UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

GENEOSCOPY, INC.,
Petitioner,

v.

EXACT SCIENCES CORPORATION,
Patent Owner.

Case No.: IPR2024-00459
U.S. Patent 11,634,781

PETITIONER'S AMENDED EXHIBIT LIST

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Exhibit	Short Name	Description
EX1001	'781 patent	U.S. Patent No. 11,634,781
EX1002	Whitney Declaration	Expert Declaration of Dr. Whitney Ph.D
EX1003	Whitney CV	Curriculum Vitae of Dr. Duncan Whitney
EX1004	Lenhard	Konstanze Lenhard et al., "Analysis of Promoter Methylation in Stool: A Novel Method for the Detection of Colorectal Cancer," *Clinical Gastroenterology and Hepatology*, 3:142-149 (2005)
EX1005	Vilkin	Alex Vilkin et al., "Performance Characteristics and Evaluation of an Automated-Developed and Quantitative, Immunochemical Fecal Occult Blood Screening Test," *American Journal of Gastroenterology*, 100:2519-2525 (2005)
EX1006	Itzkowitz	Steven Itzkowitz et al., "Improved Fecal DNA Test for Colorectal Cancer Screening," *Clinical Gastroenterology and Hepatology*, 5:111-117 (2007)
EX1007	Kanaoka	U.S. Patent Publication Number US 2006/0216714
EX1008	Derks	Sarah Derks et al., "Promoter Methylation Precedes Chromosomal Alterations in Colorectal Cancer Development," *Cellular Oncology*, 28:247-257 (2006)
EX1009	Shuber	International Patent Application Publication Number WO2005/113769
EX1010	Guittet	Lydia Guittet et al., "Comparison of A Guaiac Based And An Immunochemical Faecal Occult Blood Test In Screening For Colorectal Cancer In A General Average Risk Population," *Gut*, 56:210-214 (2007)

Exhibit	Short Name	Description
EX1011	Nishikawa	Takashi Nishikawa et al., "A Simple Method Of Detecting K-Ras Point Mutations in Stool Samples for Colorectal Cancer Screening Using One-Step Polymerase Chain Reaction/Restriction Fragment Length Polymorphism Analysis," *Clinica Chimica Acta*, 318 107–112 (2002)
EX1012	Kutzner	Nadie Kutzner et al., "Non-Invasive Detection of Colorectal Tumours by the Combined Application Of Molecular Diagnosis and the Faecal Occult Blood Test," *Cancer Letters*, 229:33-41 (2005)
EX1013	Levin	Bernard Levin et al., "Screening and Surveillance for the Early Detection of Colorectal Cancer and Adenomatous Polyps, a Joint Guideline from the American Cancer Society, the US Multi-Society Task Force on Colorectal Cancer, and the American College of Radiology," *Gastroenterology*, 134:1570–1595 (2008)
EX1014	'581 Provisional Application	US Provisional Patent Application US61/149,581
EX1015	'581 Transmittal	Transmittal Notice for U.S. Provisional Patent Application US61/149,581
EX1016	Joost Louwagie Profile	LinkedIn Page of Joost Louwagie
EX1017	US2016/0194723	US Patent Publication No. US2016/0194723
EX1018	US2012/0164238	US Patent Publication No. US2012/0164238
EX1019	Final Office Action	USPTO Final Office Action for US Patent Publication No. US15/010,436 dated October 28, 2016

