Francis Barany

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4379053/publications.pdf

Version: 2024-02-01

49 papers	3,121 citations	201674 27 h-index	206112 48 g-index
50 all docs	50 docs citations	50 times ranked	3912 citing authors

#	Article	IF	Citations
1	Universal DNA microarray method for multiplex detection of low abundance point mutations 1 1Edited by K. Yamamoto. Journal of Molecular Biology, 1999, 292, 251-262.	4.2	329
2	Association of survival and disease progression with chromosomal instability: A genomic exploration of colorectal cancer. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 7131-7136.	7.1	326
3	Relationship of Gene Expression and Chromosomal Abnormalities in Colorectal Cancer. Cancer Research, 2006, 66, 2129-2137.	0.9	231
4	Universal DNA array detection of small insertions and deletions in BRCA1 and BRCA2. Nature Biotechnology, 2000, 18, 561-564.	17.5	200
5	High-Throughput Selection, Enumeration, Electrokinetic Manipulation, and Molecular Profiling of Low-Abundance Circulating Tumor Cells Using a Microfluidic System. Analytical Chemistry, 2011, 83, 2301-2309.	6.5	168
6	Multiplex PCR/LDR for detection of K-ras mutations in primary colon tumors. Oncogene, 1999, 18, 27-38.	5.9	166
7	Single nucleotide polymorphism seeking long term association with complex disease. Nucleic Acids Research, 2002, 30, 3295-3311.	14.5	157
8	Microarrays Assembled in Microfluidic Chips Fabricated from Poly(methyl methacrylate) for the Detection of Low-Abundant DNA Mutations. Analytical Chemistry, 2003, 75, 1130-1140.	6.5	145
9	Polymerase chain reaction/ligase detection reaction/hybridization assays using flow-through microfluidic devices for the detection of low-abundant DNA point mutations. Biosensors and Bioelectronics, 2006, 21, 1915-1923.	10.1	125
10	Cloning, overexpression and nucleotide sequence of a thermostable DNA ligase-encoding gene. Gene, 1991, 109, 1-11.	2.2	104
11	CpG Island Methylator Phenotype Associates with Low-Degree Chromosomal Abnormalities in Colorectal Cancer. Clinical Cancer Research, 2008, 14, 6005-6013.	7.0	101
12	Biochemical properties of a high fidelity DNA ligase from Thermus species AK16D. Nucleic Acids Research, 1999, 27, 788-794.	14.5	89
13	Fabrication of DNA microarrays onto poly(methyl methacrylate) with ultraviolet patterning and microfluidics for the detection of low-abundant point mutations. Analytical Biochemistry, 2005, 340, 123-135.	2.4	81
14	Ligase Detection Reaction/Hybridization Assays Using Three-Dimensional Microfluidic Networks for the Detection of Low-Abundant DNA Point Mutations. Analytical Chemistry, 2005, 77, 3243-3255.	6.5	77
15	Genomeâ€wide autozygosity mapping in human populations. Genetic Epidemiology, 2009, 33, 172-180.	1.3	58
16	Molecular Profiling of Colon Tumors: The Search for Clinically Relevant Biomarkers of Progression, Prognosis, Therapeutics, and Predisposition. Annals of Surgical Oncology, 2011, 18, 3694-3700.	1.5	51
17	Ligase detection reaction for identification of low abundance mutations. Clinical Biochemistry, 1999, 32, 287-290.	1.9	50
18	The Signatures of Autozygosity among Patients with Colorectal Cancer. Cancer Research, 2008, 68, 2610-2621.	0.9	47

