

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

FORESIGHT DIAGNOSTICS INC.,

Petitioner,

v.

PERSONALIS, INC.,

Patent Owner.

Case IPR2023-00224
U.S. Patent No. 11,384,394

PATENT OWNER'S UPDATED EXHIBIT LIST

EXHIBIT LIST

Exhibit No.	Description
2001	The Scientist Staff, “2022 Top 10 Innovations,” Dec. 12, 2022, available at https://www.the-scientist.com/features/2022-top-10-innovations-70792
2002	Raphael, B., et al., “Identifying driver mutations in sequenced cancer genomes: computational approaches to enable precision medicine,” Genome Medicine 2014, 6:5
2003	Swanton, C., “Plasma-Derived Tumor DNA Analysis at Whole-Genome Resolution,” Clinical Chemistry 59:1 6-8 (2013)
2004	Excerpt from U.S. Patent Appl. No. 14/810,337 prosecution history
2005	Excerpt from U.S. Patent Appl. No. 15/996,215 prosecution history
2006	Mardis, E., et al., “Cancer genome sequencing: a review,” Human Molecular Genetics, 2009, Vol. 18, Review Issue 2
2007	Declaration of Dr. Henry Morrice Furneaux
2008	Feldman, A., et al., “Discovery of recurrent t(6;7)(p25.3;q32.3) translocations in ALK-negative anaplastic large cell lymphomas by massively parallel genomic sequencing,” Blood, January, 20 2011 Volume 117, Number 3
2009	Murphy, S., et al., “Mate Pair Sequencing of Whole-Genome-Amplified DNA Following Laser Capture Microdissection of Prostate Cancer,” DNA Research 19, 395–406, (2012)

Exhibit No.	Description
2010	<i>Curriculum Vitae</i> of Dr. Henry Morrice Furneaux
2011	“Whole Genome Sequencing,” NIH National Cancer Institution, Genetics Dictionary, available at https://www.cancer.gov/publications/dictionaries/genetics-dictionary/def/whole-genome-sequencing (last accessed Mar. 23, 2023)
2012	Embodying Product Claim Chart for U.S. Patent No. 11,384,394
2013	“Whole Genome Sequencing,” Centers for Disease Control and Prevention, available at https://www.cdc.gov/pulsenet/pathogens/wgs.html (last accessed Mar. 23, 2023)
2014	Schwarze, K; Buchanan, J; Taylor, Jc; Wordsworth, S (May 2018). “Are whole Exome and whole Genome Sequencing
2015	Transcript of the deposition of John Quackenbush, Ph.D., taken on January 31, 2018 in <i>Guardant Health, Inc. v. Foundation Medicine, Inc.</i> , Case IPR2017-01170, IPR2017-01447, IPR2017-01448
2016	Quackenbush hand-written genome sequencing calculations from September 21, 2023 deposition
2017	Berglund et al., Next-generation sequencing technologies and applications for human genetic history and forensics, <i>Investigative Genetics</i> , 2:23 (2011)
2018	Transcript of the deposition of John Quackenbush, Ph.D., taken on September 21, 2023

Exhibit No.	Description
2019	Hersh, et al., High-Throughput Sequencing in Respiratory, Critical Care, and Sleep Medicine Research: An Official American Thoracic Society Workshop Report, Ann Am Thorac Soc Vol 16, No 1, pp 1–16, Jan 2019
2020	Milbury, et al., COLD-PCR Enrichment of Rare Cancer Mutations prior to Targeted Amplicon Resequencing, Clinical Chemistry 58:3, 580-589 (2012)
2021	Przybyl, et al., Combination Approach for Detecting Different Types of Alterations in Circulating Tumor DNA in Leiomyosarcoma, Clinical Cancer Research 24(11) June 1, 2018
2022	Sims, et al., Sequencing depth and coverage: key considerations in genomic analyses, Nature Reviews/Genetics, Volume 15 (February 2014)
2023	Moding, et al., Detecting Liquid Remnants of Solid Tumors: Circulating Tumor DNA Minimal Residual Disease, Cancer Discovery, December 2021
2024	Excerpt from File History of U.S. Patent No. 11,384,394
2025	Excerpt from File History of U.S. Patent No. 11,408,033
2026	Excerpt from Sambrook, et al., Molecular Cloning, Vol. 1, 2001
2027	Gellert, et al., Helix Formation by Guanylic Acid, Proc. N. A. S., Vol. 48, 1962
2028	Gerry, et al., Universal DNA Microarray Method for Multiplex Detection of Low Abundance Point Mutations, J. Mol. Biol (1999) 292, 251-262
2029	Exhibit number not used

