

# Rossa Wk Chiu

## List of Publications by Year in descending order

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Version: 2024-02-01

67  
papers

6,040  
citations

109321

35  
h-index

114465

63  
g-index

67  
all docs

67  
docs citations

67  
times ranked

7109  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of Plasma Epstein-Barr Virus DNA to Screen for Nasopharyngeal Cancer. <i>New England Journal of Medicine</i> , 2017, 377, 513-522.	27.0	531
2	Effects of early corticosteroid treatment on plasma SARS-associated Coronavirus RNA concentrations in adult patients. <i>Journal of Clinical Virology</i> , 2004, 31, 304-309.	3.1	516
3	Predominant Hematopoietic Origin of Cell-free DNA in Plasma and Serum after Sex-mismatched Bone Marrow Transplantation. <i>Clinical Chemistry</i> , 2002, 48, 421-427.	3.2	483
4	Cancer Genome Scanning in Plasma: Detection of Tumor-Associated Copy Number Aberrations, Single-Nucleotide Variants, and Tumoral Heterogeneity by Massively Parallel Sequencing. <i>Clinical Chemistry</i> , 2013, 59, 211-224.	3.2	447
5	Hypermethylated RASSF1A in Maternal Plasma: A Universal Fetal DNA Marker that Improves the Reliability of Noninvasive Prenatal Diagnosis. <i>Clinical Chemistry</i> , 2006, 52, 2211-2218.	3.2	319
6	Prenatal exclusion of $\beta^0$ thalassaemia major by examination of maternal plasma. <i>Lancet, The</i> , 2002, 360, 998-1000.	13.7	267
7	Presence of Filterable and Nonfilterable mRNA in the Plasma of Cancer Patients and Healthy Individuals. <i>Clinical Chemistry</i> , 2002, 48, 1212-1217.	3.2	255
8	Sequencing of Circulating Cell-free DNA during Pregnancy. <i>New England Journal of Medicine</i> , 2018, 379, 464-473.	27.0	221
9	High-Resolution Profiling of Fetal DNA Clearance from Maternal Plasma by Massively Parallel Sequencing. <i>Clinical Chemistry</i> , 2013, 59, 1228-1237.	3.2	202
10	Orientation-aware plasma cell-free DNA fragmentation analysis in open chromatin regions informs tissue of origin. <i>Genome Research</i> , 2019, 29, 418-427.	5.5	159
11	Noninvasive Prenatal Detection of Fetal Trisomy 18 by Epigenetic Allelic Ratio Analysis in Maternal Plasma: Theoretical and Empirical Considerations. <i>Clinical Chemistry</i> , 2006, 52, 2194-2202.	3.2	156
12	Plasma DNA End-Motif Profiling as a Fragmentomic Marker in Cancer, Pregnancy, and Transplantation. <i>Cancer Discovery</i> , 2020, 10, 664-673.	9.4	152
13	Noninvasive Prenatal Exclusion of Congenital Adrenal Hyperplasia by Maternal Plasma Analysis: A Feasibility Study. <i>Clinical Chemistry</i> , 2002, 48, 778-780.	3.2	145
14	Noninvasive Prenatal Methylomic Analysis by Genomewide Bisulfite Sequencing of Maternal Plasma DNA. <i>Clinical Chemistry</i> , 2013, 59, 1583-1594.	3.2	131
15	Hypermethylation of RASSF1A in Human and Rhesus Placentas. <i>American Journal of Pathology</i> , 2007, 170, 941-950.	3.8	128
16	The Biology of Cell-free DNA Fragmentation and the Roles of DNASE1, DNASE1L3, and DFFB. <i>American Journal of Human Genetics</i> , 2020, 106, 202-214.	6.2	127
17	Maternal Plasma DNA Analysis with Massively Parallel Sequencing by Ligation for Noninvasive Prenatal Diagnosis of Trisomy 21. <i>Clinical Chemistry</i> , 2010, 56, 459-463.	3.2	125
18	Noninvasive Prenatal Detection of Trisomy 21 by an Epigenetic Genetic Chromosome-Dosage Approach. <i>Clinical Chemistry</i> , 2010, 56, 90-98.	3.2	115

