# Dennis Lo

List of Publications by Year
in descending order



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|---|---|---|---|
| 325 papers | 35,908 citations | 2538 96 h-index | 3638 180 g-index |
| 336 all docs | 336 docs citations | 336 times ranked | 21392 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Presence of fetal DNA in maternal plasma and serum. Lancet, The, 1997, 350, 485-487. | 6.3 | 2,657 |
| 2 | Quantitative Analysis of Fetal DNA in Maternal Plasma and Serum: Implications for Noninvasive Prenatal Diagnosis. American Journal of Human Genetics, 1998, 62, 768-775. | 2.6 | 1,512 |
| 3 | Rapid Clearance of Fetal DNA from Maternal Plasma. American Journal of Human Genetics, 1999, 64, 218-224. | 2.6 | 1,006 |
| 4 | Maternal Plasma DNA Sequencing Reveals the Genome-Wide Genetic and Mutational Profile of the Fetus. Science Translational Medicine, 2010, 2, 61ra91. | 5.8 | 878 |
| 5 | 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, 20458-20463. | 3.3 | 809 |
| 6 | Detection and Characterization of Placental MicroRNAs in Maternal Plasma. Clinical Chemistry, 2008, 54, 482-490. | 1.5 | 775 |
| 7 | Prenatal Diagnosis of Fetal RhD Status by Molecular Analysis of Maternal Plasma. New England Journal of Medicine, 1998, 339, 1734-1738. | 13.9 | 676 |
| 8 | Non-invasive prenatal assessment of trisomy 21 by multiplexed maternal plasma DNA sequencing: large scale validity study. BMJ: British Medical Journal, 2011, 342, c7401-c7401. | 2.4 | 641 |
| 9 | 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. | 3.3 | 579 |
| 10 | 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. | 3.3 | 543 |
| 11 | Stability of Endogenous and Added RNA in Blood Specimens, Serum, and Plasma. Clinical Chemistry, 2002, 48, 1647-1653. | 1.5 | 536 |
| 12 | Analysis of Plasma Epsteinâ€“Barr Virus DNA to Screen for Nasopharyngeal Cancer. New England Journal of Medicine, 2017, 377, 513-522. | 13.9 | 531 |
| 13 | Effects of early corticosteroid treatment on plasma SARS-associated Coronavirus RNA concentrations in adult patients. Journal of Clinical Virology, 2004, 31, 304-309. | 1.6 | 516 |
| 14 | Size Distributions of Maternal and Fetal DNA in Maternal Plasma. Clinical Chemistry, 2004, 50, 88-92. | 1.5 | 512 |
| 15 | Predominant Hematopoietic Origin of Cell-free DNA in Plasma and Serum after Sex-mismatched Bone Marrow Transplantation. Clinical Chemistry, 2002, 48, 421-427. | 1.5 | 483 |
| 16 | Quantitative Abnormalities of Fetal DNA in Maternal Serum in Preeclampsia. Clinical Chemistry, 1999, 45, 184-188. | 1.5 | 468 |
| 17 | Microfluidics Digital PCR Reveals a Higher than Expected Fraction of Fetal DNA in Maternal Plasma. Clinical Chemistry, 2008, 54, 1664-1672. | 1.5 | 396 |
| 18 | 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, 13116-13121. | 3.3 | 387 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Plasma Epstein-Barr Virus DNA and Residual Disease After Radiotherapy for Undifferentiated Nasopharyngeal Carcinoma. Journal of the National Cancer Institute, 2002, 94, 1614-1619. | 3.0 | 384 |
| 20 | Single-Molecule Detection of Epidermal Growth Factor Receptor Mutations in Plasma by Microfluidics Digital PCR in Nonâ€“Small Cell Lung Cancer Patients. Clinical Cancer Research, 2009, 15, 2076-2084. | 3.2 | 371 |
| 21 | 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, 4748-4753. | 3.3 | 363 |
