

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

INTEGRATED DNA TECHNOLOGIES, INC.,
Petitioner,

v.

TECAN GENOMICS, INC.,
Patent Owner

Case No. IPR2025-00016
U.S. Patent No. 10,876,108

PATENT OWNER'S UPDATED EXHIBIT LIST

Ex.	Short Name	Description
2001	Evans 2009	Mark F. Evans, <i>The Polymerase Chain Reaction and Pathology Practice</i> , 15 DIAGN. HISTOPATHOL. 344 (2009)
2002	N/A	<i>The Cost of Sequencing a Human Genome</i> , NAT'L INST. OF HEALTH NAT'L HUMAN GENOME RESEARCH INST., https://www.genome.gov/about-genomics/fact-sheets/Sequencing-Human-Genome-cost (last visited July 18, 2025)
2003	Goodwin 2016	Sara Goodwin et al., <i>Coming of Age: Ten Years of Next-Generation Sequencing Technologies</i> , 17 NAT. REV. 333 (2016).
2004	Mardis 2017	Elaine R. Mardis, <i>DNA Sequencing Technologies: 2006-2016</i> , 12 NAT. PROTOC., 213 (2017).
2005	Fuller 2009	Carl W. Fuller et al., <i>The Challenges of Sequencing by Synthesis</i> , 27 NAT. BIOTECHNOL. 1013 (2009).
2006	Marguiles 2005	Marcel Margulies et al., <i>Genome Sequencing in Open Microfabricated High Density Picoliter Reactors</i> , 437 NATURE 376 (2005).
2007	Luo 2012	Chengwei Luo et al., <i>Direct Comparisons of Illumina vs. Roche 454 Sequencing Technologies on the Same Microbial Community DNA Sample</i> , 7 PLOS ONE 1 (2012).
2008	Hert 2008	Daniel G. Hert et al., <i>Advantages and Limitations of Next-Generation Sequencing Technologies: A Comparison of Electrophoresis and Non-Electrophoresis Methods</i> , 29 ELECTROPHORESIS 4618 (2008).
2009	N/A	<i>Six Years After Acquisition, Roche Quietly Shuttles 454</i> , BioIT World (Oct. 16, 2013), https://www.bio-itworld.com/news/2013/10/16/six-years-after-acquisition-roche-quietly-shuttles-454 .
2010	Mamanova 2010	Lira Mamanova et al., <i>Target-Enrichment Strategies for Next-Generation Sequencing</i> , 7 NAT. METHODS 111 (2010).

Ex.	Short Name	Description
2011	Treangen 2011	Todd J. Treangen et al., <i>Repetitive DNA and Next-Generation Sequencing: Computational Challenges and Solutions</i> , 29 NAT. REV. GENET. 36 (2012).
2012	Brownie 1997	Jannine Brownie et al., <i>The Elimination of Primer-dimer Accumulation in PCR</i> , 25 NUCLEIC ACIDS RES. 3235 (1997).
2013	Tewhey 2009	Ryan Tewhey et al., <i>Microdroplet-based PCR Enrichment for Large-scale Targeted Sequencing</i> , 27 NAT. BIOTECHNOL. 1025 (2009).
2014	Link 2012	U.S. Patent Application No. 2012/0309002 (published Dec. 6, 2012).
2015	Franck 1998	Sophia M. Franck et al., <i>Multiplex PCR for Enterotoxigenic, Attaching and Effacing, and Shiga Toxin-Producing Escherichia coli Strains from Calves</i> , 36 J. CLIN. MICROBIOL. 1795 (1998).
2016	AmpliTaq Gold	Applied Biosystems, <i>AmpliTaq Gold, with GeneAmp® 10X PCR Buffer or GeneAmp 10X PCR Buffer II & MgCl₂ Solution or GeneAmp 10X PCR Gold Buffer & MgCl₂ Solution</i> (2000).
2017	Fool 2002	University of Hawaii, <i>The Simple Fool's Guide to PCR</i> (2002).
2018	Ying 2019	Hua Ying et al., <i>The Whole-Genome Sequence of the Coral Acropora Millepora</i> , 1 GENOME BIOL. Genome Biology 1374 (2019).
2019		Office Action Summary, Application No. 13/750,768 (U.S. Patent & Trademark Office July 15, 2015).
2020	Singleton 2011	A. Singleton, <i>Exome sequencing: a transformative technology</i> , 10 Lancet Neurol. 942-46 (2011).
2021	Former Bustamante Declaration	Declaration of Carlos D. Bustamante, Ph.D. for Patent Owner's Preliminary Response
2022-2035		<i>Reserved</i>