Exhibit No.	Description
2030	Chen, et al., Personal Omics Profiling Reveals Dynamic Molecular and Medical Phenotypes, Cell 148, 1293-1307, March 16, 2012
2031	Declaration of Henry Morrice Furneaux
2032	Declaration of John West
2033	Declaration of Jonathan MacQuitty
2034	Declaration of Doug Zeman
2035	Declaration of Dan Norton
2036	April 2, 2012 Email from John West to Christian Haudenschild re Personalis Laboratory plans
2037	May 3, 2012 Email from John West to Mark Pratt re Comparing methods to determine SNP error rate with attachment
2038	May 3, 2012 Google calendar reminder re Dev Group Weekly Mtg
2039	May 4, 2012 Google calendar reminder re Pipeline timeline walk through
2040	May 4, 2012 Google calendar reminder re Personalis Weekly Team Meeting

Exhibit No.	Description
2041	May 8, 2012 Email from John West to Carol Tillis re J West Board slides with one slide revised (#8 of 14) with attachment
2042	May 8, 2012 Email from Richard Chen to John West, et al. re Final Board Slides with attachment
2043	May 8, 2012 Minutes of a Meeting of the Board of Directors of Personalis, Inc.
2044	April 24, 2012 Email from Hugo Lam to John West, et al. re Personalis Servers (with new storages)
2045	Presentation, Update from Ashley Lab
2046	January 6, 2012 Email from John West to Mark Pratt, et al., re Draft Framework for Personalis accuracy-related product development with attachment
2047	May 11, 2012 Google Calendar reminder, Personalis Weekly Team Meeting
2048	Google Calendar reminder re Accuracy review / brainstorm on May 5, 2012
2049	May 25, 2012 Google Calendar reminder re Personalis Weekly Team Meeting
2050	May 25, 2012 Email from Carlos Bustamente to Mark Pratt re Founder meeting schedule change for this PM
2051	May 14, 2012 Email from Richard Chen to Founders, et al. re Founder Working Group Proposal with attachment

Exhibit No.	Description
2052	May 15, 2012 Email from Mark Pratt to John West re accuracy strategy notes with attachment
2053	May 15, 2012 Email from Scott Kirk to Richard Chen, et al., re Sprint 0 sprint backlog
2054	May 22, 2012 Email from John West to Richard Chen, et al., re Spreadsheet for 2pm discussion of Accuracy Differentiation with attachment
2055	May 22, 2012 Email from John West to Mark Pratt re My slides for meeting with Mike Snyder yesterday with attachments
2056	May 29, 2012 Email from John West to Scott Kirk re Accuracy documents to convert into project plan format with attachments
2057	June 1, 2012 Google Calendar reminder re Personalis Weekly Team Meeting
2058	June 15, 2012 Google Calendar reminder re Personalis Weekly Team Meeting
2059	June 22, 2012 Google Calendar reminder re Personalis Weekly Team Meeting
2060	June 29, 2012 Google Calendar reminder re Personalis Weekly Team Meeting
2061	June 7, 2012 Email from John West to Richard Chen re Accuracy next steps, spreadsheet to organize the discussion with attachment
2062	June 11, 2012 Email from Richard Chen to John West, et al. re updated board slides with attachment

Exhibit No.	Description
2063	June 11, 2012 Email from John West to Richard Chen, et al. re Draft Board slides for your comments with attachment
2064	June 12, 2012 Minutes of a Meeting of the Board of Directors of Personalis, Inc.
2065	June 17, 2012 Email from John West to Scott Kirk re Sprint 2 overview
2066	July 6, 2012 Google Calendar reminder re Personalis Weekly Team Meeting
2067	July 13, 2012 Google Calendar reminder re Personalis Weekly Team Meeting
2068	July 20, 2012 Google Calendar reminder re Personalis Weekly Team Meeting
2069	July 27, 2012 Google Calendar reminder re Personalis Weekly Team Meeting
2070	July 17, 2012 Email from Richard Chen to John West, et, al. re Final Board Slides with attachment
2071	July 18, 2012 Email from John West to Carol Tillis, et, al. re JW Board slides for printing with attachment
2072	July 18, 2012 Google calendar reminder re 2012 Personalis BOD Meeting
2073	July 18, 2012 Minutes of Meeting of The Board of Directors of Personalis, Inc