| 22 | 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, 18761-18768. | 3.3 | 363 |
| 23 | Plasma placental RNA allelic ratio permits noninvasive prenatal chromosomal aneuploidy detection. Nature Medicine, 2007, 13, 218-223. | 15.2 | 359 |
| 24 | Plasma Epstein-Barr Viral Deoxyribonucleic Acid Quantitation Complements Tumor-Node-Metastasis Staging Prognostication in Nasopharyngeal Carcinoma. Journal of Clinical Oncology, 2006, 24, 5414-5418. | 0.8 | 346 |
| 25 | Effects of Blood-Processing Protocols on Fetal and Total DNA Quantification in Maternal Plasma. Clinical Chemistry, 2001, 47, 1607-1613. | 1.5 | 330 |
| 26 | Plasma DNA as a Prognostic Marker in Trauma Patients. Clinical Chemistry, 2000, 46, 319-323. | 1.5 | 328 |
| 27 | 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. | 0.8 | 324 |
| 28 | Hypermethylated RASSF1A in Maternal Plasma: A Universal Fetal DNA Marker that Improves the Reliability of Noninvasive Prenatal Diagnosis. Clinical Chemistry, 2006, 52, 2211-2218. | 1.5 | 319 |
| 29 | 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, 19920-19925. | 3.3 | 310 |
| 30 | 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, 14753-14758. | 3.3 | 307 |
| 31 | Noninvasive Prenatal Diagnosis of Congenital Adrenal Hyperplasia Using Cell-Free Fetal DNA in Maternal Plasma. Journal of Clinical Endocrinology and Metabolism, 2014, 99, E1022-E1030. | 1.8 | 270 |
| 32 | Prenatal exclusion of Î² thalassaemia major by examination of maternal plasma. Lancet, The, 2002, 360, 998-1000. | 6.3 | 267 |
| 33 | Presence of donor-specific DNA in plasma of kidney and liver-transplant recipients. Lancet, The, 1998, 351, 1329-1330. | 6.3 | 266 |
| 34 | Prognostic Use of Circulating Plasma Nucleic Acid Concentrations in Patients with Acute Stroke. Clinical Chemistry, 2003, 49, 562-569. | 1.5 | 265 |
| 35 | Epigenetics, fragmentomics, and topology of cell-free DNA in liquid biopsies. Science, 2021, 372, . | 6.0 | 263 |
| 36 | Presence of Fetal RNA in Maternal Plasma. Clinical Chemistry, 2000, 46, 1832-1834. | 1.5 | 258 |

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|---|---|---|---|
| 37 | Presence of Filterable and Nonfilterable mRNA in the Plasma of Cancer Patients and Healthy Individuals. Clinical Chemistry, 2002, 48, 1212-1217. | 1.5 | 255 |
| 38 | Maternal plasma fetal DNA as a marker for preterm labour. Lancet, The, 1998, 352, 1904-1905. | 6.3 | 247 |
| 39 | Noninvasive Prenatal Diagnosis of Fetal Trisomy 18 and Trisomy 13 by Maternal Plasma DNA Sequencing. PLoS ONE, 2011, 6, e21791. | 1.1 | 243 |
| 40 | 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. | 3.3 | 242 |
| 41 | The Long and Short of Circulating Cell-Free DNA and the Ins and Outs of Molecular Diagnostics. Trends in Genetics, 2016, 32, 360-371. | 2.9 | 240 |
| 42 | Detection of SARS Coronavirus RNA in the Cerebrospinal Fluid of a Patient with Severe Acute Respiratory Syndrome. Clinical Chemistry, 2003, 49, 2108-2109. | 1.5 | 233 |
| 43 | 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, 8583-8588. | 3.3 | 233 |
| 44 | Noninvasive prenatal diagnosis of hemophilia by microfluidics digital PCR analysis of maternal plasma DNA. Blood, 2011, 117, 3684-3691. | 0.6 | 232 |
| 45 | Increased Maternal Plasma Fetal DNA Concentrations in Women Who Eventually Develop Preeclampsia.. Clinical Chemistry, 2001, 47, 137-139. | 1.5 | 211 |