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19	Targeted Massively Parallel Sequencing of Maternal Plasma DNA Permits Efficient and Unbiased Detection of Fetal Alleles. <i>Clinical Chemistry</i> , 2011, 57, 92-101.	3.2	111
20	Non-invasive prenatal diagnosis by single molecule counting technologies. <i>Trends in Genetics</i> , 2009, 25, 324-331.	6.7	95
21	Maternal Plasma Fetal DNA Fractions in Pregnancies with Low and High Risks for Fetal Chromosomal Aneuploidies. <i>PLoS ONE</i> , 2014, 9, e88484.	2.5	92
22	Serum Proteomic Fingerprints of Adult Patients with Severe Acute Respiratory Syndrome. <i>Clinical Chemistry</i> , 2006, 52, 421-429.	3.2	83
23	Non-invasive prenatal diagnosis by fetal nucleic acid analysis in maternal plasma: the coming of age. <i>Seminars in Fetal and Neonatal Medicine</i> , 2011, 16, 88-93.	2.3	67
24	Noninvasive Prenatal Determination of Twin Zygosity by Maternal Plasma DNA Analysis. <i>Clinical Chemistry</i> , 2013, 59, 427-435.	3.2	64
25	Detection and characterization of jagged ends of double-stranded DNA in plasma. <i>Genome Research</i> , 2020, 30, 1144-1153.	5.5	61
26	Genomewide bisulfite sequencing reveals the origin and time-dependent fragmentation of urinary cfDNA. <i>Clinical Biochemistry</i> , 2017, 50, 496-501.	1.9	60
27	Circulating Placental RNA in Maternal Plasma Is Associated with a Preponderance of 5â€² mRNA Fragments: Implications for Noninvasive Prenatal Diagnosis and Monitoring. <i>Clinical Chemistry</i> , 2005, 51, 1786-1795.	3.2	59
28	Cell-free DNA in maternal plasma and serum: A comparison of quantity, quality and tissue origin using genomic and epigenomic approaches. <i>Clinical Biochemistry</i> , 2016, 49, 1379-1386.	1.9	58
29	Synergy of Total PLAC4 RNA Concentration and Measurement of the RNA Single-Nucleotide Polymorphism Allelic Ratio for the Noninvasive Prenatal Detection of Trisomy 21. <i>Clinical Chemistry</i> , 2010, 56, 73-81.	3.2	57
30	Lack of Dramatic Enrichment of Fetal DNA in Maternal Plasma by Formaldehyde Treatment. <i>Clinical Chemistry</i> , 2005, 51, 655-658.	3.2	52
31	Time Profile of Appearance and Disappearance of Circulating Placenta-Derived mRNA in Maternal Plasma. <i>Clinical Chemistry</i> , 2006, 52, 313-316.	3.2	46
32	Plasma Î²-globin DNA as a prognostic marker in chest pain patients. <i>Clinica Chimica Acta</i> , 2006, 368, 110-113.	1.1	45
33	Non-invasive prenatal diagnosis of thalassemias using maternal plasma cell free DNA. <i>Best Practice and Research in Clinical Obstetrics and Gynaecology</i> , 2017, 39, 63-73.	2.8	42
34	Tracing SARS-Coronavirus Variant with Large Genomic Deletion. <i>Emerging Infectious Diseases</i> , 2005, 11, 168-170.	4.3	40
35	Detection of Trisomy 21 by Quantitative Mass Spectrometric Analysis of Single-Nucleotide Polymorphisms. <i>Clinical Chemistry</i> , 2005, 51, 2358-2362.	3.2	37
36	Plasma DNA Profile Associated with DNASE1L3 Gene Mutations: Clinical Observations, Relationships to Nuclease Substrate Preference, and In Vivo Correction. <i>American Journal of Human Genetics</i> , 2020, 107, 882-894.	6.2	37

