

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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MERCK, SHARP & DOHME LLC,  
Petitioner

v.

HALOZYME, INC.,  
Patent Owner

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Case PGR2025-00030  
U.S. Patent No. 12,054,758

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**PATENT OWNER'S UPDATED EXHIBIT LIST**

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Patent Owner submits this Updated Exhibit List to accompany service of the public, redacted version of Exhibit 2401.

**PATENT OWNER’S UPDATED EXHIBIT LIST**

<b>Exhibit No.</b>	<b>Description</b>
<b>2001</b>	Declaration of Barbara Triggs-Raine, Ph.D. in support of Patent Owner Discretionary Denial Brief (WITHDRAWN)
<b>2002</b>	<i>Curriculum Vitae</i> of Barbara Triggs-Raine, Ph.D.
<b>2003</b>	Disclaimer in a Patent under 37 C.F.R. § 1.321(a), filed in U.S. Patent Application No. 18/066,960, June 13, 2025
<b>2004</b>	“Halozyme Therapeutics to Present Data on PEGPH20 at the Upcoming 2011 EORTC-NCIASCO Annual Meeting,” Halozyme Therapeutics, Inc. Press Release, October 24, 2011
<b>2005</b>	LinkedIn profiles of Michael Shepard, Robert Connor, Ge (Gina) Wei, and Qiping Zhao
<b>2006</b>	Sequence listing of U.S. Patent Application No. 18/066,960
<b>2007</b>	Gifre, L., et al., “Trends in recombinant protein use in animal production,” <i>Microb Cell Fact</i> 16:40 (2017)
<b>2008</b>	“Recombinant Drugs,” Smithsonian Institution, accessible at <a href="https://www.si.edu/spotlight/birth-of-biotech/recombinant-drugs">https://www.si.edu/spotlight/birth-of-biotech/recombinant-drugs</a> (last accessed February 27, 2025)
<b>2009</b>	Naz, R., “Antisperm Contraceptive Vaccines: Where We Are and Where We Are Going?,” <i>American Journal of Reproductive Immunology</i> 66:5-12 (2011)
<b>2010</b>	Primakoff, P., et al., “Fully effective contraception in male and female guinea pigs immunized with the sperm protein PH-20,” <i>Nature</i> 335:543-546 (October 6, 1988)

<b>Exhibit No.</b>	<b>Description</b>
<b>2011</b>	Definition of “guinea pig,” Merriam-Webster OnLine, archived by the Internet Archive on February 21, 2010, accessible at <a href="https://web.archive.org/web/20100221175034/http://www.merriam-webster.com/dictionary/guinea%20pig">https://web.archive.org/web/20100221175034/http://www.merriam-webster.com/dictionary/guinea%20pig</a> (last accessed February 27, 2025)
<b>2012</b>	“A decade in numbers,” <i>Nature Materials</i> 11:743-744 (September 2012)
<b>2013</b>	Lin, Y., <i>et al.</i> , “Molecular cloning of the human and monkey sperm surface protein PH-20,” <i>Proc. Natl. Acad. Sci USA</i> 90:10071-10075 (November 1993)
<b>2014</b>	<i>Intentionally Left Blank</i>
<b>2015</b>	File History of U.S. Patent No. 7,872,107
<b>2016</b>	Pils, B., <i>et al.</i> , “Variation in structural location and amino acid conservation of functional sites in protein domain families,” <i>BMC Bioinformatics</i> 6 (August 25, 2005)
<b>2017</b>	European Patent Application Publication No. 0953574 A1, published November 3, 1999
<b>2018</b>	Duterme, C., <i>et al.</i> , “Two Novel Functions of Hyaluronidase-2 (Hyal2) Are Formation of the Glycocalyx and Control of CD44-ERM Interactions,” <i>The Journal of Biological Chemistry</i> , 284(48):33495-33508 (November 27, 2009)
<b>2019</b>	Atmuri, V., <i>et al.</i> , “Hyaluronidase 3 ( <i>HYAL3</i> ) knockout mice do not display evidence of hyaluronan accumulation,” <i>Matrix Biology</i> 27 (2008)
<b>2020</b>	Hemming, R., <i>et al.</i> , “Mouse Hyal3 encodes a 45- to 56-kDa glycoprotein whose overexpression increases hyaluronidase 1 activity in cultured cells,” <i>Glycobiology</i> 18(4):280-289 (2008)

<b>Exhibit No.</b>	<b>Description</b>
<b>2021</b>	Miller, A., “Hyaluronidase 2 and its intriguing role as a cell-entry receptor for oncogenic sheep retroviruses,” <i>Seminars in Cancer Biology</i> 18:296-301 (2008)
<b>2022</b>	Kaneiwa, T. <i>et al.</i> , “Identification of human hyaluronidase-4 as a novel chondroitin sulfate hydrolase that preferentially cleaves the galactosaminidic linkage in the trisulfated tetrasaccharide sequence,” <i>Glycobiology</i> 20(3):300-309 (March 2010)
<b>2023</b>	Petition for Post-Grant Review, <i>Merck Sharp &amp; Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00004 (P.T.A.B.), November 26, 2024
<b>2024</b>	Petition for Post-Grant Review, <i>Merck Sharp &amp; Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00003 (P.T.A.B.), November 12, 2024
<b>2025</b>	Petition for Post-Grant Review, <i>Merck Sharp &amp; Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00009 (P.T.A.B.), December 27, 2024
<b>2026</b>	Petition for Post-Grant Review, <i>Merck Sharp &amp; Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00006 (P.T.A.B.), December 10, 2024
<b>2027</b>	Petition for Post-Grant Review, <i>Merck Sharp &amp; Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00017 (P.T.A.B.), January 17, 2025
<b>2028</b>	Petition for Post-Grant Review, <i>Merck Sharp &amp; Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00024 (P.T.A.B.), February 21, 2025
<b>2029</b>	Declaration of Michael Hecht, Ph.D. (Exhibit 1003), <i>Merck Sharp &amp; Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00004 (P.T.A.B.), November 26, 2024