| 46 | High-Resolution Profiling of Fetal DNA Clearance from Maternal Plasma by Massively Parallel Sequencing. Clinical Chemistry, 2013, 59, 1228-1237. | 1.5 | 202 |
| 47 | Early diagnosis of SARS Coronavirus infection by real time RT-PCR. Journal of Clinical Virology, 2003, 28, 233-238. | 1.6 | 194 |
| 48 | 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, 10762-10767. | 3.3 | 193 |
| 49 | Predominant hematopoietic origin of cell-free DNA in plasma and serum after sex-mismatched bone marrow transplantation. Clinical Chemistry, 2002, 48, 421-7. | 1.5 | 193 |
| 50 | Differential DNA Methylation between Fetus and Mother as a Strategy for Detecting Fetal DNA in Maternal Plasma. Clinical Chemistry, 2002, 48, 35-41. | 1.5 | 181 |
| 51 | Quantitative Analysis of Circulating Mitochondrial DNA in Plasma. Clinical Chemistry, 2003, 49, 719-726. | 1.5 | 181 |
| 52 | Molecular characterization of circulating EBV DNA in the plasma of nasopharyngeal carcinoma and lymphoma patients. Cancer Research, 2003, 63, 2028-32. | 0.4 | 181 |
| 53 | Male microchimerism in healthy women and women with scleroderma: cells or circulating DNA? A quantitative answer. Blood, 2002, 100, 2845-2851. | 0.6 | 179 |
| 54 | Time Course of Early and Late Changes in Plasma DNA in Trauma Patients. Clinical Chemistry, 2003, 49, 1286-1291. | 1.5 | 179 |

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|---|---|---|---|
| 55 | Prenatal diagnosis: progress through plasma nucleic acids. Nature Reviews Genetics, 2007, 8, 71-77. | 7.7 | 176 |
| 56 | Effects of Preanalytical Factors on the Molecular Size of Cell-Free DNA in Blood. Clinical Chemistry, 2005, 51, 781-784. | 1.5 | 172 |
| 57 | 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, 157-163. | 2.1 | 168 |
| 58 | The Concentration of Circulating Corticotropin-releasing Hormone mRNA in Maternal Plasma Is Increased in Preeclampsia. Clinical Chemistry, 2003, 49, 727-731. | 1.5 | 161 |
| 59 | Orientation-aware plasma cell-free DNA fragmentation analysis in open chromatin regions informs tissue of origin. Genome Research, 2019, 29, 418-427. | 2.4 | 159 |
| 60 | EDTA Is a Better Anticoagulant than Heparin or Citrate for Delayed Blood Processing for Plasma DNA Analysis. Clinical Chemistry, 2004, 50, 256-257. | 1.5 | 158 |
| 61 | Noninvasive Prenatal Diagnosis of Monogenic Diseases by Targeted Massively Parallel Sequencing of Maternal Plasma: Application to Î²-Thalassemia. Clinical Chemistry, 2012, 58, 1467-1475. | 1.5 | 157 |
| 62 | Noninvasive Prenatal Detection of Fetal Trisomy 18 by Epigenetic Allelic Ratio Analysis in Maternal Plasma: Theoretical and Empirical Considerations. Clinical Chemistry, 2006, 52, 2194-2202. | 1.5 | 156 |
| 63 | Diagnostic developments involving cell-free (circulating) nucleic acids. Clinica Chimica Acta, 2006, 363, 187-196. | 0.5 | 155 |
| 64 | 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, 288-291. | 2.0 | 154 |
| 65 | Plasma DNA End-Motif Profiling as a Fragmentomic Marker in Cancer, Pregnancy, and Transplantation. Cancer Discovery, 2020, 10, 664-673. | 7.7 | 152 |
| 66 | Circulating nucleic acids in plasma/serum. Pathology, 2007, 39, 197-207. | 0.3 | 151 |
| 67 | 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, 2208-2215. | 3.2 | 149 |
| 68 | 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, 1976-1980. | 1.5 | 148 |
| 69 | 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, 36, 3091-3100. | 0.8 | 147 |
