Dennis Lo

List of Publications by Citations

316 papers	28,859 citations	86 h-index	164 g-index
336 ext. papers	32,815 ext. citations	8.5 avg, IF	6.85 L-index

#	Paper	IF	Citations
316	Presence of fetal DNA in maternal plasma and serum. *Lancet, The*, **1997**, 350, 485-7	40	2164
315	Quantitative analysis of fetal DNA in maternal plasma and serum: implications for noninvasive prenatal diagnosis. *American Journal of Human Genetics*, **1998**, 62, 768-75	11	1346
314	Rapid clearance of fetal DNA from maternal plasma. *American Journal of Human Genetics*, **1999**, 64, 218-24	11	845
313	Noninvasive prenatal diagnosis of fetal chromosomal aneuploidy by massively parallel genomic sequencing of DNA in maternal plasma. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 20458-63	11.5	681
312	Detection and characterization of placental microRNAs in maternal plasma. *Clinical Chemistry*, **2008**, 54, 482-90	5.5	679
311	Maternal plasma DNA sequencing reveals the genome-wide genetic and mutational profile of the fetus. *Science Translational Medicine*, **2010**, 2, 61ra91	17.5	673
310	Prenatal diagnosis of fetal RhD status by molecular analysis of maternal plasma. *New England Journal of Medicine*, **1998**, 339, 1734-8	59.2	588
309	Non-invasive prenatal assessment of trisomy 21 by multiplexed maternal plasma DNA sequencing: large scale validity study. *BMJ, The*, **2011**, 342, c7401	5.9	539
308	Size distributions of maternal and fetal DNA in maternal plasma. *Clinical Chemistry*, **2004**, 50, 88-92	5.5	449
307	Stability of Endogenous and Added RNA in Blood Specimens, Serum, and Plasma. *Clinical Chemistry*, **2002**, 48, 1647-1653	5.5	437
306	Quantitative Abnormalities of Fetal DNA in Maternal Serum in Preeclampsia. *Clinical Chemistry*, **1999**, 45, 184-188	5.5	435
305	Effects of early corticosteroid treatment on plasma SARS-associated Coronavirus RNA concentrations in adult patients. *Journal of Clinical Virology*, **2004**, 31, 304-9	14.5	422
304	Lengthening and shortening of plasma DNA in hepatocellular carcinoma patients. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E1317-25	11.5	392
303	Plasma DNA tissue mapping by genome-wide methylation sequencing for noninvasive prenatal, cancer, and transplantation assessments. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E5503-12	11.5	391
302	Predominant Hematopoietic Origin of Cell-free DNA in Plasma and Serum after Sex-mismatched Bone Marrow Transplantation. *Clinical Chemistry*, **2002**, 48, 421-427	5.5	370
301	Microfluidics digital PCR reveals a higher than expected fraction of fetal DNA in maternal plasma. *Clinical Chemistry*, **2008**, 54, 1664-72	5.5	346
300	Digital PCR for the molecular detection of fetal chromosomal aneuploidy. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 13116-21	11.5	342

299	Analysis of Plasma Epstein-Barr Virus DNA to Screen for Nasopharyngeal Cancer. *New England Journal of Medicine*, **2017**, 377, 513-522	59.2	338
298	Single-molecule detection of epidermal growth factor receptor mutations in plasma by microfluidics digital PCR in non-small cell lung cancer patients. *Clinical Cancer Research*, **2009**, 15, 2076-84	12.9	330
297	mRNA of placental origin is readily detectable in maternal plasma. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 4748-53	11.5	327
296	Plasma Epstein-Barr virus DNA and residual disease after radiotherapy for undifferentiated nasopharyngeal carcinoma. *Journal of the National Cancer Institute*, **2002**, 94, 1614-9	9.7	315
295	Plasma placental RNA allelic ratio permits noninvasive prenatal chromosomal aneuploidy detection. *Nature Medicine*, **2007**, 13, 218-23	50.5	312