<b>Exhibit No.</b>	<b>Description</b>
<b>2030</b>	Declaration of Michael Hecht, Ph.D. (Exhibit 1003), <i>Merck Sharp &amp; Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00003 (P.T.A.B.), November 12, 2024
<b>2031</b>	Declaration of Michael Hecht, Ph.D. (Exhibit 1003), <i>Merck Sharp &amp; Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00009 (P.T.A.B.), December 27, 2024
<b>2032</b>	Declaration of Michael Hecht, Ph.D. (Exhibit 1003), <i>Merck Sharp &amp; Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00006 (P.T.A.B.), December 10, 2024
<b>2033</b>	Declaration of Michael Hecht, Ph.D. (Exhibit 1003), <i>Merck Sharp &amp; Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00017 (P.T.A.B.), January 17, 2025
<b>2034</b>	Declaration of Michael Hecht, Ph.D. (Exhibit 1003), <i>Merck Sharp &amp; Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00024 (P.T.A.B.), February 21, 2025
<b>2035</b>	Lokeshwar, V., <i>et al.</i> , "Regulation of Hyaluronidase Activity by Alternative mRNA Splicing," <i>The Journal of Biological Chemistry</i> 277(37):33654-33663 (2002)
<b>2036</b>	Declaration of Michael Hecht, Ph.D. (Exhibit 1003), <i>Merck Sharp &amp; Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00033 (P.T.A.B.), March 7, 2025
<b>2037</b>	Petition for Post-Grant Review, <i>Merck Sharp &amp; Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00033 (P.T.A.B.), March 7, 2025
<b>2038</b>	Declaration of Michael Hecht, Ph.D. (Exhibit 1003), <i>Merck Sharp &amp; Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00039 (P.T.A.B.), March 28, 2025
<b>2039</b>	Petition for Post-Grant Review, <i>Merck Sharp &amp; Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00039 (P.T.A.B.), March 28, 2025

<b>Exhibit No.</b>	<b>Description</b>
<b>2040-2044</b>	<i>Intentionally Left Blank</i>
<b>2045</b>	Declaration of Tyler C. Liu (originally served as Exhibit 2068) ( <i>served not filed</i> )
<b>2046</b>	“2023 Pharma 50: The 50 largest pharma companies in the world,” drugdiscoverytrends.com, accessible at <a href="https://www.drugdiscoverytrends.com/2023-pharma-50-largest-companies/">https://www.drugdiscoverytrends.com/2023-pharma-50-largest-companies/</a> (last accessed April 28, 2025)
<b>2047</b>	“Merck Announces Fourth-Quarter and Full-Year 2024 Financial Results,” Merck Press Release, February 4, 2025
<b>2048</b>	“Products list,” Merck.com, accessible at <a href="https://www.merck.com/products/">https://www.merck.com/products/</a> (last accessed April 28, 2025)
<b>2049</b>	<i>Intentionally Left Blank</i>
<b>2050</b>	“Merck & Company, Inc. Common Stock (new) (MRK),” Nasdaq.com, accessible at <a href="https://www.nasdaq.com/market-activity/stocks/mrk">https://www.nasdaq.com/market-activity/stocks/mrk</a> (last accessed April 28, 2025)
<b>2051</b>	“Halozyme Therapeutics, Inc. Common Stock (HALO),” Nasdaq.com, accessible at <a href="https://www.nasdaq.com/market-activity/stocks/halo">https://www.nasdaq.com/market-activity/stocks/halo</a> (last accessed April 28, 2025)
<b>2052</b>	“Halozyme reports full year 2024 record revenue of \$1.015 billion and Exceeds its Financial Guidance for Royalty Revenue, Adjusted EBITDA and Non-GAAP Diluted EPS,” Halozyme.com, accessible at <a href="https://ir.halozyme.com/news/news-details/2025/HALOZYME-REPORTS-FULL-YEAR-2024-RECORD-REVENUE-OF-1.015-BILLION-AND-EXCEEDS-ITS-FINANCIAL-GUIDANCE-FOR-ROYALTY-REVENUE-ADJUSTED-EBITDA-AND-NON-GAAP-DILUTED-EPS/default.aspx">https://ir.halozyme.com/news/news-details/2025/HALOZYME-REPORTS-FULL-YEAR-2024-RECORD-REVENUE-OF-1.015-BILLION-AND-EXCEEDS-ITS-FINANCIAL-GUIDANCE-FOR-ROYALTY-REVENUE-ADJUSTED-EBITDA-AND-NON-GAAP-DILUTED-EPS/default.aspx</a> (last accessed April 28, 2025)
<b>2053</b>	“Commercial Products,” Halozyme.com, accessible at <a href="https://halozyme.com/commercial-products/">https://halozyme.com/commercial-products/</a> (last accessed April 28, 2025)

