

# Chew-Kiat Heng

## List of Publications by Citations

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118  
papers

3,409  
citations

31  
h-index

55  
g-index

125  
ext. papers

4,432  
ext. citations

6.1  
avg, IF

4.32  
L-index

#	Paper	IF	Citations
118	Trans-ancestry genome-wide association study identifies 12 genetic loci influencing blood pressure and implicates a role for DNA methylation. <i>Nature Genetics</i> , <b>2015</b> , 47, 1282-1293	36.3	223
117	Impact of common genetic determinants of Hemoglobin A1c on type 2 diabetes risk and diagnosis in ancestrally diverse populations: A transethnic genome-wide meta-analysis. <i>PLoS Medicine</i> , <b>2017</b> , 14, e1002383	11.6	223
116	A catalog of genetic loci associated with kidney function from analyses of a million individuals. <i>Nature Genetics</i> , <b>2019</b> , 51, 957-972	36.3	217
115	Silicon-based microfilters for whole blood cell separation. <i>Biomedical Microdevices</i> , <b>2008</b> , 10, 251-7	3.7	209
114	Impact of dynamic online fed-batch strategies on metabolism, productivity and N-glycosylation quality in CHO cell cultures. <i>Biotechnology and Bioengineering</i> , <b>2005</b> , 89, 164-77	4.9	200
113	New loci and coding variants confer risk for age-related macular degeneration in East Asians. <i>Nature Communications</i> , <b>2015</b> , 6, 6063	17.4	118
112	Schizosaccharomyces pombe cells deficient in triacylglycerols synthesis undergo apoptosis upon entry into the stationary phase. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 47145-55	5.4	97
111	Association analyses of East Asian individuals and trans-ancestry analyses with European individuals reveal new loci associated with cholesterol and triglyceride levels. <i>Human Molecular Genetics</i> , <b>2017</b> , 26, 1770-1784	5.6	90
110	Metabolomics-driven approach for the improvement of Chinese hamster ovary cell growth: overexpression of malate dehydrogenase II. <i>Journal of Biotechnology</i> , <b>2010</b> , 147, 116-21	3.7	77
109	Targeting early apoptotic genes in batch and fed-batch CHO cell cultures. <i>Biotechnology and Bioengineering</i> , <b>2006</b> , 95, 350-61	4.9	77
108	Detection of Saccharomyces cerevisiae immobilized on self-assembled monolayer (SAM) of alkanethiolate using electrochemical impedance spectroscopy. <i>Analytica Chimica Acta</i> , <b>2005</b> , 554, 52-59	6.6	77
107	Transcriptional profiling of apoptotic pathways in batch and fed-batch CHO cell cultures. <i>Biotechnology and Bioengineering</i> , <b>2006</b> , 94, 373-82	4.9	71
106	Association between serum amyloid A and obesity: a meta-analysis and systematic review. <i>Inflammation Research</i> , <b>2010</b> , 59, 323-34	7.2	69
105	Metabolomics profiling of extracellular metabolites in recombinant Chinese Hamster Ovary fed-batch culture. <i>Rapid Communications in Mass Spectrometry</i> , <b>2009</b> , 23, 3763-71	2.2	60
104	Multi-ancestry genome-wide gene-smoking interaction study of 387,272 individuals identifies new loci associated with serum lipids. <i>Nature Genetics</i> , <b>2019</b> , 51, 636-648	36.3	59
103	A Large-Scale Multi-ancestry Genome-wide Study Accounting for Smoking Behavior Identifies Multiple Significant Loci for Blood Pressure. <i>American Journal of Human Genetics</i> , <b>2018</b> , 102, 375-400	11	59
102	Risk factors for steroid dependency in children with idiopathic nephrotic syndrome. <i>Pediatric Nephrology</i> , <b>2001</b> , 16, 1049-52	3.2	53