Ex.	Short Name	Description
2036	Sims Deposition 1	Transcript for the June 26, 2025 Deposition of Dr. Peter A. Sims
2037	Sims Deposition 2	Transcript for the June 27, 2025 Deposition of Dr. Peter A. Sims
2038	Bustamante Declaration	Declaration of Carlos D. Bustamante, Ph.D. (<i>amended on October 14, 2025</i>)
2039	Matz Declaration	Declaration of Mikhail V. Matz, Ph.D.
2040	Mullis 1986	K.Mullis et al., <i>Specific Enzymatic Amplification of DNA In Vitro: The Polymerase Chain Reaction</i> , 51 COLDSPRING HARBOR SYMPOSIA QUANTITATIVE BIOL. 1(1986)
2041	Kanagawa 2003	Takahiro Kanagawa, <i>Bias and Artifacts in Multitemplate Polymerase Chain Reactions (PCR)</i> , 96 J. BIOSCI. & BIOENG 4 (2003)
2042	Aird 2011	Daniel Aird et al., <i>Analyzing and minimizing PCR amplifications bias in Illumina sequencing libraries</i> , 12 GENOME BIOL. (2011)
2043	Chenchik 1996	A. Chenchik et al., <i>Full-Length cDNA Cloning and Determination of mRNA 5' and 3' Ends by Amplification of Adaptor-Ligated cDNA</i> , 21 BIOTECHNIQUES 3 (1996)
2044	Devon 1995	Rebecca S. Devon et al., <i>Splinkerettes—improved vectorettes for greater efficiency in PCR walking</i> , 23 NUCLEIC ACIDS RES. 9 (1995)
2045	Padegimas 1998	Linas S. Padegimas & Nancy A. Reichert, <i>Adaptor Ligation-Based Polymerase Chain Reaction-Mediated Walking</i> , 260 ANALYTICAL BIOCHEMISTRY (1998)
2046	Arnold 1991	C. Arnold & I.J. Hodgson, <i>Vectorette PCR: A Novel Approach to Genomic Walking</i> , PCR METHODS & APPLICATIONS (1991)
2047	Miura 2005	Fumihito Miura et al., <i>A novel strategy to design highly specific PCR primers based on stability and uniqueness of 3'-end subsequences</i> , 21 BIOINFORMATICS 24 (2005)

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2048	Tsoktouridis 2005	Georgios Tsoktouridis et al., <i>Adaptor Long-Range PCR Procedure for Clone-Specific Characterization and Chromosomal Localization</i> , 38 BIOTECHNIQUES 6 (2005)
2049	Bower 2010	Neil I. Bower & Ian A. Johnston, <i>Targeted rapid amplification of cDNA ends (T-RACE)—an improved RACE reaction through degradation of non-target sequences</i> , 38 NUCLEIC ACIDS RES. 21 (2010)
2050	Sohn 2011	Jung-Hoon Sohn, <i>A Novel Genome Walking Method for Cloning of Unknown DNA Sequences Adjacent to Known Sequence</i> , Application No. WO 2011/004994
2051	Almomani 2011	Rowida Almomani et al., <i>Experiences with array-based sequence capture; toward clinical applications</i> , 19 EURO. J. HUMAN GENETICS (2011)
2052	Myllykangas 2011	Samuel Myllykangas et al., <i>Targeted sequencing library preparation by genomic DNA circularization</i> , 11 MCB BIOTECH. 122 (2011)
2053	Quail 2008	Michael A. Quail et al., <i>A large genome center's improvements to the Illumina sequencing system</i> , 5 NAT. METHODS 12 (2008)
2054	Kozarewa 2009	Iwanka Kozarewa et al., <i>Amplification-free Illumina sequencing-library preparation facilitates improved mapping and assembly of (G+C)-biased genomes</i> , 6 NAT. METHODS 4 (2009)
2055	Syvänen 2001	Ann-Christine Syvänen, <i>Accessing Genetic Variation: Genotyping Single Nucleotide Polymorphisms</i> , 2 NAT. REV. (2001)
2056	Grunenwald 2010	Haiying Gruenwald et al., <i>Rapid, high-throughput library preparation for next-generation sequencing</i> , NAT. METHODS (2010)
2057	Glenn 2011	Travis C. Glenn, <i>Field guide to next-generation DNA sequencers</i> , MOLECULAR ECOLOGY RES. (2011)
2058	Zhang 2021	Lu Zhang, <i>Advances in Metagenomics and Its Application in Environmental Microorganisms</i> , 12 FRONTIERS IN MICROBIOL. (2021)