<b>Exhibit No.</b>	<b>Description</b>
<b>2054</b>	“About Us,” Halozyme.com, accessible at <a href="https://halozyme.com/about-us/#our-focus">https://halozyme.com/about-us/#our-focus</a> (last accessed April 28, 2025)
<b>2055</b>	Second Declaration of Barbara Triggs-Raine, Ph.D. in Support of Patent Owner’s Preliminary Response (WITHDRAWN)
<b>2056</b>	Petition for Post-Grant Review, <i>Merck Sharp &amp; Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00042 (P.T.A.B.), April 15, 2025
<b>2057</b>	Declaration of Michael Hecht, Ph.D. (Exhibit 1003), <i>Merck Sharp &amp; Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00042 (P.T.A.B.), April 15, 2025
<b>2058</b>	Complaint for Patent Infringement and Declaratory Judgment of Patent Infringement, <i>Halozyme, Inc. v. Merck Sharp &amp; Dohme Corp.</i> , Civil Action No. 2:25-cv-03179-ES (D.N.J.), filed April 24, 2025
<b>2059</b>	“Alteogen announces amendment to license agreement with MSD,” Alteogen Press Release, February 22, 2025, accessible at <a href="https://www.alteogen.com/en/ir_1/?uid=2223&amp;mod=document&amp;pageid=1">https://www.alteogen.com/en/ir_1/?uid=2223&amp;mod=document&amp;pageid=1</a> (last accessed April 28, 2025)
<b>2060</b>	Petition for Post-Grant Review, <i>Merck Sharp &amp; Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00046 (P.T.A.B.), April 29, 2025
<b>2061</b>	Declaration of Michael Hecht, Ph.D. (Exhibit 1003), <i>Merck Sharp &amp; Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00046 (P.T.A.B.), April 29, 2025
<b>2062</b>	Petition for Post-Grant Review, <i>Merck Sharp &amp; Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00050 (P.T.A.B.), May 7, 2025
<b>2063</b>	Declaration of Michael Hecht, Ph.D. (Exhibit 1003), <i>Merck Sharp &amp; Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00050 (P.T.A.B.), May 7, 2025

<b>Exhibit No.</b>	<b>Description</b>
<b>2064</b>	Declaration of Michael Hecht, Ph.D. (Exhibit 1003), <i>Merck Sharp &amp; Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00053 (P.T.A.B.), June 6, 2025
<b>2065</b>	Petition for Post-Grant Review, <i>Merck Sharp &amp; Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00053 (P.T.A.B.), June 6, 2025
<b>2066</b>	Petition for Post-Grant Review, <i>Merck Sharp &amp; Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00052 (P.T.A.B.), June 27, 2025
<b>2067</b>	Declaration of Michael Hecht, Ph.D. (Exhibit 1003), <i>Merck Sharp &amp; Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00052 (P.T.A.B.), June 27, 2025
<b>2068</b>	Declaration of Melanie A. Simpson, Ph.D. in Support of Patent Owner's Response
<b>2069</b>	<i>Curriculum Vitae</i> of Melanie A. Simpson, Ph.D.
<b>2070</b>	Declaration of Gregory A. Petsko, Ph.D. in Support of Patent Owner's Response
<b>2071</b>	<i>Curriculum Vitae</i> of Gregory A. Petsko, Ph.D.
<b>2072</b>	Declaration of Gary N. Cherr, Ph.D. in Support of Patent Owner's Response
<b>2073</b>	<i>Curriculum Vitae</i> of Gary N. Cherr, Ph.D.
<b>2074</b>	Declaration of James J. Moon, Ph.D. in Support of Patent Owner's Response
<b>2075</b>	<i>Curriculum Vitae</i> of James J. Moon, Ph.D.
<b>2076</b>	Transcript of the Deposition of Michael Hecht, Ph.D., August 26, 2025
<b>2077</b>	Transcript of the Deposition of Dr. Sheldon Park, August 7, 2025

<b>Exhibit No.</b>	<b>Description</b>
<b>2078</b>	Transcript of the Deposition of Dr. Sheldon Park, August 21, 2025
<b>2079</b>	Koehl, P. et al., "Structure-based conformational preferences of amino acids," <i>PNAS</i> , 96(22):12524-12529 (October 26, 1999)
<b>2080</b>	Pommié, C. et al., "IMGT standardized criteria for statistical analysis of immunoglobulin V-REGION amino acid properties," <i>Journal of Molecular Recognition</i> , 17:17-32 (2004)
<b>2081</b>	<i>Intentionally Left Blank</i>
<b>2082</b>	Kyte, J. et al., "A Simple Method for Displaying the Hydrophobic Character of a Protein," <i>Journal of Molecular Biology</i> , 157:105-132 (1982)
<b>2083</b>	<i>Assay Guidance Manual</i> , Eli Lilly & Company and the National Center for Advancing Translational Sciences
<b>2084</b>	"The Central Role of Enzymes as Biological Catalysts," NCBI Bookshelf, National Institutes of Health (accessible at <a href="https://www.ncbi.nlm.nih.gov/books/NBK9921/">https://www.ncbi.nlm.nih.gov/books/NBK9921/</a> , last accessed September 22, 2025)
<b>2085</b>	French, S. et al., "What is a Conservative Substitution?," <i>Journal of Molecular Evolution</i> , 19:171-175 (1983)
<b>2086</b>	El-Safory, N. et al., "Hyaluronidases, a group of glycosidases: Current and future perspectives," <i>Carbohydrate Polymers</i> , 81:165-181 (2010)
<b>2087</b>	Lu, J. et al., "Hyaluronidase: structure, mechanism of action, diseases and therapeutic targets," <i>Molecular Biomedicine</i> , 6:50-77 (2025)
<b>2088</b>	Stern, R. et al., "Mammalian Hyaluronidases," <i>Hyaluronan Index</i> (2000)
<b>2089</b>	Gmachl, M. et al., "The human sperm protein PH-20 has hyaluronidase activity," <i>FEBS Letters</i> , 336(3):545-548 (December 1993)