101	Thiopurine methyltransferase polymorphisms in a multiracial asian population and children with acute lymphoblastic leukemia. <i>Journal of Pediatric Hematology/Oncology</i> , <b>2002</b> , 24, 353-9	1.2	51
100	ABCA1 gene polymorphisms and their associations with coronary artery disease and plasma lipids in males from three ethnic populations in Singapore. <i>Human Genetics</i> , <b>2003</b> , 113, 106-17	6.3	49
99	Metabolomics-based identification of apoptosis-inducing metabolites in recombinant fed-batch CHO culture media. <i>Journal of Biotechnology</i> , <b>2011</b> , 151, 218-24	3.7	47
98	Reduced transcriptional activity in individuals with IL-18 gene variants detected from functional but not association study. <i>Biochemical and Biophysical Research Communications</i> , <b>2005</b> , 338, 736-41	3.4	47
97	Multiple nonglycemic genomic loci are newly associated with blood level of glycated hemoglobin in East Asians. <i>Diabetes</i> , <b>2014</b> , 63, 2551-62	0.9	46
96	Multi-ancestry study of blood lipid levels identifies four loci interacting with physical activity. <i>Nature Communications</i> , <b>2019</b> , 10, 376	17.4	41
95	Associations of autozygosity with a broad range of human phenotypes. <i>Nature Communications</i> , <b>2019</b> , 10, 4957	17.4	40
94	Multiancestry Genome-Wide Association Study of Lipid Levels Incorporating Gene-Alcohol Interactions. <i>American Journal of Epidemiology</i> , <b>2019</b> , 188, 1033-1054	3.8	39
93	Impact of serum amyloid A on tissue factor and tissue factor pathway inhibitor expression and activity in endothelial cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2007</b> , 27, 1645-50	9.4	38
92	Micro-assembled multi-chamber thermal cyler for low-cost reaction chip thermal multiplexing. <i>Sensors and Actuators A: Physical</i> , <b>2002</b> , 102, 114-121	3.9	38
91	A genome-wide association study of n-3 and n-6 plasma fatty acids in a Singaporean Chinese population. <i>Genes and Nutrition</i> , <b>2015</b> , 10, 53	4.3	35
90	Sequential responses to high-fat and high-calorie feeding in an obese mouse model. <i>Obesity</i> , <b>2008</b> , 16, 972-8	8	35
89	Association of factor VII genotype with plasma factor VII activity and antigen levels in healthy Indian adults and interaction with triglycerides. <i>Arteriosclerosis and Thrombosis: A Journal of Vascular Biology</i> , <b>1994</b> , 14, 1923-7		32
88	Novel genetic associations for blood pressure identified via gene-alcohol interaction in up to 570K individuals across multiple ancestries. <i>PLoS ONE</i> , <b>2018</b> , 13, e0198166	3.7	31
87	Loci for human leukocyte telomere length in the Singaporean Chinese population and trans-ethnic genetic studies. <i>Nature Communications</i> , <b>2019</b> , 10, 2491	17.4	29
86	Interethnic analyses of blood pressure loci in populations of East Asian and European descent. <i>Nature Communications</i> , <b>2018</b> , 9, 5052	17.4	29
85	Microfluidic systems for extracting nucleic acids for DNA and RNA analysis. <i>Sensors and Actuators A: Physical</i> , <b>2007</b> , 133, 335-339	3.9	27
84	CD14 promoter polymorphisms have no functional significance and are not associated with atopic phenotypes. <i>Pharmacogenetics and Genomics</i> , <b>2006</b> , 16, 229-36	1.9	27