294	Hypermethylated RASSF1A in maternal plasma: A universal fetal DNA marker that improves the reliability of noninvasive prenatal diagnosis. *Clinical Chemistry*, **2006**, 52, 2211-8	5.5	298
293	Effects of Blood-Processing Protocols on Fetal and Total DNA Quantification in Maternal Plasma. *Clinical Chemistry*, **2001**, 47, 1607-1613	5.5	290
292	Plasma DNA as a Prognostic Marker in Trauma Patients. *Clinical Chemistry*, **2000**, 46, 319-323	5.5	289
291	Detection of the placental epigenetic signature of the maspin gene in maternal plasma. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 14753-8	11.5	286
290	Plasma Epstein-Barr viral deoxyribonucleic acid quantitation complements tumor-node-metastasis staging prognostication in nasopharyngeal carcinoma. *Journal of Clinical Oncology*, **2006**, 24, 5414-8	2.2	285
289	Noninvasive detection of cancer-associated genome-wide hypomethylation and copy number aberrations by plasma DNA bisulfite sequencing. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 18761-8	11.5	267
288	Noninvasive prenatal diagnosis of monogenic diseases by digital size selection and relative mutation dosage on DNA in maternal plasma. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 19920-5	11.5	266
287	Prenatal exclusion of beta thalassaemia major by examination of maternal plasma. *Lancet, The*, **2002**, 360, 998-1000	40	238
286	Prognostic use of circulating plasma nucleic acid concentrations in patients with acute stroke. *Clinical Chemistry*, **2003**, 49, 562-9	5.5	235
285	Presence of Filterable and Nonfilterable mRNA in the Plasma of Cancer Patients and Healthy Individuals. *Clinical Chemistry*, **2002**, 48, 1212-1217	5.5	235
284	Presence of Fetal RNA in Maternal Plasma. *Clinical Chemistry*, **2000**, 46, 1832-1834	5.5	225
283	Maternal plasma fetal DNA as a marker for preterm labour. *Lancet, The*, **1998**, 352, 1904-5	40	220
282	Presence of donor-specific DNA in plasma of kidney and liver-transplant recipients. *Lancet, The*, **1998**, 351, 1329-30	40	220

281	Noninvasive prenatal diagnosis of fetal trisomy 18 and trisomy 13 by maternal plasma DNA sequencing. *PLoS ONE*, **2011**, 6, e21791	3.7	215
280	Noninvasive prenatal diagnosis of congenital adrenal hyperplasia using cell-free fetal DNA in maternal plasma. *Journal of Clinical Endocrinology and Metabolism*, **2014**, 99, E1022-30	5.6	210
279	Noninvasive prenatal diagnosis of hemophilia by microfluidics digital PCR analysis of maternal plasma DNA. *Blood*, **2011**, 117, 3684-91	2.2	199
278	Increased Maternal Plasma Fetal DNA Concentrations in Women Who Eventually Develop Preeclampsia.. *Clinical Chemistry*, **2001**, 47, 137-139	5.5	193
277	Detection of SARS coronavirus RNA in the cerebrospinal fluid of a patient with severe acute respiratory syndrome. *Clinical Chemistry*, **2003**, 49, 2108-9	5.5	189
276	The Long and Short of Circulating Cell-Free DNA and the Ins and Outs of Molecular Diagnostics. *Trends in Genetics*, **2016**, 32, 360-371	8.5	188
275	Antitumor Activity of Nivolumab in Recurrent and Metastatic Nasopharyngeal Carcinoma: An International, Multicenter Study of the Mayo Clinic Phase 2 Consortium (NCI-9742). *Journal of Clinical Oncology*, **2018**, 36, 1412-1418	2.2	185
274	Size-based molecular diagnostics using plasma DNA for noninvasive prenatal testing. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 8583-8	11.5	181
273	MS analysis of single-nucleotide differences in circulating nucleic acids: Application to noninvasive prenatal diagnosis. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 10762-7	11.5	179
272	Early diagnosis of SARS coronavirus infection by real time RT-PCR. *Journal of Clinical Virology*, **2003**, 28, 233-8	14.5	169