<b>Exhibit No.</b>	<b>Description</b>
<b>2090</b>	Gmachl, M. et al., “Bee venom hyaluronidase is homologous to a membrane protein of mammalian sperm,” <i>PNAS USA</i> , 90:3569-3573 (April 1993)
<b>2091</b>	Davies, G. et al., “Structures and mechanisms of glycosyl hydrolases,” <i>Current Biology</i> , 3:853-859 (1995)
<b>2092</b>	Marković-Housley, Z. et al., “Crystal Structure of Hyaluronidase, a Major Allergen of Bee Venom,” <i>Structure</i> , 8:1025-1035 (October 2000)
<b>2093</b>	U.S. Patent No. 8,343,487 B2 to Baker et al., issued January 1, 2013
<b>2094</b>	Thermo Scientific Multidrop® 384 User Manual, Rev. 3.4, Thermo Fisher Scientific (October 2008)
<b>2095</b>	<i>Intentionally Left Blank</i>
<b>2096</b>	Frost, G. et al., “A Microtiter-Based Assay for Hyaluronidase Activity Not Requiring Specialized Reagents,” <i>Analytical Biochemistry</i> , 251:263-269 (1997)
<b>2097</b>	U.S. Patent Application Publication No. 2005/0260186 A1 to Bookbinder et al., published November 24, 2005
<b>2098</b>	Delpech, B. et al., “Enzyme-Linked Hyaluronectin: A Unique Reagent for Hyaluronan Assay and Tissue Location and for Hyaluronidase Activity Detection,” <i>Analytical Biochemistry</i> , 229:35-41 (1995)
<b>2099</b>	Takahashi, T. et al., “A fluorimetric Morgan-Elson assay method for hyaluronidase activity,” <i>Analytical Biochemistry</i> , 322:257-263 (2003)
<b>2100</b>	Vines, C.V. et al., “Identification of a Hyaluronic Acid (HA) Binding Domain in the PH-20 Protein That May Function in Cell Signaling,” <i>Molecular Reproduction and Development</i> , 60:542-552 (2001)

<b>Exhibit No.</b>	<b>Description</b>
<b>2101</b>	Wassarman, P. et al., “Structure and Function of the Mammalian Egg Zona Pellucida,” <i>Journal of Experimental Zoology (Mol Dev Evol)</i> , 285:251-258 (1999)
<b>2102</b>	Yudin, A. et al., “Structure of the cumulus matrix and zona pellucida in the golden hamster: A new view of sperm interaction with oocyte-associated extracellular matrices,” <i>Cell Tissue Res</i> 251:555-564 (1988)
<b>2103</b>	Tollner, T. et al., “Multifunctional glycoprotein DEFB126 – a curious story of defensin-clad spermatozoa,” <i>Nature Reviews   Urology</i> , Vol. 9, pp. 365-375 (July 2012)
<b>2104</b>	Visconti, P. et al., “The Molecular Basis of Sperm Capacitation,” <i>Journal of Andrology</i> , 19(2):242-248 (March/April 1998)
<b>2105</b>	Wassarman, P. et al., “A profile of fertilization in mammals,” <i>Nature Cell Biology</i> , Vol. 3, pp. E59-E64 (February 2001)
<b>2106</b>	Bailey, J., “Factors Regulating Sperm Capacitation,” <i>Systems Biology in Reproductive Medicine</i> , 56:334-348 (2010)
<b>2107</b>	Sabeur, K. et al., “The PH-20 Protein in Human Spermatozoa,” <i>Journal of Andrology</i> , 18(2):151-158 (March/April 1997)
<b>2108</b>	Hunnicutt, G. et al., “Sperm Surface Protein PH-20 Is Bifunctional: One Activity Is a Hyaluronidase and a Second, Distinct Activity is Required in Secondary Sperm-Zona Binding,” <i>Biology of Reproduction</i> , 55:80-86 (1996)
<b>2109</b>	Tollner, T. et al., “Beta-Defensin 126 on the Surface of Macaque Sperm Mediates Attachment of Sperm to Oviductal Epithelia,” <i>Biology of Reproduction</i> , 78:400-412 (2008)
<b>2110</b>	Tollner, T. et al., “Release of DEFB126 From Macaque Sperm and Completion of Capacitation Are Triggered by Conditions That Simulate Perioviductal Oviductal Fluid,” <i>Molecular Reproduction &amp; Development</i> , 76:431-443 (2009)

<b>Exhibit No.</b>	<b>Description</b>
<b>2111</b>	Yudin, A. et al., "Beta-Defensin 126 on the Cell Surface Protects Sperm from Immunorecognition and Binding of Anti-Sperm Antibodies," <i>Biology of Reproduction</i> , 73:1243-1252 (2005)
<b>2112</b>	Yudin, A. et al., "The Carbohydrate Structure of DEFB126, the Major Component of the Cynomolgus Macaque Sperm Plasma Membrane Glycocalyx," <i>Journal of Membrane Biology</i> , 207:119-129 (2005)
<b>2113</b>	Tollner, T. et al., "A Common Mutation in the Defensin DEFB126 Causes Impaired Sperm Function and Subfertility," <i>Science Translational Medicine</i> , 3(92):1-9 (2011), with erratum
<b>2114</b>	Frayne, J. et al., "The potential use of sperm antigens as targets for immunocontraception; past, present and future," <i>Journal of Reproductive Immunology</i> , 43:1-33 (1999)
<b>2115</b>	Yanagimachi, R., "Acceleration of the Acrosome Reaction and Activation of Guinea Pig Spermatozoa by Detergents and Other Reagents," <i>Biology of Reproduction</i> , 13:519-526 (1975)
<b>2116</b>	Chamley, L. et al., "Antisperm antibodies and conception," <i>Seminars in Immunopathology</i> , 29:169-184 (2007)
<b>2117</b>	Kremer, J. et al., "The significance of antisperm antibodies for sperm-cervical mucus interaction," <i>Human Reproduction</i> , 7(6):781-784 (1992)
<b>2118</b>	Primakoff, P. et al., "A Map of the Guinea Pig Sperm Surface Constructed with Monoclonal Antibodies," <i>Developmental Biology</i> , 98:417-428 (1983)
<b>2119</b>	Myles, D. et al., "Localized Surface Antigens of Guinea Pig Sperm Migrate to New Regions Prior to Fertilization," <i>The Journal of Cell Biology</i> , 99:1634-1641 (1984)