83	Influence of polymorphisms for apolipoprotein B (ins/del, XbaI, EcoRI) and apolipoprotein E on serum lipids and apolipoproteins in a Javanese population. <i>Genetic Epidemiology</i> , <b>1994</b> , 11, 19-27	2.6	26
82	MEFV E148Q polymorphism is associated with Henoch-Schönlein purpura in Chinese children. <i>Pediatric Nephrology</i> , <b>2010</b> , 25, 2077-82	3.2	24
81	The power of genetic diversity in genome-wide association studies of lipids. <i>Nature</i> , <b>2021</b> ,	50.4	24
80	Racial variation of cord plasma lipoprotein(a) levels in relation to coronary risk level: a study in three ethnic groups in Singapore. <i>Pediatric Research</i> , <b>1996</b> , 40, 718-22	3.2	24
79	DNA purification silicon chip. <i>Sensors and Actuators A: Physical</i> , <b>2007</b> , 139, 139-144	3.9	23
78	Variations in the promoter region of the apolipoprotein A-1 gene influence plasma lipoprotein(a) levels in Asian Indian neonates from Singapore. <i>Pediatric Research</i> , <b>2001</b> , 49, 514-8	3.2	23
77	Interleukin-13 genetic polymorphisms in Singapore Chinese children correlate with long-term outcome of minimal-change disease. <i>Nephrology Dialysis Transplantation</i> , <b>2005</b> , 20, 728-34	4.3	22
76	Association of single nucleotide polymorphism rs6903956 on chromosome 6p24.1 with coronary artery disease and lipid levels in different ethnic groups of the Singaporean population. <i>Clinical Biochemistry</i> , <b>2013</b> , 46, 755-9	3.5	21
75	Association of CETP Taq1B and -629C > A polymorphisms with coronary artery disease and lipid levels in the multi-ethnic Singaporean population. <i>Lipids in Health and Disease</i> , <b>2013</b> , 12, 85	4.4	20
74	Sequential effects of a high-fiber diet with psyllium husks on the expression levels of hepatic genes and plasma lipids. <i>Nutrition</i> , <b>2008</b> , 24, 57-66	4.8	20
73	Racial variation of factor VII activity and antigen levels and their correlates in healthy Chinese and Indians at low and high risk for coronary artery disease. <i>Atherosclerosis</i> , <b>1995</b> , 117, 33-42	3.1	19
72	Are C-reactive protein associated genetic variants associated with serum levels and retinal markers of microvascular pathology in Asian populations from Singapore?. <i>PLoS ONE</i> , <b>2013</b> , 8, e67650	3.7	18
71	Arrayed primer extension: a robust and reliable genotyping platform for the diagnosis of single gene disorders: beta-thalassemia and thiopurine methyltransferase deficiency. <i>Genetic Testing and Molecular Biomarkers</i> , <b>2005</b> , 9, 212-9		18
70	The role of NF- $\kappa$ B in SAA-induced peroxisome proliferator-activated receptor $\alpha$ activation. <i>Atherosclerosis</i> , <b>2013</b> , 227, 72-8	3.1	17
69	Prevalence and risk factors for retinopathy in persons without diabetes: the Singapore Indian Eye Study. <i>Acta Ophthalmologica</i> , <b>2014</b> , 92, e602-9	3.7	16
68	Carbon nanotube-based labels for highly sensitive colorimetric and aggregation-based visual detection of nucleic acids. <i>Nanotechnology</i> , <b>2007</b> , 18, 455102	3.4	16
67	Visfatin and its genetic variants are associated with obesity-related morbidities and cardiometabolic risk in severely obese children. <i>Pediatric Obesity</i> , <b>2014</b> , 9, 81-91	4.6	15
66	Evolution of the apolipoprotein B gene and coronary artery disease: a study in low and high risk Asians. <i>Annals of Human Genetics</i> , <b>1999</b> , 63, 45-62	2.2	15