271	Differential DNA Methylation between Fetus and Mother as a Strategy for Detecting Fetal DNA in Maternal Plasma. *Clinical Chemistry*, **2002**, 48, 35-41	5.5	165
270	Prenatal diagnosis: progress through plasma nucleic acids. *Nature Reviews Genetics*, **2007**, 8, 71-7	30.1	164
269	Time course of early and late changes in plasma DNA in trauma patients. *Clinical Chemistry*, **2003**, 49, 1286-91	5.5	164
268	High-resolution profiling of fetal DNA clearance from maternal plasma by massively parallel sequencing. *Clinical Chemistry*, **2013**, 59, 1228-37	5.5	156
267	Male microchimerism in healthy women and women with scleroderma: cells or circulating DNA? A quantitative answer. *Blood*, **2002**, 100, 2845-51	2.2	154
266	Molecular characterization of circulating EBV DNA in the plasma of nasopharyngeal carcinoma and lymphoma patients. *Cancer Research*, **2003**, 63, 2028-32	10.1	151
265	Quantitative analysis of circulating mitochondrial DNA in plasma. *Clinical Chemistry*, **2003**, 49, 719-26	5.5	150
264	Tissue and cellular tropism of the coronavirus associated with severe acute respiratory syndrome: an in-situ hybridization study of fatal cases. *Journal of Pathology*, **2004**, 202, 157-63	9.4	149

263	The concentration of circulating corticotropin-releasing hormone mRNA in maternal plasma is increased in preeclampsia. *Clinical Chemistry*, **2003**, 49, 727-31	5.5	147
262	Predominant hematopoietic origin of cell-free DNA in plasma and serum after sex-mismatched bone marrow transplantation. *Clinical Chemistry*, **2002**, 48, 421-7	5.5	142
261	Effects of preanalytical factors on the molecular size of cell-free DNA in blood. *Clinical Chemistry*, **2005**, 51, 781-4	5.5	140
260	Integrative single-cell and cell-free plasma RNA transcriptomics elucidates placental cellular dynamics. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E7786-E7795	11.5	137
259	Diagnostic developments involving cell-free (circulating) nucleic acids. *Clinica Chimica Acta*, **2006**, 363, 187-96	6.2	136
258	Noninvasive prenatal detection of fetal trisomy 18 by epigenetic allelic ratio analysis in maternal plasma: Theoretical and empirical considerations. *Clinical Chemistry*, **2006**, 52, 2194-202	5.5	135
257	EDTA is a better anticoagulant than heparin or citrate for delayed blood processing for plasma DNA analysis. *Clinical Chemistry*, **2004**, 50, 256-7	5.5	132
256	Noninvasive prenatal diagnosis of monogenic diseases by targeted massively parallel sequencing of maternal plasma: application to □thalassemia. *Clinical Chemistry*, **2012**, 58, 1467-75	5.5	130
255	Pretherapy quantitative measurement of circulating Epstein-Barr virus DNA is predictive of posttherapy distant failure in patients with early-stage nasopharyngeal carcinoma of undifferentiated type. *Cancer*, **2003**, 98, 288-91	6.4	129
254	Noninvasive Prenatal Exclusion of Congenital Adrenal Hyperplasia by Maternal Plasma Analysis: A Feasibility Study. *Clinical Chemistry*, **2002**, 48, 778-780	5.5	127
253	Circulating nucleic acids in plasma/serum. *Pathology*, **2007**, 39, 197-207	1.6	126
252	Quantitative analysis and prognostic implication of SARS coronavirus RNA in the plasma and serum of patients with severe acute respiratory syndrome. *Clinical Chemistry*, **2003**, 49, 1976-80	5.5	125
251	Quantitative analysis of circulating methylated DNA as a biomarker for hepatocellular carcinoma. *Clinical Chemistry*, **2008**, 54, 1528-36	5.5	124
250	Host-response biomarkers for diagnosis of late-onset septicemia and necrotizing enterocolitis in preterm infants. *Journal of Clinical Investigation*, **2010**, 120, 2989-3000	15.9	123
