroglycerin-induced cysteine modifications of pro-matrix metalloproteinase-9. <i>Rapid Communications in Mass Spectrometry</i> , 2011 , 25, 2291-8	2.2	8
32	eNOS-dependent vascular interaction between nitric oxide and calcitonin gene-related peptide in mice: gender selectivity and effects on blood aggregation. <i>Regulatory Peptides</i> , 2003 , 110, 115-22		8
31	Continuous versus intermittent nitroglycerin administration in experimental heart failure: vascular relaxation and radioligand binding to adrenoceptors and ion channels. <i>Journal of Cardiovascular Pharmacology</i> , 1993 , 22, 600-8	3.1	8
30	Pharmacodynamic modeling of the in vitro vasodilating effects of organic mononitrates. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 1992 , 20, 227-51		8
29	Nitroglycerin alters matrix remodeling proteins in THP-1 human macrophages and plasma metalloproteinase activity in rats. <i>Nitric Oxide - Biology and Chemistry</i> , 2011 , 24, 66-76	5	7
28	Effects of inhalant nitrites on VEGF expression: a feasible link to Kaposi's sarcoma?. <i>Journal of NeuroImmune Pharmacology</i> , 2006 , 1, 317-22	6.9	7
27	Pharmacodynamics of in vivo nitroglycerin tolerance in normal conscious rats: effects of dose and dosing protocol. <i>Pharmaceutical Research</i> , 2004 , 21, 114-20	4.5	7
26	Nitroglycerin-induced relaxation of anorectal smooth muscle: evidence for apparent lack of tolerance development in the anaesthetized rat. <i>British Journal of Pharmacology</i> , 2001 , 134, 418-24	8.6	6
25	Reversed-phase high-performance liquid chromatography method for the analysis of nitro-arginine in rat plasma and urine. <i>Biomedical Applications</i> , 1996 , 679, 7-12		6
24	Kinetic assay of nitric esters. <i>Analytical Chemistry</i> , 1975 , 47, 1183-1185	7.8	6
23	Letter: Development of a stable sublingual nitroglycerin tablet I: interaction of nitroglycerin with selected macromolecules. <i>Journal of Pharmaceutical Sciences</i> , 1974 , 63, 1810-2	3.9	6
22	Effects of obesity on the pharmacodynamics of nitroglycerin in conscious rats. <i>AAPS PharmSci</i> , 2002 , 4, E28		5
21	Relationship between pharmacokinetics and hemodynamic effects of inhaled isobutyl nitrite in conscious rats. <i>AAPS PharmSci</i> , 2000 , 2, E11		5

20	Regulation of in vivo whole blood aggregation in rats by calcitonin gene related peptide. <i>Canadian Journal of Physiology and Pharmacology</i> , 1998 , 76, 811-813	2.4	4
19	Nonlinear pharmacokinetics of L-N(G)-methyl-arginine in rats: characterization by an improved HPLC assay. <i>Biopharmaceutics and Drug Disposition</i> , 1999 , 20, 397-400	1.7	4
18	Solubilization Of Rat Whole Blood And Erythrocytes For Automated Determination Of Lead Using Atomic Absorption Spectrophotometry. <i>Analytical Letters</i> , 1980 , 13, 347-355	2.2	4
17	Dose-dependent pharmacokinetics of laevodopa and its metabolites in the rat. <i>Xenobiotica</i> , 1976 , 6, 237-48	2	4
16	Effects of nitro-L-arginine on blood pressure and cardiac index in anesthetized rats: a pharmacokinetic-pharmacodynamic analysis. <i>Pharmaceutical Research</i> , 1998 , 15, 1063-8	4.5	3
15	Specific binding of nitroglycerin to coronary artery microsomes. Evidence of a vascular nitrate binding site. <i>Biochemical Pharmacology</i> , 1996 , 52, 619-25	6	3
14	Inhibition of oral lead absorption in rats by phosphate-containing products. <i>Journal of Pharmaceutical Sciences</i> , 1983 , 72, 345-8	3.9	3
13	Effects of chronic oral administration on the disposition of laevodopa and its major metabolites in the plasma of the rat. <i>Xenobiotica</i> , 1975 , 5, 611-24	2	3
12	Prazosin potentiates the acute hypotensive effects of nitroglycerin but does not attenuate nitrate tolerance in normal conscious rats. <i>Journal of Cardiovascular Pharmacology</i> , 2004 , 43, 341-6	3.1	2
11	Use of refractometers to detect controlled-substance tampering. <i>American Journal of Health-System Pharmacy</i> , 1991 , 48, 1488-1492	2.2	2
10	In-Vitro Comparison of the Mucolytic Activity of Sodium Metabisulfite, N-Acetylcysteine and Dithiothreitol. <i>Drug Development and Industrial Pharmacy</i> , 1974 , 1, 507-516		2
9	Estimation of nitric oxide synthase activity via liquid chromatography/tandem mass spectrometric assay determination of ¹⁵ N ₃ -citrulline in biological samples. <i>Rapid Communications in Mass Spectrometry</i> , 2015 , 29, 447-55	2.2	1
8	A modified product inhibition model describes the nonlinear pharmacokinetics of nicorandil in rats. <i>Pharmaceutical Research</i> , 1994 , 11, 1190-8	4.5	1
7	Comparative Pharmacological Evaluation of Different Sublingual Nitroglycerin Formulations. <i>Drug Development and Industrial Pharmacy</i> , 1976 , 2, 193-209		1
6	Pharmacodynamics of In Vivo Nitrate Action. <i>American Journal of Cardiology</i> , 1998 , 81, 15A-20A	3	
5	An interactive lesson in acid/base and pro-drug chemistry using sodium gamma-hydroxybutyrate and commercial test coasters. <i>American Journal of Pharmaceutical Education</i> , 2007 , 71, 54	2.5	
4	Factors Affecting the Kinetic Assay of Nitroglycerin in Dosage Forms. <i>American Journal of Health-System Pharmacy</i> , 1975 , 32, 1039-1042	2.2	
3	Potency and Stability of Extemporaneously Prepared Nitroglycerin Intravenous Solutions. <i>American Journal of Health-System Pharmacy</i> , 1978 , 35, 528-529	2.2	

- 2 Potency and stability of extemporaneous nitroglycerin infusions. *American Journal of Health-System Pharmacy*, **1979**, 36, 173-177 2.2
- 1 Pharmacology of Nitrovasodilators **2011**, 207-224