65	A multi-ancestry genome-wide study incorporating gene-smoking interactions identifies multiple new loci for pulse pressure and mean arterial pressure. <i>Human Molecular Genetics</i> , <b>2019</b> , 28, 2615-2633	5.6	14
64	Interaction effects between Paraoxonase 1 variants and cigarette smoking on risk of coronary heart disease in a Singaporean Chinese population. <i>Atherosclerosis</i> , <b>2015</b> , 240, 40-5	3.1	14
63	Electrochemical detection of leukemia oncogenes using enzyme-loaded carbon nanotube labels. <i>Analyst, The</i> , <b>2014</b> , 139, 4223-30	5	14
62	Genome-wide association study identifies a missense variant at APOA5 for coronary artery disease in Multi-Ethnic Cohorts from Southeast Asia. <i>Scientific Reports</i> , <b>2017</b> , 7, 17921	4.9	14
61	Genome-wide analysis identifies novel susceptibility loci for myocardial infarction. <i>European Heart Journal</i> , <b>2021</b> , 42, 919-933	9.5	14
60	Celecoxib inhibits serum amyloid a-induced matrix metalloproteinase-10 expression in human endothelial cells. <i>Journal of Vascular Research</i> , <b>2009</b> , 46, 64-72	1.9	13
59	Genetic Interactions Between TRPC6 and NPHS1 Variants Affect Posttransplant Risk of Recurrent Focal Segmental Glomerulosclerosis. <i>American Journal of Transplantation</i> , <b>2015</b> , 15, 3229-38	8.7	12
58	Sensitive electrochemical detection of horseradish peroxidase at disposable screen-printed carbon electrode. <i>Electroanalysis</i> , <b>2008</b> , 20, 2040	3	12
57	Childhood nephrotic syndrome in relapse is associated with down-regulation of monocyte CD14 expression and lipopolysaccharide-induced tumour necrosis factor-alpha production. <i>Clinical and Experimental Immunology</i> , <b>2003</b> , 134, 111-9	6.2	12
56	Variation of the platelet glycoprotein IIIa PI(A1/A2) allele frequencies in the three ethnic groups of Singapore. <i>International Journal of Cardiology</i> , <b>2003</b> , 90, 269-73	3.2	12
55	Genotype associations of factor VII gene with plasma factor VII coagulant activity and antigen levels in healthy Chinese. <i>Blood Coagulation and Fibrinolysis</i> , <b>2002</b> , 13, 217-24	1	12
54	Differences in AMY1 Gene Copy Numbers Derived from Blood, Buccal Cells and Saliva Using Quantitative and Droplet Digital PCR Methods: Flagging the Pitfall. <i>PLoS ONE</i> , <b>2017</b> , 12, e0170767	3.7	12
53	The impacts of thiazolidinediones on circulating C-reactive protein levels in different diseases: a meta-analysis. <i>Diabetes Research and Clinical Practice</i> , <b>2010</b> , 90, 279-87	7.4	11
52	The association of mitochondrial DNA 5178 C > a polymorphism with plasma lipid levels among three ethnic groups. <i>Annals of Human Genetics</i> , <b>2005</b> , 69, 639-44	2.2	11
51	Acyl-CoA: cholesterol acyltransferase-2 gene polymorphisms and their association with plasma lipids and coronary artery disease risks. <i>Human Genetics</i> , <b>2005</b> , 118, 393-403	6.3	11
50	Spectral characterization of yeast cells with an epitaxy-based UV-Vis optical sensor. <i>Biomedical Microdevices</i> , <b>2006</b> , 8, 177-85	3.7	10
49	The impact of factor XIIIa V34L polymorphism on plasma factor XIII activity in the Chinese and Asian Indians from Singapore. <i>Human Genetics</i> , <b>2004</b> , 114, 186-91	6.3	10
48	Variant screening of the serum amyloid A1 gene and functional study of the p.Gly90Asp variant for its role in atherosclerosis. <i>Atherosclerosis</i> , <b>2013</b> , 227, 112-7	3.1	9