249	Hypermethylation of RASSF1A in human and rhesus placentas. *American Journal of Pathology*, **2007**, 170, 941-50	5.8	118
248	The 3a protein of severe acute respiratory syndrome-associated coronavirus induces apoptosis in Vero E6 cells. *Journal of General Virology*, **2005**, 86, 1921-1930	4.9	118
247	Plasma Nucleic Acids in the Diagnosis and Management of Malignant Disease. *Clinical Chemistry*, **2002**, 48, 1186-1193	5.5	117
246	Early detection of nasopharyngeal carcinoma by plasma Epstein-Barr virus DNA analysis in a surveillance program. *Cancer*, **2013**, 119, 1838-44	6.4	112

245	Systematic search for placental DNA-methylation markers on chromosome 21: toward a maternal plasma-based epigenetic test for fetal trisomy 21. *Clinical Chemistry*, **2008**, 54, 500-11	5.5	112
244	Fetal DNA Clearance from Maternal Plasma Is Impaired in Preeclampsia. *Clinical Chemistry*, **2002**, 48, 2141-2146	5.5	110
243	An international collaboration to harmonize the quantitative plasma Epstein-Barr virus DNA assay for future biomarker-guided trials in nasopharyngeal carcinoma. *Clinical Cancer Research*, **2013**, 19, 2208-15	12.9	108
242	Noninvasive prenatal methylomic analysis by genomewide bisulfite sequencing of maternal plasma DNA. *Clinical Chemistry*, **2013**, 59, 1583-94	5.5	107
241	Maternal plasma DNA analysis with massively parallel sequencing by ligation for noninvasive prenatal diagnosis of trisomy 21. *Clinical Chemistry*, **2010**, 56, 459-63	5.5	107
240	Targeted massively parallel sequencing of maternal plasma DNA permits efficient and unbiased detection of fetal alleles. *Clinical Chemistry*, **2011**, 57, 92-101	5.5	104
239	Phase II study of neoadjuvant carboplatin and paclitaxel followed by radiotherapy and concurrent cisplatin in patients with locoregionally advanced nasopharyngeal carcinoma: therapeutic monitoring with plasma Epstein-Barr virus DNA. *Journal of Clinical Oncology*, **2004**, 22, 3053-60	2.2	103
238	Second generation noninvasive fetal genome analysis reveals de novo mutations, single-base parental inheritance, and preferred DNA ends. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E8159-E8168	11.5	99
237	Noninvasive prenatal detection of trisomy 21 by an epigenetic-genetic chromosome-dosage approach. *Clinical Chemistry*, **2010**, 56, 90-8	5.5	99
236	Cell-free nucleic acids in plasma, serum and urine: a new tool in molecular diagnosis. *Annals of Clinical Biochemistry*, **2003**, 40, 122-30	2.2	99
235	Cell-free DNA in serum and plasma: comparison of ELISA and quantitative PCR. *Clinical Chemistry*, **2005**, 51, 1544-6	5.5	94
234	Quantification of plasma beta-catenin mRNA in colorectal cancer and adenoma patients. *Clinical Cancer Research*, **2004**, 10, 1613-7	12.9	91
233	Analysis of Plasma Epstein-Barr Virus DNA in Nasopharyngeal Cancer After Chemoradiation to Identify High-Risk Patients for Adjuvant Chemotherapy: A Randomized Controlled Trial. *Journal of Clinical Oncology*, **2018**, JCO2018777847	2.2	90
232	Non-invasive prenatal diagnosis by single molecule counting technologies. *Trends in Genetics*, **2009**, 25, 324-31	8.5	89
231	Presence of Donor- and Recipient-derived DNA in Cell-free Urine Samples of Renal Transplantation Recipients: Urinary DNA Chimerism. *Clinical Chemistry*, **1999**, 45, 1741-1746	5.5	87
230	Improved accuracy of detection of nasopharyngeal carcinoma by combined application of circulating Epstein-Barr virus DNA and anti-Epstein-Barr viral capsid antigen IgA antibody. *Clinical Chemistry*, **2004**, 50, 339-45	5.5	86