| 70 | Host-response biomarkers for diagnosis of late-onset septicemia and necrotizing enterocolitis in preterm infants. Journal of Clinical Investigation, 2010, 120, 2989-3000. | 3.9 | 146 |
| 71 | Noninvasive Prenatal Exclusion of Congenital Adrenal Hyperplasia by Maternal Plasma Analysis: A Feasibility Study. Clinical Chemistry, 2002, 48, 778-780. | 1.5 | 145 |
| 72 | 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. | 3.3 | 142 |

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|---|---|---|---|
| 73 | Quantitative Analysis of Circulating Methylated DNA as a Biomarker for Hepatocellular Carcinoma. Clinical Chemistry, 2008, 54, 1528-1536. | 1.5 | 141 |
| 74 | 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. | 3.3 | 140 |
| 75 | Early detection of nasopharyngeal carcinoma by plasma Epsteinâ€Barr virus DNA analysis in a surveillance program. Cancer, 2013, 119, 1838-1844. | 2.0 | 137 |
| 76 | The 3a protein of severe acute respiratory syndrome-associated coronavirus induces apoptosis in Vero E6 cells. Journal of General Virology, 2005, 86, 1921-1930. | 1.3 | 135 |
| 77 | Plasma Nucleic Acids in the Diagnosis and Management of Malignant Disease. Clinical Chemistry, 2002, 48, 1186-1193. | 1.5 | 134 |
| 78 | Dnase1l3 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. | 3.3 | 134 |
| 79 | Noninvasive Prenatal Methylomic Analysis by Genomewide Bisulfite Sequencing of Maternal Plasma DNA. Clinical Chemistry, 2013, 59, 1583-1594. | 1.5 | 131 |
| 80 | Hypermethylation of RASSF1A in Human and Rhesus Placentas. American Journal of Pathology, 2007, 170, 941-950. | 1.9 | 128 |
| 81 | The Biology of Cell-free DNA Fragmentation and the Roles of DNASE1, DNASE1L3, and DFFB. American Journal of Human Genetics, 2020, 106, 202-214. | 2.6 | 127 |
| 82 | 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, 3053-3060. | 0.8 | 125 |
| 83 | Maternal Plasma DNA Analysis with Massively Parallel Sequencing by Ligation for Noninvasive Prenatal Diagnosis of Trisomy 21. Clinical Chemistry, 2010, 56, 459-463. | 1.5 | 125 |
| 84 | 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, 500-511. | 1.5 | 123 |
| 85 | Fetal DNA Clearance from Maternal Plasma Is Impaired in Preeclampsia. Clinical Chemistry, 2002, 48, 2141-2146. | 1.5 | 118 |
| 86 | Noninvasive Prenatal Detection of Trisomy 21 by an Epigeneticâ€“Genetic Chromosome-Dosage Approach. Clinical Chemistry, 2010, 56, 90-98. | 1.5 | 115 |
| 87 | Cell-free nucleic acids in plasma, serum and urine: a new tool in molecular diagnosis. Annals of Clinical Biochemistry, 2003, 40, 122-130. | 0.8 | 114 |
| 88 | Sequencing-based counting and size profiling of plasma Epsteinâ€“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. | 3.3 | 114 |
| 89 | Cell-Free DNA in Serum and Plasma: Comparison of ELISA and Quantitative PCR. Clinical Chemistry, 2005, 51, 1544-1546. | 1.5 | 111 |
| 90 | Targeted Massively Parallel Sequencing of Maternal Plasma DNA Permits Efficient and Unbiased Detection of Fetal Alleles. Clinical Chemistry, 2011, 57, 92-101. | 1.5 | 111 |

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| 91 | 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. | 3.3 | 107 |
| 92 | 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. | 3.3 | 106 |
| 93 | Circulating biomarkers in the diagnosis and management of hepatocellular carcinoma. Nature Reviews Gastroenterology and Hepatology, 2022, 19, 670-681. | 8.2 | 106 |