Exhibit	Short Name	Description
EX1020	Nonfinal Office Action	USPTO Nonfinal Office Action for US Patent Publication No. US17/936,335 dated January 11, 2023
EX1021	Request for *Ex Parte* Reexamination	Request for *Ex Parte* Reexamination of US Patent No. 11,634,781 dated May 22, 2023
EX1022	Order Granting Request for *Ex Parte* Reexamination	USPTO Order Granting Request for *Ex Parte* Reexamination of US Patent No. 11,634,781 dated June 29, 2023
EX1023	Notice of Intent to Issue *Ex Parte* Reexamination Certificate	USPTO Notice of Intent to Issue *Ex Parte* Reexamination Certificate for US Patent No. 11, 634,781 dated Oct 18, 2023
EX1024	Young 2007	GP Young et al., "New Stool Screening Tests for Colorectal Cancer," *Digestion*, 76:26-33 (2007)
EX1025	Olson	Jeff Olson et al., "DNA Stabilization is Critical for Maximizing Performance of Fecal DNA-Based Colorectal Cancer Tests," *Diagnostic Molecular Pathology*, 3:183-191 (2005)
EX1026	Melvin	Dorothy Melvin and Marion Brooke, "Laboratory Procedures for the Diagnosis of Intestinal Parasites", *U.S. Department of Health and Human Services Centers for Disease Control* (1982)
EX1027	Lapidus '178	U.S. Patent No. 5,952,178
EX1028	Lapidus '650	U.S. Patent No. 5,741,650
EX1029	Hoepffner	N. Hoepffner et al., "Comparative Evaluation of a New Bedside Faecal Occult Blood Test in a Prospective Multicentre Study," *Alimentary Pharmacology & Therapeutics*, 23:145-154 (2006)

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EX1030	Nechvatal	Jordan Nechvatal et al., "Fecal Collection, Ambient Preservation, and DNA Extraction for PCR Amplification of Bacterial And Human Markers from Human Feces," *Journal of Microbiological Methods*, 72(2):124-32 (2008)
EX1031	Recorded Assignment	Recorded Assignment of US Patent No. 11,634,781 dated April 25, 2017
EX1032	n/a	Intentionally Omitted
EX1033	Simon	JB Simon, "Occult Blood Screening for Colorectal Carcinoma: A Critical Review," *Gastroenterology*, 88:820-837 (1985)
EX1034	n/a	Intentionally Omitted
EX1035	Sidransky	D. Sidransky, "Identification of Ras Oncogene Mutations in the Stool of Patients with Curable Colorectal Tumors," *Science*, 256:102–105 (1992)
EX1036	n/a	Intentionally Omitted
EX1037	Müller	Hannes Müller et al., "Methylation Changes in Faecal DNA: A Marker for Colorectal Cancer Screening?" *Lancet*, 63:1283-1285 (2004)
EX1038	Schuebel	Kornel Schuebel et al., "Comparing the DNA Hypermethylome with Gene Mutations in Human Colorectal Cancer," *PLoS Genet*., 3:1709–1723 (2007)
EX1039	Shen	Lanlan Shen et al., "Integrated Genetic and Epigenetic Analysis Identifies Three Different Subclasses of Colon Cancer." *Proc Natl. Acad. Sci. U.S.A.*, 104(47): 18654–18659 (2007)
EX1040	Tagore	K.S. Tagore et al. "Review Article: The Evolution to Stool DNA Testing for

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		Colorectal Cancer," *Aliment Pharmacol. Ther.*, 19: 1225-1233 (2004)
EX1041	Derks Printout	Printout of *Clinical Oncology* from Pubmed
EX1042	Grow	U.S. Patent No. 5,198,365
EX1043	Imperiale	Thomas Imperiale et al., "Fecal DNA Versus Fecal Occult Blood for Colorectal-Cancer Screening in an Average-Risk Population," *New England Journal of Medicine*, 351(26): 2704-2714 (2004)
EX1044	Ahlquist 2008	David Ahlquist et al., "Stool DNA and Occult Blood Testing for Screen Detection of Colorectal Neoplasia," *Annals of Internal Medicine*, 149(7): 441–W81 (2008)
EX1045	Rennert	Rennert et al., "Detecting K-Ras Mutations in Stool from Fecal Occult Blood Test Cards in Multiphasic Screening for Colorectal Cancer," *Cancer Letters*, 253: 258-264 (2007)
EX1046	Van Engeland	International Patent Application Publication Number WO2008/084219
EX1047	Karl	Karl, et al., Improved Diagnosis of Colorectal Cancer Using a Combination of Fecal Occult Blood and Novel Fecal Protein Markers," *Clinical Gastroenterology and Hepatology*, 6:1122–1128 (2008)
EX1048	Ostrow	Donald Ostrow, "Tests for Fecal Occult Blood, in Clinical Methods: The History, Physical, and Laboratory Examinations." Boston: Butterworths; Chapter 98 (1990)
EX1049	Cleator	U.S. Patent No. 7,195,878
EX1050	Kahi	Charles Kahi et al., "Screening, Surveillance, and Primary Prevention