229	Quantitative analysis of circulating cell-free Epstein-Barr virus (EBV) DNA levels in patients with EBV-associated lymphoid malignancies. *British Journal of Haematology*, **2000**, 111, 239-46	4.5	85
228	Relationship between pretreatment level of plasma Epstein-Barr virus DNA, tumor burden, and metabolic activity in advanced nasopharyngeal carcinoma. *International Journal of Radiation Oncology Biology Physics*, **2006**, 66, 714-20	4	84

227	Orientation-aware plasma cell-free DNA fragmentation analysis in open chromatin regions informs tissue of origin. *Genome Research*, **2019**, 29, 418-427	9.7	81
226	Fetal cell-free plasma DNA concentrations in maternal blood are stable 24 hours after collection: analysis of first- and third-trimester samples. *Clinical Chemistry*, **2003**, 49, 195-8	5.5	81
225	Nonhematopoietically derived DNA is shorter than hematopoietically derived DNA in plasma: a transplantation model. *Clinical Chemistry*, **2012**, 58, 549-58	5.5	80
224	Plasma DNA aberrations in systemic lupus erythematosus revealed by genomic and methylomic sequencing. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E5302-11	11.5	79
223	Maternal plasma fetal DNA fractions in pregnancies with low and high risks for fetal chromosomal aneuploidies. *PLoS ONE*, **2014**, 9, e88484	3.7	78
222	Prenatal Diagnosis Innovation: Genome Sequencing of Maternal Plasma. *Annual Review of Medicine*, **2016**, 67, 419-32	17.4	75
221	Sequencing-based counting and size profiling of plasma Epstein-Barr virus DNA enhance population screening of nasopharyngeal carcinoma. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E5115-E5124	11.5	75
220	Serum proteomic fingerprints of adult patients with severe acute respiratory syndrome. *Clinical Chemistry*, **2006**, 52, 421-9	5.5	74
219	Plasma mitochondrial DNA concentrations after trauma. *Clinical Chemistry*, **2004**, 50, 213-6	5.5	74
218	Preferred end coordinates and somatic variants as signatures of circulating tumor DNA associated with hepatocellular carcinoma. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E10925-E10933	11.5	73
217	Size-tagged preferred ends in maternal plasma DNA shed light on the production mechanism and show utility in noninvasive prenatal testing. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E5106-E5114	11.5	72
216	deletion causes aberrations in length and end-motif frequencies in plasma DNA. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 641-649	11.5	70
215	A phase II study of patients with metastatic or locoregionally recurrent nasopharyngeal carcinoma and evaluation of plasma Epstein-Barr virus DNA as a biomarker of efficacy. *Cancer Chemotherapy and Pharmacology*, **2008**, 62, 59-64	3.5	67
214	High resolution size analysis of fetal DNA in the urine of pregnant women by paired-end massively parallel sequencing. *PLoS ONE*, **2012**, 7, e48319	3.7	67
213	Universal Haplotype-Based Noninvasive Prenatal Testing for Single Gene Diseases. *Clinical Chemistry*, **2017**, 63, 513-524	5.5	66
212	Noninvasive prenatal molecular karyotyping from maternal plasma. *PLoS ONE*, **2013**, 8, e60968	3.7	66
211	ACE2 gene polymorphisms do not affect outcome of severe acute respiratory syndrome. *Clinical Chemistry*, **2004**, 50, 1683-6	5.5	65
210	Origin of plasma cell-free DNA after solid organ transplantation. *Clinical Chemistry*, **2003**, 49, 495-6	5.5	64

209	Persistent aberrations in circulating DNA integrity after radiotherapy are associated with poor prognosis in nasopharyngeal carcinoma patients. *Clinical Cancer Research*, **2008**, 14, 4141-5	12.9	63
208	Maternal plasma RNA sequencing for genome-wide transcriptomic profiling and identification of pregnancy-associated transcripts. *Clinical Chemistry*, **2014**, 60, 954-62	5.5	62