| 94 | Improved Accuracy of Detection of Nasopharyngeal Carcinoma by Combined Application of Circulating Epsteinâ€“Barr Virus DNA and Anti-Epsteinâ€“Barr Viral Capsid Antigen IgA Antibody. Clinical Chemistry, 2004, 50, 339-345. | 1.5 | 105 |
| 95 | Quantification of Plasma Î²-Catenin mRNA in Colorectal Cancer and Adenoma Patients. Clinical Cancer Research, 2004, 10, 1613-1617. | 3.2 | 105 |
| 96 | 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, 714-720. | 0.4 | 105 |
| 97 | 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. | 3.3 | 105 |
| 98 | 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. | 1.5 | 104 |
| 99 | Nonhematopoietically Derived DNA Is Shorter than Hematopoietically Derived DNA in Plasma: A Transplantation Model. Clinical Chemistry, 2012, 58, 549-558. | 1.5 | 103 |
| 100 | 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, 239-246. | 1.2 | 102 |
| 101 | Prenatal Diagnosis Innovation: Genome Sequencing of Maternal Plasma. Annual Review of Medicine, 2016, 67, 419-432. | 5.0 | 97 |
| 102 | Plasma Mitochondrial DNA Concentrations after Trauma. Clinical Chemistry, 2004, 50, 213-216. | 1.5 | 95 |
| 103 | Non-invasive prenatal diagnosis by single molecule counting technologies. Trends in Genetics, 2009, 25, 324-331. | 2.9 | 95 |
| 104 | Maternal Plasma Fetal DNA Fractions in Pregnancies with Low and High Risks for Fetal Chromosomal Aneuploidies. PLoS ONE, 2014, 9, e88484. | 1.1 | 92 |
| 105 | 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, 195-198. | 1.5 | 91 |
| 106 | Universal Haplotype-Based Noninvasive Prenatal Testing for Single Gene Diseases. Clinical Chemistry, 2017, 63, 513-524. | 1.5 | 89 |
| 107 | High Resolution Size Analysis of Fetal DNA in the Urine of Pregnant Women by Paired-End Massively Parallel Sequencing. PLoS ONE, 2012, 7, e48319. | 1.1 | 86 |
| 108 | Serum Proteomic Fingerprints of Adult Patients with Severe Acute Respiratory Syndrome. Clinical Chemistry, 2006, 52, 421-429. | 1.5 | 83 |

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|---|---|---|---|
| 109 | A phase II study of patients with metastatic or locoregionally recurrent nasopharyngeal carcinoma and evaluation of plasma Epsteinâ€“Barr virus DNA as a biomarker of efficacy. Cancer Chemotherapy and Pharmacology, 2008, 62, 59-64. | 1.1 | 82 |
| 110 | Maternal Plasma RNA Sequencing for Genome-Wide Transcriptomic Profiling and Identification of Pregnancy-Associated Transcripts. Clinical Chemistry, 2014, 60, 954-962. | 1.5 | 80 |
| 111 | ACE2 Gene Polymorphisms Do Not Affect Outcome of Severe Acute Respiratory Syndrome. Clinical Chemistry, 2004, 50, 1683-1686. | 1.5 | 76 |
| 112 | Noninvasive twin zygosity assessment and aneuploidy detection by maternal plasma DNA sequencing. Prenatal Diagnosis, 2013, 33, 675-681. | 1.1 | 75 |
| 113 | Noninvasive Prenatal Molecular Karyotyping from Maternal Plasma. PLoS ONE, 2013, 8, e60968. | 1.1 | 70 |
| 114 | Origin of Plasma Cell-free DNA after Solid Organ Transplantation. Clinical Chemistry, 2003, 49, 495-496. | 1.5 | 69 |
| 115 | Coronavirus Genomic-Sequence Variations and the Epidemiology of the Severe Acute Respiratory Syndrome. New England Journal of Medicine, 2003, 349, 187-188. | 13.9 | 68 |
| 116 | Persistent Aberrations in Circulating DNA Integrity after Radiotherapy Are Associated with Poor Prognosis in Nasopharyngeal Carcinoma Patients. Clinical Cancer Research, 2008, 14, 4141-4145. | 3.2 | 68 |