<b>Exhibit No.</b>	<b>Description</b>
<b>2120</b>	Chan, C. et al., "Identification of Linear Surface Epitopes on the Guinea Pig Sperm Membrane Protein PH-20," <i>Life Sciences</i> , 64(22):1989-2000 (1999)
<b>2121</b>	Ganesan, R. et al., "Structural and mechanistic insight into how antibodies inhibit serine proteases," <i>Biochemistry Journal</i> , 430:179-189 (2010)
<b>2122</b>	Mestecky, J. et al., "Mucosal Immune System of the Human Genital Tract," <i>The Journal of Infectious Diseases</i> , 179(Suppl 3):S470-S474 (1999)
<b>2123</b>	<i>Intentionally Left Blank</i>
<b>2124</b>	<i>Intentionally Left Blank</i>
<b>2125</b>	<i>Intentionally Left Blank</i>
<b>2126</b>	Suri, A., "Contraceptive vaccines targeting sperm," <i>Expert Opinion on Biological Therapy</i> , 5(3):381-392 (2005)
<b>2127</b>	Morrow, R. et al., "Sustained release of proteins from a modified vaginal ring device," <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 77:3-10 (2011)
<b>2128</b>	Hussain, A. et al., "The vagina as a route for systemic drug delivery," <i>Journal of Controlled Release</i> , 103:301-313 (2005)
<b>2129</b>	Veazey, R. et al., "Prevention of virus transmission to macaque monkeys by a vaginally applied monoclonal antibody to HIV-1 gp120," <i>Nature Medicine</i> , 9(3):343-346 (2003)
<b>2130</b>	Baloglu, E. et al., "Strategies to Prolong the Intravaginal Residence Time of Drug Delivery Systems," <i>Journal of Pharmaceutical Science</i> , 12(3):312-336 (2009)
<b>2131</b>	Suarez, S. et al., "Sperm transport in the female reproductive tract," <i>Human Reproduction Update</i> , 12(1):23-37 (2006)

<b>Exhibit No.</b>	<b>Description</b>
<b>2132</b>	Cauci, S. et al., “Combination of vaginal pH with vaginal sialidase and prolidase activities for prediction of low birth weight and preterm birth,” <i>American Journal of Obstetrics and Gynecology</i> , 192:489-496 (2005)
<b>2133</b>	Flori, F. et al., “Menstrual cycle–related sialidase activity of the female cervical mucus is associated with exosome-like vesicles,” <i>Fertility and Sterility</i> , 88(Suppl 2):1212-1219 (October 2007)
<b>2134</b>	Mestecky, J. et al., “Antibody-mediated protection and the mucosal immune system of the genital tract: relevance to vaccine design,” <i>Journal of Reproductive Immunology</i> , 85:81-85 (2010)
<b>2135</b>	Kim, S. et al., “Antibody Engineering for the Development of Therapeutic Antibodies,” <i>Molecules and Cells</i> , 20(1):17-29 (2005)
<b>2136</b>	Lardner, A., “The effects of extracellular pH on immune function,” <i>Journal of Leukocyte Biology</i> , 69:522-530 (April 2001)
<b>2137</b>	Lipman, N. et al., “Monoclonal Versus Polyclonal Antibodies: Distinguishing Characteristics, Applications, and Information Resources,” <i>ILAR Journal</i> , 46(3):258-268 (2005)
<b>2138</b>	Rhee, J. et al., “Mucosal vaccine adjuvants update,” <i>Clinical and Experimental Vaccine Research</i> , 1:50-63 (2012)
<b>2139</b>	Lycke, N., “Recent progress in mucosal vaccine development: potential and limitations,” <i>Nature Review</i> , 12:592-605 (August 2012)
<b>2140</b>	Rudin, A. et al., “Differential Kinetics and Distribution of Antibodies in Serum and Nasal and Vaginal Secretions after Nasal and Oral Vaccination of Humans,” <i>Infection and Immunity</i> , 66(7):3390-3396 (July 1998)
<b>2141</b>	Wu, H. et al., “Generation of Female Genital Tract Antibody Responses by Local or Central (Common) Mucosal Immunization,” <i>Infection and Immunity</i> , 68(10):5539-5545 (October 2000)

<b>Exhibit No.</b>	<b>Description</b>
<b>2142</b>	Russell, M., "Immunization for Protection of the Reproductive Tract: A Review," <i>American Journal of Reproductive Immunology</i> , 47:265-268 (2002)
<b>2143</b>	Uppada, S. et al., "Enhanced humoral and mucosal immune responses after intranasal immunization with chimeric multiple antigen peptide of LcrV antigen epitopes of <i>Yersinia pestis</i> coupled to palmitate in mice," <i>Vaccine</i> , 29:9352-9360 (2011)
<b>2144</b>	<i>Intentionally Left Blank</i>
<b>2145</b>	Gallichan, W. et al., "Specific secretory immune responses in the female genital tract following intranasal immunization with a recombinant adenovirus expressing glycoprotein B of herpes simplex virus," <i>Vaccine</i> , 13(6):1589-1595 (1995)
<b>2146</b>	Johansson, E. et al., "Antibodies and Antibody-Secreting Cells in the Female Genital Tract after Vaginal or Intranasal Immunization with Cholera Toxin B Subunit or Conjugates," <i>Infection and Immunity</i> , 66(2):514-520 (February 1998)
<b>2147</b>	Bergquist, C. et al., "Intranasal Vaccination of Humans with Recombinant Cholera Toxin B Subunit Induces Systemic and Local Antibody Responses in the Upper Respiratory Tract and the Vagina," <i>Infection and Immunity</i> , 65(7):2676-2684 (July 1997)
<b>2148</b>	Neto, H. et al., "Efficacy and Safety of 1 and 2 Doses of Live Attenuated Influenza Vaccine in Vaccine-Naive Children," <i>The Pediatric Infectious Disease Journal</i> , 28(5):365-371 (May 2009)
<b>2149</b>	Rhorer, J. et al., "Efficacy of live attenuated influenza vaccine in children: A meta-analysis of nine randomized clinical trials," <i>Vaccine</i> , 27:1101-1110 (2009)
<b>2150</b>	Mielcarek, N., "Genital Antibody Responses in Mice after Intranasal Infection with an Attenuated Candidate Vector Strain of <i>Bordetella pertussis</i> ," <i>Infection and Immunity</i> , 68(2):485-491 (February 2000)