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2059	2008 GS-Flx Operating Manual	<i>Genome Sequencer FLX Operator's Manual</i> , ROCHE (2008)
2060	Niedringhaus 2011	Thomas P. Niedringhaus, <i>Landscape of Next-Generation Sequencing Technologies</i> , 83 ANALYTICAL CHEMISTRY (2011)
2061	Thoma 2011	Generation of Stable mRNA Fragments and Translation of N-Truncated Proteins Induced by Antisense Oligodeoxynucleotides
2062	Ernani 2009	Fred Ernani et al., <i>Bringing Cost and Process Efficiency to Next Generation Sequencing</i> , DDW (2009)
2063	Irwin 2011	Jodi Irwin et al., <i>Assessing the potential of next generation sequencing technologies for missing persons identification efforts</i> , 3 FORENSIC SCI. J. (2011)
2064	Lange 2010	Julia Lange, <i>Targeted resequencing for large-scale genomic studies: accelerating NGS throughput using molecular barcodes</i> , NAT. METHODS (2010)
2065	Barchi 2019	Lorenzo Barchi, <i>Single Primer Enrichment Technology (SPET) for High-Throughput Genotyping in Tomato and Eggplant Germplasm</i> , 10 FRONTIERS IN PLANT SCI. (2019)
2066	Gnirke 2009	Andreas Gnirke et al., <i>Solution Hybrid Selection with Ultra-Long Oligonucleotides for Massively Parallel Targeted Sequencing</i> , 27 NAT. BIOTECH. 182 (2009)
2067	Smith 2021	Caitlin Smith, <i>Growing Options for Enriching Target DNA</i> , FUTURELABS, June 17, 2021, https://www.biocompare.com/Editorial-Articles/576645-Growing-Options-for-Enriching-Target-DNA/ .
2068	Scaglione 2019	Davide Scaglione et al., <i>Single primer enrichment technology as a tool for massive genotyping: a benchmark on black poplar and maize</i> , 124 ANNALS OF BOTANY (2019)
2069	Benjamino 2021	Jacquelynn Benjamino et al., <i>Genome-Based Targeted Sequencing as a Reproducible Microbial Community Profiling Assay</i> , 6 MSPHERE 2 (2021)

Ex.	Short Name	Description
2070	Knierim 2011	Ellen Knierim, <i>Systematic comparison of three methods for fragmentation of long-range PCR products for next generation sequencing</i> , 6 PLoS ONE 11 (2011)
2071	Quail 2011	Michael A. Quail et al., <i>Optimal enzymes for amplifying sequencing libraries</i> , 9 NAT. METHODS 1 (2012)
2072	Whiley 2005	David M. Whiley et al., <i>Sequence variation in primer targets affects the accuracy of viral quantitative PCR</i> , 34 J. CLINICAL VIROLOGY (2005)
2073	Ghedira 2009	Rim Ghedira et al., <i>Assessment of Primer/Template Mismatch Effects on Real-Time PCR Amplification of Target Taxa for GMO Quantification</i> , 57 J. AGRICULTURAL & FOOD CHEMISTRY (2009)
2074	Matz 2002	Mikhail V. Matz, <i>Amplification of Representative cDNA Samples from Microscopic Amounts of Invertebrate Tissue to Search for New Genes</i> , in GREEN FLUORESCENT PROTEIN: APPLICATIONS AND PROTOCOLS 3 (Barry W. Hicks ed., 2002)
2075	Bielas 2013	International Publication No. WO 2013/123442 A1
2076	JPMorgan Report	Tycho W. Peterson et al., <i>Next Gen Sequencing Survey</i> , J.P. MORGAN (2010)
2077	Ambion 2008	<i>Ambion® RNA Fragmentation Reagents</i> , APPLIED BIOSYSTEMS (2008)
2078	Illumina 2008	<i>Preparing Samples for Sequencing of mRNA</i> , ILLUMINA (2008)
2079	Additional File 3	Additional File 3 to EX1006
2080	Lewin 1994	Benjamin Lewin, <i>The eukaryotic gene: conserved exons and unique introns</i> , in GENES V 677 (1994)
2081	Evrogen Trimmer Kit Manual	<i>Trimmer-Direct cDNA Normalization Kit User Manual</i> , EVROGEN (2012)
2082	Nugen Nature	<i>Accelerating Genomics with Advanced Sample Preparation Solutions</i> , NATURE RESEARCH CUSTOM MEDIA