47	Utility of genetic and non-genetic risk factors in predicting coronary heart disease in Singaporean Chinese. <i>European Journal of Preventive Cardiology</i> , <b>2017</b> , 24, 153-160	3.9	9
46	The effects of three factor VII polymorphisms on factor VII coagulant levels in healthy Singaporean Chinese, Malay and Indian newborns. <i>Annals of Human Genetics</i> , <b>2006</b> , 70, 951-7	2.2	9
45	Ethnic variations of a retinoblastoma susceptibility gene (RB1) polymorphism in eight Asian populations. <i>Journal of Genetics</i> , <b>2003</b> , 82, 33-7	1.2	9
44	Cladistic analysis of human apolipoprotein a4 polymorphisms in relation to quantitative plasma lipid risk factors of coronary heart disease. <i>Annals of Human Genetics</i> , <b>2003</b> , 67, 107-24	2.2	9
43	Effect of serum amyloid A1 treatment on global gene expression in THP-1-derived macrophages. <i>Inflammation Research</i> , <b>2012</b> , 61, 391-8	7.2	8
42	A self-contained disposable cartridge microsystem for dengue viral ribonucleic acid extraction. <i>Sensors and Actuators B: Chemical</i> , <b>2011</b> , 160, 1557-1564	8.5	8
41	Serum amyloid A activates peroxisome proliferator-activated receptor $\beta$ through extracellularly regulated kinase 1/2 and COX-2 expression in hepatocytes. <i>Biochemistry</i> , <b>2010</b> , 49, 9508-17	3.2	8
40	Association of variants with hemoglobin A1c and impact on diabetes diagnosis in East Asian individuals. <i>BMJ Open Diabetes Research and Care</i> , <b>2020</b> , 8,	4.5	7
39	Gene-diet interaction effects on BMI levels in the Singapore Chinese population. <i>Nutrition Journal</i> , <b>2018</b> , 17, 31	4.3	7
38	Nucleic Acid Extraction, Amplification, and Detection on Si-Based Microfluidic Platforms. <i>IEEE Journal of Solid-State Circuits</i> , <b>2007</b> , 42, 1803-1813	5.5	7
37	Tag/anti-tag liquid-phase primer extension array: a flexible and versatile genotyping platform. <i>Genomics</i> , <b>2006</b> , 87, 151-7	4.3	7
36	Predicting risk of coronary artery disease from DNA microarray-based genotyping using neural networks and other statistical analysis tool. <i>Journal of Bioinformatics and Computational Biology</i> , <b>2003</b> , 1, 521-39	1	7
35	Fibrinogen genotypes (alpha and beta) are associated with plasma fibrinogen levels in Chinese. <i>Journal of Medical Genetics</i> , <b>2001</b> , 38, E31	5.8	7
34	Functional characterization of variants in MC4R gene promoter region found in obese children. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2014</b> , 99, E931-5	5.6	6
33	In-vitro function of upstream visfatin polymorphisms that are associated with adverse cardiometabolic parameters in obese children. <i>BMC Genomics</i> , <b>2016</b> , 17, 974	4.5	6
32	Microfluidic chips for viral RNA extraction & detection		5
31	The atherogenic effects of serum amyloid A are potentially mediated via inflammation and apoptosis. <i>Journal of Atherosclerosis and Thrombosis</i> , <b>2014</b> , 21, 854-67	4	5
30	Association of intronic single-nucleotide polymorphisms in the EMILIN1 gene with essential hypertension in a Chinese population. <i>Journal of Human Hypertension</i> , <b>2012</b> , 26, 553-61	2.6	4