<b>Exhibit No.</b>	<b>Description</b>
<b>2151</b>	Houghton, A., “Immune recognition of self in immunity against cancer,” <i>The Journal of Clinical Investigation</i> , 114(4):468-471 (August 2004)
<b>2152</b>	Wan, Y. et al., “Prepared and screened a modified TNF- $\alpha$ molecule as TNF- $\alpha$ autovaccine to treat LPS induced endotoxic shock and TNF- $\alpha$ induced cachexia in mouse,” <i>Cellular Immunology</i> , 246:55-64 (2007)
<b>2153</b>	Dieudé, M. et al., “Autoantibodies to heat shock protein 60 promote thrombus formation in a murine model of arterial thrombosis,” <i>Journal of Thrombosis and Haemostasis</i> , 7:710-719 (2009)
<b>2154</b>	Oliver, A. et al., “Rat and Human Myelin Oligodendrocyte Glycoproteins Induce Experimental Autoimmune Encephalomyelitis by Different Mechanisms in C57BL/6 Mice,” <i>The Journal of Immunology</i> , 171(1):462-468 (2003)
<b>2155</b>	Trentham, D. et al. “Autoimmunity to Type II Collagen: An Experimental Model of Arthritis,” <i>The Journal of Experimental Medicine</i> , 146:857-868 (1977)
<b>2156</b>	Courtenay, J. et al., “Immunisation against heterologous type II collagen induces arthritis in mice,” <i>Nature</i> , 283:666-668 (1980)
<b>2157</b>	Tomita, M. et al., “Hybridoma technologies for antibody production,” <i>Immunotherapy</i> , 3(3):371-380 (2011)
<b>2158</b>	Excerpts from <i>Antibody Methods and Protocols</i> , Proetzel G. and Ebersbach H. eds., Humana Press (2012) (including Zhang, C., “Hybridoma Technology for the Generation of Monoclonal Antibodies,” Chapter 7; and Lee, E. et al., “The Application of Transgenic Mice for Therapeutic Antibody Discovery,” Chapter 8)
<b>2159</b>	Zeitlin, L. et al., “Topically Applied Human Recombinant Monoclonal IgG1 Antibody and Its Fab and F(ab') <sub>2</sub> Fragments Protect Mice from Vaginal Transmission of HSV-2,” <i>Virology</i> , 225:213-215 (1996)

<b>Exhibit No.</b>	<b>Description</b>
<b>2160</b>	Sherwood, J. et al., “Controlled release of antibodies for long-term topical passive immunoprotection of female mice against genital herpes,” <i>Nature Biotechnology</i> , 14:468-471 (April 1996)
<b>2161</b>	Veselinovic, M. et al., “Topical gel formulation of broadly neutralizing anti-HIV-1 monoclonal antibody VRC01 confers protection against HIV-1 vaginal challenge in a humanized mouse model,” <i>Virology</i> , 432:505-510 (2012)
<b>2162</b>	Schweitzer, M. et al., “Microscopic, chemical and molecular methods for examining fossil preservation,” <i>Comptes Rendus Palevol</i> , 7:159-184 (2008)
<b>2163</b>	National Medal of Science in Medicine Citation for Gregory Petsko, 2022 (accessible at <a href="https://nationalmedals.org/laureate/gregory-petsko/?amp=1">https://nationalmedals.org/laureate/gregory-petsko/?amp=1</a> , last accessed September 19, 2025)
<b>2164</b>	Petsko, G., et al., <i>Protein Structure and Function</i> , New Science Press (2004)
<b>2165</b>	U.S. Patent Application Publication No. 2010/0143457 A1 to Wei et al., published June 10, 2010
<b>2166</b>	Petsko Patent Analysis Data
<b>2167</b>	Huang, C. et al., “Effect of sublingual administration with a native or denatured protein allergen and adjuvant CpG oligodeoxynucleotides or cholera toxin on systemic TH2 immune responses and mucosal immunity in mice,” <i>Annals of Allergy, Asthma, and Immunology</i> , 99:443-452 (November 2007)
<b>2168</b>	Profile of Gregory A. Petsko, American Academy of Arts and Sciences (accessible at <a href="https://www.amacad.org/person/gregory-petsko">https://www.amacad.org/person/gregory-petsko</a> , last accessed September 22, 2025)
<b>2169</b>	“BLAST Topics,” National Institutes of Health (accessible at <a href="https://blast.ncbi.nlm.nih.gov/doc/blast-topics">https://blast.ncbi.nlm.nih.gov/doc/blast-topics</a> , last accessed September 22, 2025)

<b>Exhibit No.</b>	<b>Description</b>
2170	Chain, E. et al., “Identity of Hyaluronidase and Spreading Factor,” <i>British Journal of Experimental Pathology</i> , 21(6):324-338 (1940)
2171	Tollner, T. et al., “Macaque Sperm Release ESP13.2 and PSP94 During Capacitation: The Absence of ESP13.2 Is Linked to Sperm-Zona Recognition and Binding,” <i>Molecular Reproduction and Development</i> , 69:325-337 (2004)
2172	Yudin, A. et al., “Characterization of the active site of monkey sperm hyaluronidase,” <i>Reproduction</i> , 121:735-743 (2001)
2173	Yudin, A. et al., “PH-20 but Not Acrosin Is Involved in Sperm Penetration of the Macaque Zona Pellucida,” <i>Molecular Reproduction and Development</i> , 53:350-362 (1999)
2174	Errata from Park Deposition (introduced during Park deposition and marked by court reporter as “Park 2068”)
2175	Mutational Analysis Table, 2024-11-7, Native Excel File (introduced during Park deposition and marked by court reporter as “Park 2069”)
2176	Mutational Analysis Table, 2024-11-7, PDF File (introduced during Park deposition and marked by court reporter as “Park 2070”)
2177	E-mail Correspondence dated August 14, 2025
2178	1LOH pdb file
2179	1FCV pdb file
2180	2PE4 pdb file
2181	8SMN pdb file
2182	L317A Swiss Model
2183	L317I Swiss Model
2184	L317K Swiss Model