207	Noninvasive twin zygosity assessment and aneuploidy detection by maternal plasma DNA sequencing. *Prenatal Diagnosis*, **2013**, 33, 675-81	3.2	62
206	Quantitative aberrations of hypermethylated RASSF1A gene sequences in maternal plasma in pre-eclampsia. *Prenatal Diagnosis*, **2007**, 27, 1212-8	3.2	62
205	Coronavirus genomic-sequence variations and the epidemiology of the severe acute respiratory syndrome. *New England Journal of Medicine*, **2003**, 349, 187-8	59.2	61
204	Serial analysis of the plasma concentration of SARS coronavirus RNA in pediatric patients with severe acute respiratory syndrome. *Clinical Chemistry*, **2003**, 49, 2085-8	5.5	58
203	Genomic analysis of fetal nucleic acids in maternal blood. *Annual Review of Genomics and Human Genetics*, **2012**, 13, 285-306	9.7	56
202	Noninvasive prenatal determination of twin zygosity by maternal plasma DNA analysis. *Clinical Chemistry*, **2013**, 59, 427-35	5.5	55
201	FetalQuant: deducing fractional fetal DNA concentration from massively parallel sequencing of DNA in maternal plasma. *Bioinformatics*, **2012**, 28, 2883-90	7.2	55
200	Circulating corticotropin-releasing hormone mRNA in maternal plasma: relationship with gestational age and severity of preeclampsia. *Clinical Chemistry*, **2004**, 50, 1851-4	5.5	55
199	Epigenetics, fragmentomics, and topology of cell-free DNA in liquid biopsies. *Science*, **2021**, 372,	33.3	55
198	Circulating nucleic acids in plasma and serum: an overview. *Annals of the New York Academy of Sciences*, **2001**, 945, 1-7	6.5	53
197	Differential DNA methylation between fetus and mother as a strategy for detecting fetal DNA in maternal plasma. *Clinical Chemistry*, **2002**, 48, 35-41	5.5	53
196	Non-invasive prenatal diagnosis by fetal nucleic acid analysis in maternal plasma: the coming of age. *Seminars in Fetal and Neonatal Medicine*, **2011**, 16, 88-93	3.7	52
195	Fifty years of molecular (DNA/RNA) diagnostics. *Clinical Chemistry*, **2005**, 51, 661-71	5.5	51
194	Circulating placental RNA in maternal plasma is associated with a preponderance of 5' mRNA fragments: implications for noninvasive prenatal diagnosis and monitoring. *Clinical Chemistry*, **2005**, 51, 1786-95	5.5	51
193	Prenatal detection of fetal Down's syndrome from maternal plasma. *Lancet, The*, **2000**, 356, 1819-20	40	51
192	Synergy of total PLAC4 RNA concentration and measurement of the RNA single-nucleotide polymorphism allelic ratio for the noninvasive prenatal detection of trisomy 21. *Clinical Chemistry*, **2010**, 56, 73-81	5.5	50

191	Quantitative analysis of the transrenal excretion of circulating EBV DNA in nasopharyngeal carcinoma patients. *Clinical Cancer Research*, **2008**, 14, 4809-13	12.9	50
190	Noninvasive prenatal diagnosis of fetal trisomy 21 by allelic ratio analysis using targeted massively parallel sequencing of maternal plasma DNA. *PLoS ONE*, **2012**, 7, e38154	3.7	50
189	Noninvasive prenatal diagnosis of fetal chromosomal aneuploidies by maternal plasma nucleic acid analysis. *Clinical Chemistry*, **2008**, 54, 461-6	5.5	49
188	Fetomaternal cellular and plasma DNA trafficking: the Yin and the Yang. *Annals of the New York Academy of Sciences*, **2001**, 945, 119-31	6.5	48
187	Quantitative analysis of Epstein-Barr virus DNA in plasma and serum: applications to tumor detection and monitoring. *Annals of the New York Academy of Sciences*, **2001**, 945, 68-72	6.5	48
186	Lack of dramatic enrichment of fetal DNA in maternal plasma by formaldehyde treatment. *Clinical Chemistry*, **2005**, 51, 655-8	5.5	48