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		for Colorectal Cancer: A Review of the Recent Literature," *Gastroenterology*, 135: 380-399 (2008)
EX1051	White	Victoria White and Richard Miller, "Colorectal Cancer: Prevention and Early Diagnosis," *Medicine*, 35(6) 297-301 (2007)
EX1052	Zou	H Zou et al., "Highly Methylated Genes in Colorectal Neoplasia: Implications for Screening," *Cancer Epidemiol Biomarkers Preview*, 16(12):2686-96 (2007)
EX1053	Eguchi	Susumu Eguchi et al., "Mutations of the P53 Gene in Stool of Patients with Resectable Colorectal Cancer," *Cancer*, 77:1707–1710 (1996)
EX1054	Villa	E. Villa, et al., "Identification of Subjects at Risk for Colorectal Carcinoma through a Test Based on K-Ras Determination in the Stool," *Gastroenterology*, 110:1346–1353 (1996)
EX1055	Itzkowitz 2008	Steven Itzkowtiz, "A Simplified, Noninvasive Stool DNA Test for Colorectal Cancer Detection," *American Journal of Gastroenterology*, 103: 2862-2870 (2008)
EX1056	Boynton	Boynton et al., "DNA Integrity as a Potential Marker for Stool-based Detection of Colorectal Cancer," *Clinical Chemistry*, 49:7 1058–1065 (2003)
EX1057	Jessup	J. Milburn Jessup et al., "Diagnosing Colorectal Carcinoma: Clinical and Molecular Approaches," *A Cancer Journal for Clinicians*, 47(2):70-92 (1997)

Exhibit	Short Name	Description
EX1058	Chen	WD Chen et al., "Detection in Fecal DNA of Colon Cancer-Specific Methylation of the Nonexpressed Vimentin Gene." *Journal of National Cancer Institute*, 97:1124-1132 (2005)
EX1059	Li	L-C Li and R. Dahiya, "MethPrimer: Designing Primers for Methylation Pcrs," *Bioinformatics*, 18(11): 1427-1431 (2002)
EX1060	Jones Declaration	Declaration of Brendan T. Jones
EX1061	Kanaoka 2004	Shigeru Kanaoka et al., "Potential Usefulness of Detecting Cyclooxygenase 2 Messenger RNA in Feces for Colorectal Cancer Screening," *Gastroenterology*, 127:422-427 (2004).
EX1062	Matsumura 1992	Y Matsumura and D Tarin "Significance of CD44 Gene Products for Cancer Diagnosis and Disease Evaluation," *Lancet*, 340: 1053-1058 (1992)
EX1063	Matsumura 1994	Y Mastumura et al., "Non-Invasive Detection of Malignancy by Identification of Unusual CD44 Gene Activity in Exfoliated Cancer Cells," *BMJ*, 308:619-624 (1994)
EX1064	Leung	Wai Leung et al., "Detection of Hypermethylated DNA or Cyclooxygenase-2 Messenger RNA in Fecal Samples of Patients with Colorectal Cancer or Polyps" *American Journal Gastroenterology*, 102: 1070-1076 (2007)
EX1065	Ahlquist 2000	D.A. Ahlquist et al., "Colorectal Cancer Screening by Detection of Altered Human DNA in Stool: Feasibility of a Multitarget Assay Panel,"