<b>Exhibit No.</b>	<b>Description</b>
<b>2185</b>	L317M Swiss Model
<b>2186</b>	N47A_N219A_L317Q Swiss Model
<b>2187</b>	N47A_N131A_L317Q Swiss Model
<b>2188</b>	N47A_N131A_N219A_L317Q Swiss Model
<b>2189</b>	N131A_N219A_L317Q Swiss Model
<b>2190</b>	Orangutan_L317Q Swiss Model
<b>2191</b>	PH20 Swiss Model
<b>2192</b>	L317Q Swiss Model
<b>2193</b>	L317R Swiss Model
<b>2194</b>	<i>Intentionally Left Blank</i>
<b>2195</b>	Chimpanzee_L317Q Swiss Model
<b>2196</b>	Gibbon_L317Q Swiss Model
<b>2197-2201</b>	<i>Intentionally Left Blank</i>
<b>2202</b>	Declaration of Tyler C. Liu ( <i>served not filed</i> )
<b>2203-2399</b>	<i>Intentionally Left Blank</i>
<b>2400</b>	Merck & Co., Inc. Form 10-Q, Securities and Exchange Commission, November 5, 2025
<b>2401</b>	E-mail Correspondence between Counsel for Petitioner and Patent Owner, January 6, 2026 (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)
<b>2402</b>	MERCK_PGR00006 - 30November2023 Merck 031988 Master Agreement - executed 4932-6153-3216 1_Redacted (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)

<b>Exhibit No.</b>	<b>Description</b>
<b>2403</b>	MERCK_PGR00056 - MSA - Term 4 - Dechert LLP_Signed_Redacted (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)
<b>2404</b>	MERCK_PGR00467 - Mark Stewart Offer Letter_Redacted (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)
<b>2405</b>	MERCK_PGR00052 - Hecht Engagement Letter (7-19)_Signed (Redacted)_Redacted (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)
<b>2406</b>	MERCK_PGR00086 - Park Engagement Letter with signature - sjp (redacted)_Redacted (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)
<b>2407</b>	“Executive team,” MSD, accessible at <a href="http://www.msd.com/company-overview/leadership/executive-team/">http://www.msd.com/company-overview/leadership/executive-team/</a> (last accessed January 5, 2026)
<b>2408</b>	“Executive team,” Merck, accessible at <a href="http://www.merck.com/company-overview/leadership/executive-team/">http://www.merck.com/company-overview/leadership/executive-team/</a> (last accessed January 5, 2026)
<b>2409</b>	“Board of directors,” MSD, accessible at <a href="http://www.msd.com/company-overview/leadership/board-of-directors/">http://www.msd.com/company-overview/leadership/board-of-directors/</a> (last accessed January 5, 2026)
<b>2410</b>	“Board of directors,” Merck, accessible at <a href="http://www.merck.com/company-overview/leadership/board-of-directors/">http://www.merck.com/company-overview/leadership/board-of-directors/</a> (last accessed January 5, 2026)
<b>2411</b>	“Contact us,” MSD, accessible at <a href="http://www.msd.com/contact-us/">http://www.msd.com/contact-us/</a> (last accessed January 5, 2026)
<b>2412</b>	“Contact us,” Merck, accessible at <a href="http://www.merck.com/contact-us/">http://www.merck.com/contact-us/</a> (last accessed January 5, 2026)

<b>Exhibit No.</b>	<b>Description</b>
2413	“Who we are,” MSD, accessible at <a href="http://www.msd.com/company-overview/">http://www.msd.com/company-overview/</a> (last accessed January 5, 2026)
2414	Who we are,” Merck, accessible at <a href="http://www.merck.com/company-overview/">http://www.merck.com/company-overview/</a> (last accessed January 5, 2026)
2415	Merck & Co., Inc. Form 10-K, Securities and Exchange Commission, February 25, 2025
2416	USPTO OED Practitioner Search - Mark J. Stewart, October 30, 2025
2417	Petition for Inter Partes Review, Merck Sharp & Dohme LLC v. The Johns Hopkins University, IPR2024-00240 (P.T.A.B.), November 30, 2023
2418	Petition for Inter Partes Review, Merck Sharp & Dohme LLC v. The Johns Hopkins University, IPR2024-00622 (P.T.A.B.), March 4, 2024
2419	Petition for Inter Partes Review, Merck Sharp & Dohme LLC v. The Johns Hopkins University, IPR2024-00623 (P.T.A.B.), March 4, 2024
2420	Petition for Inter Partes Review, Merck Sharp & Dohme LLC v. The Johns Hopkins University, IPR2024-00624 (P.T.A.B.), March 4, 2024
2421	Petition for Inter Partes Review, Merck Sharp & Dohme LLC v. The Johns Hopkins University, IPR2024-00625 (P.T.A.B.), March 4, 2024
2422	Petition for Inter Partes Review, Merck Sharp & Dohme LLC v. The Johns Hopkins University, IPR2024-00647 (P.T.A.B.), March 13, 2024