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37	The Biology and Diagnostic Applications of Fetal DNA and RNA in Maternal Plasma. <i>Current Topics in Developmental Biology</i> , 2004, 61, 81-111.	2.2	32
38	The Biology and Diagnostic Applications of Plasma RNA. <i>Annals of the New York Academy of Sciences</i> , 2004, 1022, 135-139.	3.8	27
39	Detection of Restriction Enzyme-Digested Target DNA by PCR Amplification Using a Stem-Loop Primer: Application to the Detection of Hypomethylated Fetal DNA in Maternal Plasma. <i>Clinical Chemistry</i> , 2007, 53, 1906-1914.	3.2	27
40	Epigenetic approaches for the detection of fetal DNA in maternal plasma. <i>Chimerism</i> , 2010, 1, 30-35.	0.7	26
41	Mass Spectrometric Detection of an SNP Panel as an Internal Positive Control for Fetal DNA Analysis in Maternal Plasma. <i>Clinical Chemistry</i> , 2007, 53, 141-142.	3.2	25
42	Noninvasive Prenatal Diagnosis of a Case of Down Syndrome due to Robertsonian Translocation by Massively Parallel Sequencing of Maternal Plasma DNA. <i>Clinical Chemistry</i> , 2011, 57, 917-919.	3.2	25
43	Proteomic analysis reveals platelet factor 4 and beta-thromboglobulin as prognostic markers in severe acute respiratory syndrome. <i>Electrophoresis</i> , 2012, 33, 1894-1900.	2.4	23
44	Plasma nucleic acid analysis by massively parallel sequencing: pathological insights and diagnostic implications. <i>Journal of Pathology</i> , 2011, 225, 318-323.	4.5	22
45	Single-Molecule Sequencing Enables Long Cell-Free DNA Detection and Direct Methylation Analysis for Cancer Patients. <i>Clinical Chemistry</i> , 2022, 68, 1151-1163.	3.2	22
46	Mass Spectrometry-Based Detection of Hemoglobin E Mutation by Allele-Specific Base Extension Reaction. <i>Clinical Chemistry</i> , 2007, 53, 2205-2209.	3.2	21
47	Aberrant Concentrations of Liver-Derived Plasma Albumin mRNA in Liver Pathologies. <i>Clinical Chemistry</i> , 2010, 56, 82-89.	3.2	20
48	Applications of genetic-epigenetic tissue mapping for plasma DNA in prenatal testing, transplantation and oncology. <i>ELife</i> , 2021, 10, .	6.0	19
49	Noninvasive Approaches to Prenatal Diagnosis of Hemoglobinopathies Using Fetal DNA in Maternal Plasma. <i>Hematology/Oncology Clinics of North America</i> , 2010, 24, 1179-1186.	2.2	18
50	Noninvasive reconstruction of placental methylome from maternal plasma DNA: Potential for prenatal testing and monitoring. <i>Prenatal Diagnosis</i> , 2018, 38, 196-203.	2.3	16
51	Epigenetic Analysis of RASSF1A Gene in Cell-Free DNA in Amniotic Fluid. <i>Clinical Chemistry</i> , 2007, 53, 796-798.	3.2	15
52	Circulating Nucleic Acids in Plasma/Serum III and Serum Proteomics Recent Developments in Fetal DNA in Maternal Plasma. <i>Annals of the New York Academy of Sciences</i> , 2004, 1022, 100-104.	3.8	14
53	Serum Amyloid A Is Not Useful in the Diagnosis of Severe Acute Respiratory Syndrome. <i>Clinical Chemistry</i> , 2006, 52, 1202-1204.	3.2	14
54	Prenatal assessment of fetal chromosomal and genetic disorders through maternal plasma DNA analysis. <i>Pathology</i> , 2012, 44, 69-72.	0.6	14

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55	Non-invasive prenatal diagnosis: on the horizon?. <i>Pharmacogenomics</i> , 2003, 4, 191-200.	1.3	13
56	Effects of nucleases on cell-free extrachromosomal circular DNA. <i>JCI Insight</i> , 2022, 7, .	5.0	12
57	Non-invasive prenatal diagnosis of Down's syndrome. <i>Lancet, The</i> , 2007, 369, 1997.	13.7	11
58	Noninvasive prenatal testing beyond genomic analysis. <i>Current Opinion in Obstetrics and Gynecology</i> , 2016, 28, 105-110.	2.0	10
59	Enrichment of fetal and maternal long cell-free DNA fragments from maternal plasma following DNA repair. <i>Prenatal Diagnosis</i> , 2019, 39, 88-99.	2.3	8
60	Jagged Ends on Multinucleosomal Cell-Free DNA Serve as a Biomarker for Nuclease Activity and Systemic Lupus Erythematosus. <i>Clinical Chemistry</i> , 2022, 68, 917-926.	3.2	7
61	Detrimental Effect of Formaldehyde on Plasma RNA Detection. <i>Clinical Chemistry</i> , 2005, 51, 1074-1076.	3.2	5
62	Automated extraction protocol for quantification of SARS-Coronavirus RNA in serum: an evaluation study. <i>BMC Infectious Diseases</i> , 2006, 6, 20.	2.9	5
63	A simple and rapid approach for screening of SARS-coronavirus genotypes: an evaluation study. <i>BMC Infectious Diseases</i> , 2005, 5, 87.	2.9	4
64	Nicht-invasive pränatale Diagnostik fetaler chromosomaler Aneuploidien mittels Nukleinsäureanalyse des mütterlichen Plasmas / Noninvasive prenatal diagnosis of fetal chromosomal aneuploidies by	0.6	0
65	Circulating Nucleic Acids for Prenatal Diagnostics. , 2018, , 283-294.		0
66	Nucleic Acid Isolation. , 2012, , 1231-1237.		0
67	Plasma Nucleic Acids. , 2012, , 1397-1411.		0