| 117 | 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. | 1.1 | 67 |
| 118 | Serial Analysis of the Plasma Concentration of SARS Coronavirus RNA in Pediatric Patients with Severe Acute Respiratory Syndrome. Clinical Chemistry, 2003, 49, 2085-2088. | 1.5 | 66 |
| 119 | Quantitative aberrations of hypermethylated RASSF1A gene sequences in maternal plasma in preâ€eclampsia. Prenatal Diagnosis, 2007, 27, 1212-1218. | 1.1 | 66 |
| 120 | The Nexus of cfDNA and Nuclease Biology. Trends in Genetics, 2021, 37, 758-770. | 2.9 | 66 |
| 121 | FetalQuant: deducing fractional fetal DNA concentration from massively parallel sequencing of DNA in maternal plasma. Bioinformatics, 2012, 28, 2883-2890. | 1.8 | 65 |
| 122 | Genome-wide detection of cytosine methylation by single molecule real-time sequencing. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 3.3 | 65 |
| 123 | Circulating Nucleic Acids in Plasma and Serum: An Overview. Annals of the New York Academy of Sciences, 2001, 945, 1-7. | 1.8 | 64 |
| 124 | Noninvasive Prenatal Determination of Twin Zygosity by Maternal Plasma DNA Analysis. Clinical Chemistry, 2013, 59, 427-435. | 1.5 | 64 |
| 125 | Noninvasive Prenatal Diagnosis of Fetal Chromosomal Aneuploidies by Maternal Plasma Nucleic Acid Analysis. Clinical Chemistry, 2008, 54, 461-466. | 1.5 | 63 |
| 126 | Genomic Analysis of Fetal Nucleic Acids in Maternal Blood. Annual Review of Genomics and Human Genetics, 2012, 13, 285-306. | 2.5 | 63 |

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|---|---|---|---|
| 127 | DNA of Erythroid Origin Is Present in Human Plasma and Informs the Types of Anemia. Clinical Chemistry, 2017, 63, 1614-1623. | 1.5 | 63 |
| 128 | Fetomaternal Cellular and Plasma DNA Trafficking. Annals of the New York Academy of Sciences, 2001, 945, 119-131. | 1.8 | 62 |
| 129 | Prenatal detection of fetal Down's syndrome from maternal plasma. Lancet, The, 2000, 356, 1819-1820. | 6.3 | 61 |
| 130 | Detection and characterization of jagged ends of double-stranded DNA in plasma. Genome Research, 2020, 30, 1144-1153. | 2.4 | 61 |
| 131 | Circulating Corticotropin-Releasing Hormone mRNA in Maternal Plasma: Relationship with Gestational Age and Severity of Preeclampsia. Clinical Chemistry, 2004, 50, 1851-1854. | 1.5 | 60 |
| 132 | Quantitative Analysis of the Transrenal Excretion of Circulating EBV DNA in Nasopharyngeal Carcinoma Patients. Clinical Cancer Research, 2008, 14, 4809-4813. | 3.2 | 60 |
| 133 | Genomewide bisulfite sequencing reveals the origin and time-dependent fragmentation of urinary cfDNA. Clinical Biochemistry, 2017, 50, 496-501. | 0.8 | 60 |
| 134 | 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. | 1.5 | 60 |
| 135 | Circulating Placental RNA in Maternal Plasma Is Associated with a Preponderance of 5â€² mRNA Fragments: Implications for Noninvasive Prenatal Diagnosis and Monitoring. Clinical Chemistry, 2005, 51, 1786-1795. | 1.5 | 59 |
| 136 | Fifty Years of Molecular (DNA/RNA) Diagnostics. Clinical Chemistry, 2005, 51, 661-671. | 1.5 | 58 |
| 137 | Noninvasive Prenatal Screening for Genetic Diseases Using Massively Parallel Sequencing of Maternal Plasma DNA. Cold Spring Harbor Perspectives in Medicine, 2015, 5, a023085. | 2.9 | 58 |
| 138 | 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. | 0.8 | 58 |
| 139 | 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. | 1.1 | 58 |