29	Gene-educational attainment interactions in a multi-ancestry genome-wide meta-analysis identify novel blood pressure loci. <i>Molecular Psychiatry</i> , <b>2021</b> , 26, 2111-2125	15.1	3
28	The genetic variation rs6903956 in the novel androgen-dependent tissue factor pathway inhibitor regulating protein () gene is not associated with levels of plasma coagulation factors in the Singaporean Chinese. <i>Thrombosis Journal</i> , <b>2017</b> , 15, 1	5.6	3
27	Association of three lipoprotein lipase polymorphisms with coronary artery disease in Chinese and Asian Indians. <i>International Journal of Cardiology</i> , <b>2010</b> , 144, 142-3	3.2	3
26	Algorithm and simulation for analysis of bio-images obtained by aperture diffraction based optical MEMS. <i>Optics Express</i> , <b>2008</b> , 16, 11937-53	3.3	3
25	Lipoprotein(a) as predictor of coronary artery disease and myocardial infarction in a multi-ethnic Asian population. <i>Atherosclerosis</i> , <b>2021</b> ,	3.1	3
24	Detection of ADTRP in circulation and its role as a novel biomarker for coronary artery disease. <i>PLoS ONE</i> , <b>2020</b> , 15, e0237074	3.7	3
23	Effect of plasma polyunsaturated fatty acid levels on leukocyte telomere lengths in the Singaporean Chinese population. <i>Nutrition Journal</i> , <b>2020</b> , 19, 119	4.3	3
22	A polygenic risk score improves risk stratification of coronary artery disease: a large-scale prospective Chinese cohort study.. <i>European Heart Journal</i> , <b>2022</b> ,	9.5	3
21	Glass-based BioMEMS devices for optically excited cell impedance measurement. <i>Sensors and Actuators A: Physical</i> , <b>2007</b> , 133, 301-310	3.9	2
20	Design of MEMS devices with optical apertures for the detection of transparent biological cells. <i>Biomedical Microdevices</i> , <b>2008</b> , 10, 639-52	3.7	2
19	Low frequency variants associated with leukocyte telomere length in the Singapore Chinese population. <i>Communications Biology</i> , <b>2021</b> , 4, 519	6.7	2
18	Fish and marine fatty acids intakes, the genotypes and long-term weight gain: a prospective cohort study. <i>BMJ Open</i> , <b>2019</b> , 9, e022877	3	2
17	Functional characterization of two single nucleotide polymorphisms of acyl-coenzyme A:cholesterol acyltransferase 2. <i>Gene</i> , <b>2015</b> , 566, 236-41	3.8	1
16	Design of a fully-enclosed disposable bio-micro fluidic cartridge with self-contained reagents for infectious diseases diagnostic applications <b>2009</b> ,		1
15	Genome-wide association studies of coronary artery disease: have the results of replication studies been replicable?. <i>European Heart Journal</i> , <b>2008</b> , 29, 2189-90	9.5	1
14	LOW COST MICRO-PCR ARRAY AND MICRO-FLUIDIC INTEGRATION ON SINGLE SILICON CHIP. <i>International Journal of Computational Engineering Science</i> , <b>2003</b> , 04, 231-234		1
13	Potentiostatic deposition and detection of DNA on conductive nitrogen doped diamond-like carbon film electrode		1
12	Cladogramer: incorporating haplotype frequency into cladogram analysis. <i>Bioinformatics</i> , <b>2001</b> , 17, 481-7.2		1

11	Interaction between a haptoglobin genetic variant and coronary artery disease (CAD) risk factors on CAD severity in Singaporean Chinese population. <i>Molecular Genetics &amp; Genomic Medicine</i> , <b>2020</b> , 8, e1450	2.3	1
10	Analysis of 47 Non-MHC Ankylosing Spondylitis Susceptibility Loci Regarding Associated Variants across Whites and Han Chinese. <i>Journal of Rheumatology</i> , <b>2020</b> , 47, 674-681	4.1	1
9	Midlife Leukocyte Telomere Length as an Indicator for Handgrip Strength in Late Life. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2021</b> , 76, 172-175	6.4	1
8	Differential and shared genetic effects on kidney function between diabetic and non-diabetic individuals. <i>Communications Biology</i> , <b>2022</b> , 5,	6.7	1
7	Androgen-dependent tissue factor pathway inhibitor regulating protein: a review of its peripheral actions and association with cardiometabolic diseases. <i>Journal of Molecular Medicine</i> , <b>2021</b> , 1	5.5	0
6	The association of genetically determined serum glycine with cardiovascular risk in East Asians. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , <b>2021</b> , 31, 1840-1844	4.5	0
5	A novel model for predicting non-responsiveness to intravenous immunoglobulins in Kawasaki disease: The Singapore experience. <i>Journal of Paediatrics and Child Health</i> , <b>2019</b> , 55, 962-967	1.3	0
4	Interaction Between Peroxisome Proliferator Activated Receptor $\alpha$ and Epithelial Membrane Protein 2 Polymorphisms Influences HDL-C Levels in the Chinese Population. <i>Annals of Human Genetics</i> , <b>2016</b> , 80, 282-93	2.2	
3	Genes in FSGS: Diagnostic and Management Strategies in Children. <i>Current Pediatrics Reports</i> , <b>2015</b> , 3, 78-90	0.7	
2	FLIP-CHIP PACKAGED MICRO-PLATE FOR LOW COST THERMAL MULTIPLEXING. <i>International Journal of Computational Engineering Science</i> , <b>2003</b> , 04, 235-238		
1	Genetic associations with healthy ageing among Chinese adults <b>2022</b> , 8,		