<b>Exhibit No.</b>	<b>Description</b>
<b>2423</b>	Petition for Inter Partes Review, Merck Sharp & Dohme LLC v. The Johns Hopkins University, IPR2024-00648 (P.T.A.B.), March 13, 2024
<b>2424</b>	Petition for Inter Partes Review, Merck Sharp & Dohme LLC v. The Johns Hopkins University, IPR2024-00649 (P.T.A.B.), March 13, 2024
<b>2425</b>	Petition for Inter Partes Review, Merck Sharp & Dohme LLC v. The Johns Hopkins University, IPR2024-00650 (P.T.A.B.), March 13, 2024
<b>2426</b>	MERCK_PGR00035 - 20250813 Payment Remittance_Redacted (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)
<b>2427</b>	MERCK_PGR00042 - Dechert T360 Halozyme - 202500327_Redacted (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)
<b>2428</b>	MERCK_PGR00045 - FW_ Attn_ Accounts Receivable Dept - PAYMENT REMITTANCE DETAIL (Nov 2025)_Redacted (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)
<b>2429</b>	MERCK_PGR00049 - Halozyme - 202000447 - Invoices 5_1_2024-12_22_2025_1 of 3_Redacted (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)
<b>2430</b>	MERCK_PGR00465 - Mark Stewart Payroll Statement for Dec 12 2025_Redacted (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)
<b>2431</b>	MERCK_PGR00001 - Workday - Ginkel Organization Screen Shot (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)
<b>2432</b>	MERCK_PGR00002 - Workday - Lally Organization Screen Shot (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)

<b>Exhibit No.</b>	<b>Description</b>
2433	MERCK_PGR00003 - Workday - Majchrzak Organization Screen Shot (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)
2434	MERCK_PGR00004 - Workday - Stewart Organization Screen Shot (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)
2435	MERCK_PGR00005 - Workday - Su Organization Screen Shot (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)
2436	MERCK_PGR00036 - 20250903 Payment Remittance_Redacted (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)
2437	MERCK_PGR00037 - 20251001 Payment Remittance_Redacted (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)
2438	MERCK_PGR00038 - 20251203 Payment Remittance_Redacted (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)
2439	MERCK_PGR00040 - 20251215 Payment Remittance_Redacted (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)
2440	MERCK_PGR00046 - FW_Atn_Accounts Receivable Dept - PAYMENT REMITTANCE DETAIL (Oct 2025)_Redacted (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)
2441	MERCK_PGR00047 - FW_Atn_Accounts Receivable Dept - PAYMENT REMITTANCE DETAIL (Sept 2025)_Redacted (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)
2442	MERCK_PGR00048 - Halozyme - 202000447 - Invoice IN00125072310 Review History (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)
2443	MERCK_PGR00050 - Halozyme - 202000447 – Invoices 5_1_2024-12_22_2025_2 of 3_Redacted (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)

<b>Exhibit No.</b>	<b>Description</b>
2444	MERCK_PGR00051 - Halozyme - 202000447 - Invoices 5_1_2024-12_22_2025_3 of 3_Redacted (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)
2445	By-Laws of Merck & Co., Inc., Effective as of November 19, 2024
2446	U.S. Supreme Court Amicus Curiae Brief by the Intellectual Property Owners Association, <i>Jack Daniel’s Properties, Inc. v. VIP Products LLC</i> , Case No. 22-148
2447	Board of Directors – Intellectual Property Owners Association, accessible at <a href="https://ipo.org/index.php/board-of-directors">https://ipo.org/index.php/board-of-directors</a> (last accessed February 15, 2026)
2448	ChIPs Speaker Bio Information
2449	LinkedIn Profile Page
2450	Form PTO-158, Office of Enrollment and Discipline, United States Patent & Trademark Office
2451	Jennifer Zachary’s March 16, 2018 Job Offer Letter
2452	Form 13F Cover Page, Merck & Co., Inc., September 2025
2453	Form 13F Cover Page, Merck Sharp & Dohme LLC, September 2025
2454	Form 10-Q, Merck & Co. Inc., Quarterly Report for Quarter Ended June 30, 2025
2455	<i>Intentionally Left Blank</i>
2456	Exhibit 24.1 to Merck & Co. Inc.’s Form 10-K for the Fiscal Year Ended December 31, 2024
2457	Sarbanes-Oxley Act of 2002
2458	Jennifer Zachary Biography, Merck.com

<b>Exhibit No.</b>	<b>Description</b>
<b>2459</b>	Rules of Professional Conduct of the New Jersey Bar
<b>2460</b>	Jennifer Zachary Biography, MSD.com
<b>2461</b>	USPTO Office of Enrollment and Discipline Practitioner Search for Mark J. Stewart, February 13, 2026
<b>2462</b>	Schedule 13D, Harpoon Therapeutics, Inc., January 17, 2024
<b>2463</b>	Schedule 14A Proxy Statement, Merck & Co., Inc., 2025
<b>2464</b>	Form 13F, Information Required of Institutional Investment Managers Pursuant to Section 13(f) of the Securities Exchange Act of 1934 and Rules Thereunder, accessible at <a href="https://www.sec.gov/pdf/form13f.pdf">https://www.sec.gov/pdf/form13f.pdf</a> (last accessed February 15, 2026)
<b>2465</b>	USPTO Office of Enrollment and Discipline Practitioner Search for “Merck,” February 15, 2026
<b>2466</b>	Form 8-K, Merck & Co. Inc., February 3, 2026
<b>2467</b>	Exhibit 99.1 to Form 8-K, Merck & Co. Inc., February 3, 2026
<b>2468</b>	Exhibit 99.2 to Form 8-K, Merck & Co. Inc., February 3, 2026

Respectfully submitted,

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Date: February 20, 2026

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**CERTIFICATE OF SERVICE (37 C.F.R. § 42.6(e))**

I certify that the above-captioned **PATENT OWNER'S UPDATED EXHIBIT LIST** and the public, redacted version of Exhibit 2401 were served in their entireties on February 20, 2026, upon the following parties via electronic mail:

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