Exhibit	Short Name	Description
		Gastroenterology, 119(5):1219-1227 (2000)
EX1066	Ahlquist 2000(b)	D.A. Ahlquist et al., "Molecular Stool Screening for Colorectal Cancer. Using DNA Markers May Be Beneficial, But Large Scale Evaluation is Needed." *BMJ*, 29;321(7256):254-5 (2000)
EX1067	Taylor	International Patent Application Publication Number WO2009/102788
EX1068	Mahon	Suzanne Mahon, " Prevention and Screening of Gastrointestinal Cancers," *Seminars in Oncology Nursing*, 25(1): 15-31 (2009)
EX1069	Young 2004	G.P. Young, "Fecal Immunochemical Tests (FIT) vs. Office-Based Guaiac Fecal Occult Blood Test (FOBT)," *Practical Gastroenterology* 28(6): 46-56 (2004)
EX1070	Inbar	International Patent Application Publication Number WO97/25925
EX1071	Hirata	I Hirata et al., "Usefulness of Fecal Lactoferrin and Hemoglobin in Diagnosis of Colorectal Diseases," *World Journal of Gastroenterology*, 14;13(10):1569-74 (2007)
EX1072	Ahlquist 1988	D.A. Ahlquist et al., "A Stool Collection Device: The First Step in Occult Blood Testing," *Annals of Internal Medicine*, (108)4:609-612 (1988)
EX1073	Lenhard Printout	Printout of *Clinical Gastroenterology and Hepatology* Website
EX1074	Ahmed	Farid Ahmed et al., "Transcriptomic Molecular Markers for Screening Human Colon Cancer in Stool and Tissue," *Cancer Genomics and Proteomics* 4:1-20 (2007)

Exhibit	Short Name	Description
EX1075	Beaulieu	U.S. Patent No. 9,891,223
EX1076	Itzkowitz Printout	Printout of *Clinical Gastroenterology and Hepatology* Website
EX1077	Itzkowitz Press Release	Exact Sciences and Mount Sinai School of Medicine Press Release issued December 13, 2006
EX1078	Burg Declaration	Declaration of Sarah Burg
EX1079	Ware Declaration	Declaration of Donald Ware
EX1080	Second Whitney Declaration	Second Expert Declaration of Dr. Whitney Ph.D
EX1081	Cologuard Physician Brochure	Cologuard Physician Brochure as approved by the Food and Drug Administration
EX1082	Cologuard Instructions for Use	Cologuard sDNA-based Colorectal Cancer Screening Test Instructions for Use as approved by the Food and Drug Administration
EX1083	Cologuard Patent Coverage, 2024	Printout of Exact Sciences' "Patents and Trademarks" page from their website, as visited on August 9, 2024
EX1084	Cologuard Patent Coverage, 2014	Printout of Exact Sciences' "Patents and Trademarks" page from their website as of December 6, 2104. Downloaded from Wayback Machine on August 9, 2024
EX1085	’278 patent	U.S. Patent No. 9,163,278
EX1086	’278 patent Office Action Response	Response to Nonfinal Office Action filed on July 31, 2015 during prosecution of '278 patent
EX1087	Feiger	Feiger, Chase, “How This CEO Consumerized Cancer Into a $13B Enterprise” Forbes, April 8, 2024
EX1088	Exact Sciences Cologuard web page	Exact Science’s webpage regarding the Cologuard test as obtained from https://www.exactsciences.com/ourtests/

Exhibit	Short Name	Description
		cologuard on August 15, 2024.
EX1089	Second Jones Declaration	Second Declaration of Brendan T. Jones
EX1090	Backman Dep. Tr.	Transcript of the deposition of Vadim Backman taken January 15, 2025
EX1091	Wood LinkedIn Page	LinkedIn Page of Peter Wood

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CERTIFICATE OF SERVICE

The undersigned hereby certifies that a true and correct copy of the foregoing **PETITIONER'S AMENDED EXHIBIT LIST** was served on January 27, 2025 via the delivery method indicated to the attorneys of record for the Patent Owner as follows:

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