#	Article	IF	Citations
19	MDM2 Gene Amplification Is Correlated to Tumor Progression but not to the Presence of SNP309 or TP53 Mutational Status in Primary Colorectal Cancers. Molecular Cancer Research, 2008, 6, 205-211.	3.4	47
20	Serial processing of biological reactions using flow-through microfluidic devices: coupled PCR/LDR for the detection of low-abundant DNA point mutations. Analyst, The, 2007, 132, 913.	3.5	46
21	Emerging Paradigms in Cancer Genetics: Some Important Findings from High-Density Single Nucleotide Polymorphism Array Studies: Fig. 1.. Cancer Research, 2009, 69, 723-727.	0.9	46
22	Multiplexed Identification of Blood-Borne Bacterial Pathogens by Use of a Novel 16S rRNA Gene PCR-Ligase Detection Reaction-Capillary Electrophoresis Assay. Journal of Clinical Microbiology, 2007, 45, 1927-1935.	3.9	44
23	Fabrication of DNA microarrays onto polymer substrates using UV modification protocols with integration into microfluidic platforms for the sensing of low-abundant DNA point mutations. Methods, 2005, 37, 103-113.	3.8	42
24	An endonuclease/ligase based mutation scanning method especially suited for analysis of neoplastic tissue. Oncogene, 2002, 21, 1909-1921.	5.9	40
25	Multiplexed profiling of candidate genes for CpG island methylation status using a flexible PCR/LDR/Universal Array assay. Genome Research, 2005, 16, 282-289.	5.5	36
26	EndoV/DNA ligase mutation scanning assay using microchip capillary electrophoresis and dual-color laser-induced fluorescence detection. Analytical Methods, 2012, 4, 58-64.	2.7	34
27	Modular microfluidic system fabricated in thermoplastics for the strain-specific detection of bacterial pathogens. Lab on A Chip, 2012, 12, 3348.	6.0	31
28	Novel, Self-Assembling Dimeric Inhibitors of Human Î² Tryptase. Journal of Medicinal Chemistry, 2020, 63, 3004-3027.	6.4	29
29	Ligase detection reaction for the analysis of point mutations using freeâ€solution conjugate electrophoresis in a polymer microfluidic device. Electrophoresis, 2008, 29, 4751-4760.	2.4	24
30	High sensitivity EndoV mutation scanning through real-time ligase proofreading. Nucleic Acids Research, 2004, 32, e148-e148.	14.5	23
31	Gene Dysregulations Driven by Somatic Copy Number Aberrations-Biological and Clinical Implications in Colon Tumors. Journal of Molecular Diagnostics, 2010, 12, 552-561.	2.8	23
32	Harmonized microarray/mutation scanning analysis of TP53 mutations in undissected colorectal tumors. Human Mutation, 2004, 24, 63-75.	2.5	20
33	Can CpG methylation serve as surrogate markers for immune infiltration in cancer?. Advances in Cancer Research, 2019, 143, 351-384.	5.0	19
34	A Multiplex PCR/LDR Assay for the Simultaneous Identification of Category A Infectious Pathogens: Agents of Viral Hemorrhagic Fever and Variola Virus. PLoS ONE, 2015, 10, e0138484.	2.5	15
35	Reversible Linkage of Two Distinct Small Molecule Inhibitors of Myc Generates a Dimeric Inhibitor with Improved Potency That Is Active in Myc Over-Expressing Cancer Cell Lines. PLoS ONE, 2015, 10, e0121793.	2.5	14
36	A multiplex PCR/LDR assay for simultaneous detection and identification of the NIAID category B bacterial food and water-borne pathogens. Diagnostic Microbiology and Infectious Disease, 2014, 79, 135-140.	1.8	12

#	Article	IF	Citations
37	Prediction of blood-based biomarkers and subsequent design of bisulfite PCR-LDR-qPCR assay for breast cancer detection. BMC Cancer, 2020, 20, 85.	2.6	12
38	Pathways- and epigenetic-based assessment of relative immune infiltration in various types of solid tumors. Advances in Cancer Research, 2019, 142, 107-143.	5.0	10
39	Singleâ€molecule detection of cancer mutations using a novel PCRâ€LDRâ€qPCR assay. Human Mutation, 2020, 41, 1051-1068.	2.5	8
40	Solid-phase XRN1 reactions for RNA cleavage: application in single-molecule sequencing. Nucleic Acids Research, 2021, 49, e41-e41.	14.5	6
41	PCR/LDR/Universal Array Platforms for the Diagnosis of Infectious Disease. Methods in Molecular Biology, 2010, 632, 141-157.	0.9	6
42	Target-Directed Self-Assembly of Homodimeric Drugs Against Î²-Tryptase. ACS Medicinal Chemistry Letters, 2018, 9, 827-831.	2.8	5
43	MGMT Epigenetics: The Influence of Gene Body Methylation and Other Insights Derived from Integrated Methylomic, Transcriptomic, and Chromatin Analyses in Various Cancer Types. Current Cancer Drug Targets, 2021, 21, 360-374.	1.6	5
44	Application of Multiplex Bisulfite PCRâ€“Ligase Detection Reactionâ€“Real-Time Quantitative PCR Assay in Interrogating Bioinformatically Identified, Blood-Based Methylation Markers for Colorectal Cancer. Journal of Molecular Diagnostics, 2020, 22, 885-900.	2.8	5
45	Harnessing asymmetrical substrate recognition by thermostable EndoV to achieve balanced linear amplification in multiplexed SNP typing. Biochemistry and Cell Biology, 2006, 84, 232-242.	2.0	4
46	PROTACs: Promising Approaches for Epigenetic Strategies to Overcome Drug Resistance. Current Cancer Drug Targets, 2021, 21, 306-325.	1.6	4
47	A Multiplex PCR/LDR Assay for Viral Agents of Diarrhea with the Capacity to Genotype Rotavirus. Scientific Reports, 2018, 8, 13215.	3.3	3
48	A Unified Transcriptional, Pharmacogenomic, and Gene Dependency Approach to Decipher the Biology, Diagnostic Markers, and Therapeutic Targets Associated with Prostate Cancer Metastasis. Cancers, 2021, 13, 5158.	3.7	3
49	Abstract B43: Reversible linkage of two distinct small molecule inhibitors of MYC generates a more potent and selective dimeric inhibitor that is active in cancer cell lines over-expressing MYC. , 2015, , .		0