185	Liver- and Colon-Specific DNA Methylation Markers in Plasma for Investigation of Colorectal Cancers with or without Liver Metastases. *Clinical Chemistry*, **2018**, 64, 1239-1249	5.5	47
184	Genome-wide expression analysis using microarray identified complex signaling pathways modulated by hypoxia in nasopharyngeal carcinoma. *Cancer Letters*, **2007**, 253, 74-88	9.9	46
183	The Biology of Cell-free DNA Fragmentation and the Roles of DNASE1, DNASE1L3, and DFFB. *American Journal of Human Genetics*, **2020**, 106, 202-214	11	45
182	DNA of Erythroid Origin Is Present in Human Plasma and Informs the Types of Anemia. *Clinical Chemistry*, **2017**, 63, 1614-1623	5.5	44
181	Cell-free DNA in maternal plasma and serum: A comparison of quantity, quality and tissue origin using genomic and epigenomic approaches. *Clinical Biochemistry*, **2016**, 49, 1379-1386	3.5	43
180	Genomewide bisulfite sequencing reveals the origin and time-dependent fragmentation of urinary cfDNA. *Clinical Biochemistry*, **2017**, 50, 496-501	3.5	42
179	Plasma DNA End-Motif Profiling as a Fragmentomic Marker in Cancer, Pregnancy, and Transplantation. *Cancer Discovery*, **2020**, 10, 664-673	24.4	42
178	Recent advances in fetal nucleic acids in maternal plasma. *Journal of Histochemistry and Cytochemistry*, **2005**, 53, 293-6	3.4	42
177	Plasma beta-globin DNA as a prognostic marker in chest pain patients. *Clinica Chimica Acta*, **2006**, 368, 110-3	6.2	42
176	Fetal RhD genotyping from maternal plasma. *Annals of Medicine*, **1999**, 31, 308-12	1.5	42
175	Noninvasive Prenatal Screening for Genetic Diseases Using Massively Parallel Sequencing of Maternal Plasma DNA. *Cold Spring Harbor Perspectives in Medicine*, **2015**, 5, a023085	5.4	41
174	Time profile of appearance and disappearance of circulating placenta-derived mRNA in maternal plasma. *Clinical Chemistry*, **2006**, 52, 313-6	5.5	41

173	Evaluation of human chorionic gonadotropin beta-subunit mRNA concentrations in maternal serum in aneuploid pregnancies: a feasibility study. *Clinical Chemistry*, **2004**, 50, 1055-7	5.5	40
172	Comparison of plasma beta-globin DNA and S-100 protein concentrations in acute stroke. *Clinica Chimica Acta*, **2007**, 376, 190-6	6.2	39
171	Investigation into the origin and tumoral mass correlation of plasma Epstein-Barr virus DNA in nasopharyngeal carcinoma. *Clinical Chemistry*, **2005**, 51, 2192-5	5.5	39
170	Non-invasive prenatal testing using massively parallel sequencing of maternal plasma DNA: from molecular karyotyping to fetal whole-genome sequencing. *Reproductive BioMedicine Online*, **2013**, 27, 593-8	4	38
169	Methy-Pipe: an integrated bioinformatics pipeline for whole genome bisulfite sequencing data analysis. *PLoS ONE*, **2014**, 9, e100360	3.7	38
168	Noninvasive detection of -related inversions and sequence variants in maternal plasma of hemophilia carriers. *Blood*, **2017**, 130, 340-347	2.2	37
167	Clinical applications of maternal plasma fetal DNA analysis: translating the fruits of 15 years of research. *Clinical Chemistry and Laboratory Medicine*, **2013**, 51, 197-204	5.9	37
166	Tracing SARS-coronavirus variant with large genomic deletion. *Emerging Infectious Diseases*, **2005**, 11, 168-70	10.2	36
165	Identification and characterization of extrachromosomal circular DNA in maternal plasma. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 1658-1665	11.5	36
164	Detection of trisomy 21 by quantitative mass spectrometric analysis of single-nucleotide polymorphisms. *Clinical Chemistry*, **2005**, 51, 2358-62	5.5	34
163	Detection of Plasmodium falciparum DNA in plasma. *Annals of the New York Academy of Sciences*, **2001**, 945, 234-8	6.5	33