| 140 | Quantitative Analysis of Epsteinâ€Barr Virus DNA in Plasma and Serum. Annals of the New York Academy of Sciences, 2001, 945, 68-72. | 1.8 | 57 |
| 141 | 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. | 1.5 | 57 |
| 142 | Differential DNA methylation between fetus and mother as a strategy for detecting fetal DNA in maternal plasma. Clinical Chemistry, 2002, 48, 35-41. | 1.5 | 56 |
| 143 | Methy-Pipe: An Integrated Bioinformatics Pipeline for Whole Genome Bisulfite Sequencing Data Analysis. PLoS ONE, 2014, 9, e100360. | 1.1 | 54 |
| 144 | Plasma Epsteinâ€“Barr virus DNA as an archetypal circulating tumour DNA marker. Journal of Pathology, 2019, 247, 641-649. | 2.1 | 53 |

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| 145 | Fetal RhD genotyping from maternal plasma. Annals of Medicine, 1999, 31, 308-312. | 1.5 | 52 |
| 146 | Lack of Dramatic Enrichment of Fetal DNA in Maternal Plasma by Formaldehyde Treatment. Clinical Chemistry, 2005, 51, 655-658. | 1.5 | 52 |
| 147 | Methylation analysis of plasma DNA informs etiologies of Epstein-Barr virus-associated diseases. Nature Communications, 2019, 10, 3256. | 5.8 | 52 |
| 148 | Noninvasive detection of F8 int22h-related inversions and sequence variants in maternal plasma of hemophilia carriers. Blood, 2017, 130, 340-347. | 0.6 | 51 |
| 149 | Recent Advances in Fetal Nucleic Acids in Maternal Plasma. Journal of Histochemistry and Cytochemistry, 2005, 53, 293-296. | 1.3 | 50 |
| 150 | Genome-wide expression analysis using microarray identified complex signaling pathways modulated by hypoxia in nasopharyngeal carcinoma. Cancer Letters, 2007, 253, 74-88. | 3.2 | 50 |
| 151 | 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, 593-598. | 1.1 | 48 |
| 152 | Investigation into the Origin and Tumoral Mass Correlation of Plasma Epsteinâ€“Barr Virus DNA in Nasopharyngeal Carcinoma. Clinical Chemistry, 2005, 51, 2192-2195. | 1.5 | 46 |
| 153 | Time Profile of Appearance and Disappearance of Circulating Placenta-Derived mRNA in Maternal Plasma. Clinical Chemistry, 2006, 52, 313-316. | 1.5 | 46 |
| 154 | Plasma Î²-globin DNA as a prognostic marker in chest pain patients. Clinica Chimica Acta, 2006, 368, 110-113. | 0.5 | 45 |
| 155 | Comparison of plasma Î²-globin DNA and S-100 protein concentrations in acute stroke. Clinica Chimica Acta, 2007, 376, 190-196. | 0.5 | 45 |
| 156 | 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. | 1.4 | 45 |
| 157 | Evaluation of Human Chorionic Gonadotropin Î²-Subunit mRNA Concentrations in Maternal Serum in Aneuploid Pregnancies: A Feasibility Study. Clinical Chemistry, 2004, 50, 1055-1057. | 1.5 | 44 |
| 158 | Noninvasive Prenatal Testing by Nanopore Sequencing of Maternal Plasma DNA: Feasibility Assessment. Clinical Chemistry, 2015, 61, 1305-1306. | 1.5 | 44 |
| 159 | Single-molecule sequencing reveals a large population of long cell-free DNA molecules in maternal plasma. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 3.3 | 43 |
| 160 | Cell-Free DNA Fragmentomics in Liquid Biopsy. Diagnostics, 2022, 12, 978. | 1.3 | 43 |
| 161 | Circulating DNA in Plasma and Serum: Biology, Preanalytical Issues and Diagnostic Applications. Clinical Chemistry and Laboratory Medicine, 2002, 40, 962-8. | 1.4 | 41 |
| 162 | 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. | 1.3 | 41 |

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