Exhibit No.	Description
2074	July 24, 2012 Quick Notes on Lab Sequencing From Discussion with JW
2075	August 6, 2012 Email from Mark Pratt to John West re Lab Projects with attachment
2076	August 6, 2012 Email from John West to Mark Pratt re Lab Projects
2077	August 10, 2012 Email from Richard Chen to John West re Sprint 4 pre planning =JW Questions & Input
2078	August 28, 2012 Email from Nan Leng to Hugo Lam re MiSeq 2x250 run completed over the weekend
2079	August 3, 2012 Google calendar reminder re Personalis Weekly Team Meeting
2080	August 10, 2012 Google calendar reminder re Personalis Weekly Team Meeting
2081	August 17, 2012 Google calendar reminder re Personalis Weekly Team Meeting
2082	August 20, 2012 Email from John West to Russ Altman re USE THIS ONE: my edits/slides v2 with attachment
2083	September 4, 2012 Email from Richard Chen to John West, et al. re Final Board Slides with attachment
2084	September 4, 2012 Email from John West to Carol Tillis re Personalis Board meeting preview

Exhibit No.	Description
2085	September 5, 2012 Google calendar reminder re 2012 Personalis BOD Meeting
2086	September 5, 2012 Email from John West to Carol Tillis and Eliane Sousa, et al. re John West's Board Slides with attachment
2087	September 5, 2012 Minutes of A Meeting of The Board of Directors of Personalis, Inc.
2088	September 7, 2012 Google calendar reminder re Personalis Monthly Team Meeting
2089	September 27, 2012 Purchase Order to Agilent
2090	October 5, 2012 Google Calendar reminder re Personalis Monthly Team Meeting
2091	October 9, 2012 Google Calendar reminder re accuracy requirements walk through
2092	October 10, 2012 Google Calendar reminder re Accuracy Bi-weekly
2093	October 24, 2012 Google Calendar reminder re Accuracy Bi-weekly
2094	October 4, 2012 Email from Scott Kirk to John West re Notes from the runs discussion
2095	October 10, 2012 Email from Scott Kirk to John West, et al., re PGS v1 Requirements draft (rev 1.10) with attachment

Exhibit No.	Description
2096	October 9, 2012 Email from John West to Richard Chen, et al., re Slide for accuracy requirements walkthrough meeting 3-5pm today with attachment
2097	October 12, 2012 Email from John West to Christian Haudenschild, et al., re Prioritization of Ops Sequencing projects with attachment
2098	October 19, 2012 Email from John West to Richard Chen, et al., re Applying for a patent on our idea of panels reflecting to exome / WGS
2099	November 1, 2012 Email from John West to Carol Tillis re Board slides from John West, ready to print with attachment
2100	October 31, 2012 Email from Richard Chen to John West, et al., re final board slides, ready to print with attachment
2101	November 1, 2012 Google Calendar reminder re Personalis BOD Meeting – Breakfast will be served between 8:15am and 9am
2102	November 1, 2012 Email from Shujun Luo to John West re Re: Can you please email me a copy of your slides from this afternoon? with attachment
2103	November 21, 2012 Google Calendar reminder re Accuracy Bi-weekly
2104	December 7, 2012 Google Calendar reminder re Accuracy Bi-weekly
2105	December 12, 2012 Email from Richard Chen to John West, et al., re Final board slides with attachment
2106	December 13, 2012 Email from John West to Carol Tillis re CEO Update presentation for Board meeting with attachment

Exhibit No.	Description
2107	December 14, 2012 Minutes of a Meeting of the Board of Directors of Personalis, Inc.
2108	January 16, 2013 Google Calendar reminder re Accuracy Bi-weekly
2109	January 13, 2012 Email from John West to Richard Chen re Draft of what we might offer as Laboratory Assays with attachment
2110	July 26, 2011 Minutes of a Meeting of the Board of Directors of Personalis, Inc.
2111	November 01, 2012 Minutes of a Meeting of the Board of Directors of Personalis, Inc.
2112	May 08, 2012 CEO Overview Board of Director Presentation by John West
2113	U.S. Provisional Patent Application No. 61/753,828
2114	January 19, 2010 Illumina Individual Genome Sequence Report
2115	January 18, 2011 Slides, “Incoming Data QC and our ability to detect commonly known genetic diseases”
2116	June 18, 2012 Email from John West to Mark Pratt, et al. re Shunjun getting started
2117	January 11, 2013 Email from John West to Richard Chen re Name instead of “Exome+”