162	Epigenetic-genetic chromosome dosage approach for fetal trisomy 21 detection using an autosomal genetic reference marker. *PLoS ONE*, **2010**, 5, e15244	3.7	32
161	Serologic antienzyme rate of Epstein-Barr virus DNase-specific neutralizing antibody segregates TNM classification in nasopharyngeal carcinoma. *Journal of Clinical Oncology*, **2010**, 28, 5202-9	2.2	31
160	Epigenetic Tumor Markers in Plasma and Serum. *Annals of the New York Academy of Sciences*, **2006**, 945, 36-50	6.5	31
159	The biology and diagnostic applications of fetal DNA and RNA in maternal plasma. *Current Topics in Developmental Biology*, **2004**, 61, 81-111	5.3	31
158	Circulating DNA in plasma and serum: biology, preanalytical issues and diagnostic applications. *Clinical Chemistry and Laboratory Medicine*, **2002**, 40, 962-8	5.9	31
157	Plasma Epstein-Barr virus DNA as an archetypal circulating tumour DNA marker. *Journal of Pathology*, **2019**, 247, 641-649	9.4	30
156	Noninvasive prenatal testing by nanopore sequencing of maternal plasma DNA: feasibility assessment. *Clinical Chemistry*, **2015**, 61, 1305-6	5.5	30

155	Methylation analysis of plasma DNA informs etiologies of Epstein-Barr virus-associated diseases. *Nature Communications*, **2019**, 10, 3256	17.4	30
154	Next-generation sequencing of plasma/serum DNA: an emerging research and molecular diagnostic tool. *Clinical Chemistry*, **2009**, 55, 607-8	5.5	30
153	A strategy for identifying circulating placental RNA markers for fetal growth assessment. *Prenatal Diagnosis*, **2009**, 29, 495-504	3.2	28
152	Synthetic peptide studies on the severe acute respiratory syndrome (SARS) coronavirus spike glycoprotein: perspective for SARS vaccine development. *Clinical Chemistry*, **2004**, 50, 1036-42	5.5	28
151	Absence of association between angiotensin converting enzyme polymorphism and development of adult respiratory distress syndrome in patients with severe acute respiratory syndrome: a case control study. *BMC Infectious Diseases*, **2005**, 5, 26	4	28
150	Non-invasive prenatal detection of fetal trisomy 18 by RNA-SNP allelic ratio analysis using maternal plasma SERPINB2 mRNA: a feasibility study. *Prenatal Diagnosis*, **2009**, 29, 1031-7	3.2	27
149	Serial analysis of plasma proteomic signatures in pediatric patients with severe acute respiratory syndrome and correlation with viral load. *Clinical Chemistry*, **2004**, 50, 1452-5	5.5	27
148	Quantitative analysis of pleural fluid cell-free DNA as a tool for the classification of pleural effusions. *Clinical Chemistry*, **2003**, 49, 740-5	5.5	27
147	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. *Clinical Chemistry*, **2007**, 53, 1906-14	5.5	26
146	Serial analysis of fetal DNA concentrations in maternal plasma in late pregnancy. *Clinical Chemistry*, **2003**, 49, 678-80	5.5	26
145	Placenta-derived fetal specific mRNA is more readily detectable in maternal plasma than in whole blood. *PLoS ONE*, **2009**, 4, e5858	3.7	26
144	Non-invasive prenatal diagnosis by massively parallel sequencing of maternal plasma DNA. *Open Biology*, **2012**, 2, 120086	7	25
143	Fetal DNA in maternal plasma. *Annals of the New York Academy of Sciences*, **2000**, 906, 141-7	6.5	25
142	The biology and diagnostic applications of plasma RNA. *Annals of the New York Academy of Sciences* , **2004**, 1022, 135-9	6.5	25
141	Application of fetal DNA in maternal plasma for noninvasive prenatal diagnosis. *Expert Review of Molecular Diagnostics*, **2002**, 2, 32-40	3.8	25
140	Noninvasive fetal genomic, methylomic, and transcriptomic analyses using maternal plasma and clinical implications. *Trends in Molecular Medicine*, **2015**, 21, 98-108	11.5	24
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