Ex.	Short Name	Description
2083	Scolnick 2015	Jonathan A. Scolnick et al., <i>An Efficient Method for Identifying Gene Fusions by Targeted RNA Sequencing from Fresh Frozen and FFPE Samples</i> , PLOS ONE (2015)
2084	Nugen BioSpace	Priya Balachandran, <i>NuGEN Announces Issuance of U.S. Patent For Its Single Primer Target Enrichment Technology (SPET) For Next Generation Sequencing Applications</i> , BIOSPACE, https://www.biospace.com/nugen-announces-issuance-of-u-s-patent-for-its-single-primer-target-enrichment-technology-spet-for-next-generation-sequencing-applications (last visited July 18, 2025)
2085	Allegro V2	<i>Allegro® Targeted Genotyping V2 Product Sheet</i> , TECAN GENOMICS, INC. (2019)
2086	Feng 2016	Weixing Feng et al., <i>Improving Alignment Accuracy on Homopolymer Regions for Semiconductor-Based Sequencing Technologies</i> , 17 BMC GENOMICS 521 (2016)
2087	Nakamura 2011	Kensuke Nakamura et al., <i>Sequence-Specific Error Profile of Illumina Sequencers</i> , 39 NUCLEIC ACIDS RES. 90 (2011)
2088	Sambrook 2006	Joseph Sambrook et al., <i>Fragmentation of DNA by Nebulization</i> , COLD SPRING HARB. PROTOC. (2006)
2089	QIAGEN 2010	<i>QIAGEN® Multiplex PCR Handbook</i> , QIAGEN (2010).
2090	Han 2006	Sangjo Han et al., <i>AtRTPrimer: Database for Arabidopsis Genome-Wide Homogeneous and Specific RT-PCR Primer-Pairs</i> , 7 BMC BIOINFORMATICS 179 (2006).
2091	Matz 1999	Mikhail V. Matz et al., <i>Amplification of cDNA Ends Based on Template-Switching Effect and Step-out PCR</i> , 27 NUCLEIC ACIDS RES. 1558 (1999).
2092	Bru 2008	D. Bru et al., <i>Quantification of the Detrimental Effect of a Single Primer-Template Mismatch by Real-Time PCR Using the 16S rRNA Gene as an Example</i> , 74 APPL. ENVIRON. MICROBIOL. 1660 (2008).

Ex.	Short Name	Description
2093	Bustin 2005	Stephen A. Bustin et al., <i>Quantitative Real-time RT-PCR – A Perspective</i> , 34 J. MOL. ENDOCRINOL. 597 (2005).
2094	Duncavage 2011	Eric J. Duncavage et al., <i>Hybrid Capture and Next-Generation Sequencing Identify Viral Integration Sites from Formalin-Fixed, Paraffin-Embedded Tissue</i> , 13 J. MOL. DIAGNOSTICS. 325 (2011).
2095	Mertes 2011	Florian Mertes et al., <i>Targeted Enrichment of Genomic DNA Regions for Next-Generation Sequencing</i> , 10 BRIEF. FUNCT. GENOM. 374 (2011).
2096	Shen 2010	Zhiyong Shen et al., <i>MPrimer: A Program for Reliable Multiplex PCR Primer Design</i> , 11 BMC BIOINFORMATICS FUNCT. GENOM. 143 (2010).
2097	Deutsche 2011	Ulla Deutsch et al., <i>Streamlining Multiplex PCR Analysis</i> , GENETIC ENGINEERING & BIOTECHNOLOGY, Dec. 1, 2011, https://www.genengnews.com/insights/streamlining-multiplex-pcr-analysis/ .
2098	Bragg 2013	Lauren M. Bragg et al., <i>Shining a Light on Dark Sequencing: Characterising Errors in Ion Torrent PGM Data</i> , 9 PLOS COMPUT. BIOL. 1 (2013)
2099	Stapleton 2002	Mark Stapleton et al., <i>The Drosophila Gene Collection: Identification of Putative Full-Length cDNAs for 70% of D. melanogaster Genes</i> , 12 COLD SPRING HARB. LAB. 1294 (2002)
2100	Infinitives	Evin de Leon Sanchez, <i>Infinitives</i> , SAN JOSE STATE UNIVERSITY WRITING CENTER, https://www.sjsu.edu/writingcenter/docs/handouts/Infinitives.pdf (last visited July 18, 2025)
2101	Meyer Comparison	Redline document comparing Exhibits 2103 and 2039
2102	Matz Email 1	Email thread between counsel and Petitioner’s counsel
2103	Meyer Declaration	Declaration of Eli Meyer, Ph.D.

Ex.	Short Name	Description
2104	Matz Email 2	Email thread between counsel and Petitioner's counsel
2105	Matz Email 3	Email thread between counsel and Petitioner's counsel
2106	Matz Email 4	Email thread between counsel and Petitioner's counsel
2107-2199		<i>Reserved</i>
2200		Privileged & Confidential Correspondence (submitted <i>in camera</i>)
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2284		Privileged & Confidential Correspondence (submitted <i>in camera</i>)
2285		Privileged & Confidential Declaration and Timeline Submitted Under Seal for <i>In Camera</i> Review

Ex.	Short Name	Description
2286	Beavers Decl.	Declaration of Timothy J. Beavers
2287	Meyer Decl.	Declaration of Eli Meyer, Ph.D.

Dated: October 14, 2025

Respectfully submitted,

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CERTIFICATE OF SERVICE

The undersigned hereby certifies that a copy of the foregoing **PATENT OWNER'S UPDATED EXHIBIT LIST** was served on October 14, 2025 via email to Petitioner by serving the correspondence addresses of record as follows:

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