Exhibit No.	Description
2118	August 14, 2012 Google calendar reminder re Personalis BOD Meeting
2119	January 14, 2013 Email from John West to Carol Tillis, et al. re Product naming decisions from staff meeting today
2120	May 17, 2012 Email from John West to Mark Pratt re Update Job Description for Shujun
2121	A Family Learns the Secrets of Its Genomes, MIT Technology Review, June 16, 2011
2122	Dewey, et al., Phased Whole-Genome Genetic Risk in a Family Quartet Using a Major Allele Reference Sequence, PLoS Genetics, September 2011, Vol. 7(9)
2123	November 2, 2012 Google calendar reminder re Personalis monthly team meeting
2124-2150	RESERVED
2151	Foresight Diagnostics, About, https://foresight-dx.com/about
2152	Newman, et al., An ultrasensitive method for quantitating circulating tumor DNA with broad patient coverage, HHS Public Access Author Manuscript
2153	“Personalis MRD Assays to Support UK’s TRACERx ctDNA Monitoring Study,” Precision Medicine Online, April 5, 2023
2154	“Personalis, AstraZeneca Extend Collaboration Around Residual Cancer Detection Test,” GenomeWeb, March 7, 2023

Exhibit No.	Description
2155	Blighe, Molecular analysis of circulating cell-free DNA in breast cancer patients, University of Leicester, 2012.
2156	Labrousse, “MATRIX plasma-in-plasma contrived samples assessment and detection of MRD using the Personalis NeXT Personal assay,” American Society of Clinical Oncology, e15056, 2023.
2157	DeRienzo and Quackenbush et al., “Gender-Specific Molecular and Clinical Features Underlie Malignant Pleural Mesothelioma,” Cancer Research, 76:319-28, 2015
2158	Sathirapongsasuti and Quackenbush et al., “Exome sequencing-based copy-number variation and loss of heterozygosity detection: ExomeCNV,” Bioinformatics 27:2648-2654, 2011
2159	Chilamakuri, “Performance comparison of four exome capture systems for deep sequencing,” BMC Genomics 15:449, 2014
2160	Excerpt from Sambrook, et al., Molecular Cloning, Vol. 1, 2001
2161	RESERVED
2162	Stephens et al., Complex landscapes of somatic rearrangement in human breast cancer genomes, Nature, 462:1005-1010 (2009) supplementary figures
2163	<i>Personalis, Inc. v. Foresight Diagnostics Inc.</i> November 29, 2022 Stipulated Protective Order, Case No. 1:22-cv-01913-CNS-NRN (D. Colo.)
2164-2177	RESERVED
2178	The Chicago Manual of Style, 16th ed., University of Chicago Press, Chicago IL, 2010

Exhibit No.	Description
2179-2180	RESERVED
2181	Dudley and Diehn, “Detection and Diagnostic Utilization of Cellular and Cell-Free Tumor DNA,” Annu. Rev. Pathol. Mech. Dis. 16:199-222 (2021), Exhibit 2166 from <i>Foresight v. Personalis</i> , IPR2023-00545
2182	RESERVED
2183	Leary et al., “Detection of Chromosomal Alterations in the Circulation of Cancer Patients with Whole-Genome Sequencing,” Science Translational Medicine, 4:1-12 (2012)
2184-2187	RESERVED
2188	Transcript of the deposition of John Quackenbush, Ph.D., taken on February 1, 2024
2189-2200	RESERVED
2201	Patent Owner's Demonstratives for Oral Argument, IPR2023-00224 and IPR2023-00317

Respectfully submitted,

WEIL, GOTSHAL & MANGES LLP

Dated: March 15, 2024

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CERTIFICATE OF SERVICE

I hereby certify that, pursuant to 37 C.F.R. § 42.6(e) and with the agreement of counsel for Petitioner, a true and correct copy of **PATENT OWNER'S UPDATED EXHIBIT LIST AND EX2201** are being served electronically on March 15, 2024, to the e-mail addresses shown below:

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Dated: March 15, 2024

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