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BEFORE THE PATENT TRIAL AND APPEAL BOARD

MERCK, SHARP & DOHME LLC,
Petitioner

v.

HALOZYME, INC.,
Patent Owner

Case PGR2025-00009
U.S. Patent No. 12,123,035

PATENT OWNER'S UPDATED EXHIBIT LIST

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Patent Owner submits this Updated Exhibit List to accompany filing of Exhibits 2500 and 2501, the Patent Owner's demonstratives for oral argument on the merits and on the real party-in-interest issue.

PATENT OWNER'S UPDATED EXHIBIT LIST

Exhibit No.	Description
2001	Declaration of Barbara Triggs-Raine, Ph.D. in support of Patent Owner Preliminary Response (WITHDRAWN)
2002	<i>Curriculum Vitae</i> of Barbara Triggs-Raine, Ph.D.
2003	Disclaimer in a Patent under 37 C.F.R. § 1.321(a), filed in U.S. Patent Application No. 18/068,327, April 8, 2025
2004	"Halozyme Therapeutics to Present Data on PEGPH20 at the Upcoming 2011 EORTC-NCIASCO Annual Meeting," Halozyme Therapeutics, Inc. Press Release, October 24, 2011
2005	LinkedIn profiles of Michael Shepard, Robert Connor, Ge (Gina) Wei, and Qiping Zhao
2006	Sequence listing of U.S. Patent Application No. 18/068,327
2007	Gifre, L., et al., "Trends in recombinant protein use in animal production," <i>Microb Cell Fact</i> 16:40 (2017)
2008	"Recombinant Drugs," Smithsonian Institution, accessible at https://www.si.edu/spotlight/birth-of-biotech/recombinant-drugs (last accessed February 27, 2025)
2009	Naz, R., "Antisperm Contraceptive Vaccines: Where We Are and Where We Are Going?," <i>American Journal of Reproductive Immunology</i> 66:5-12 (2011)

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2010	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)
2011	Definition of “guinea pig,” Merriam-Webster OnLine, archived by the Internet Archive on February 21, 2010, accessible at https://web.archive.org/web/20100221175034/http://www.merriam-webster.com/dictionary/guinea%20pig (last accessed February 27, 2025)
2012	“A decade in numbers,” <i>Nature Materials</i> 11:743-744 (September 2012)
2013	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)
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2015	File History of U.S. Patent No. 7,872,107
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2019	Atmuri, V., <i>et al.</i> , “Hyaluronidase 3 (<i>HYAL3</i>) knockout mice do not display evidence of hyaluronan accumulation,” <i>Matrix Biology</i> 27:653-660 (2008)

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2020	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)
2021	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)
2022	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)
2023	Petition for Post-Grant Review, <i>Merck Sharp & Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00004 (P.T.A.B.), November 26, 2024
2024	Petition for Post-Grant Review, <i>Merck Sharp & Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00006 (P.T.A.B.), December 10, 2024
2025	Petition for Post-Grant Review, <i>Merck Sharp & Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00003 (P.T.A.B.), November 12, 2024
2026	Petition for Post-Grant Review, <i>Merck Sharp & Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00017 (P.T.A.B.), January 17, 2025
2027	Petition for Post-Grant Review, <i>Merck Sharp & Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00030 (P.T.A.B.), February 4, 2025
2028	Petition for Post-Grant Review, <i>Merck Sharp & Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00024 (P.T.A.B.), February 21, 2025

Exhibit No.	Description
2029	Declaration of Michael Hecht, Ph.D. (Exhibit 1003), <i>Merck Sharp & Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00004 (P.T.A.B.), November 26, 2024
2030	Declaration of Michael Hecht, Ph.D. (Exhibit 1003), <i>Merck Sharp & Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00006 (P.T.A.B.), December 10, 2024
2031	Declaration of Michael Hecht, Ph.D. (Exhibit 1003), <i>Merck Sharp & Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00003 (P.T.A.B.), November 12, 2024
2032	Declaration of Michael Hecht, Ph.D. (Exhibit 1003), <i>Merck Sharp & Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00017 (P.T.A.B.), January 17, 2025
2033	Declaration of Michael Hecht, Ph.D. (Exhibit 1003), <i>Merck Sharp & Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00030 (P.T.A.B.), February 4, 2025
2034	Declaration of Michael Hecht, Ph.D. (Exhibit 1003), <i>Merck Sharp & Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00024 (P.T.A.B.), February 21, 2025
2035	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)
2036	Declaration of Michael Hecht, Ph.D. (Exhibit 1003), <i>Merck Sharp & Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00033 (P.T.A.B.), March 7, 2025
2037	Petition for Post-Grant Review, <i>Merck Sharp & Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00033 (P.T.A.B.), March 7, 2025

Exhibit No.	Description
2038	Declaration of Michael Hecht, Ph.D. (Exhibit 1003), <i>Merck Sharp & Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00039 (P.T.A.B.), March 28, 2025
2039	Petition for Post-Grant Review, <i>Merck Sharp & Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00039 (P.T.A.B.), March 28, 2025
2040	Wilson, C., <i>et al.</i> , “A critical assessment of the secondary structure prediction of α -helices and their termini in proteins,” <i>Protein Engineering</i> , 15(7):545-554 (2002)
2041	Doig, A., “Stability and Design of α -Helical Peptides,” <i>Progress in Molecular Biology and Translational Science</i> , 83:1-52 (2008)
2042	Cochran D., <i>et al.</i> , “Effect of the N1 residue on the stability of the α -helix for all 20 amino acids,” <i>Protein Science</i> , 10:463-470 (2001)
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2046	“2023 Pharma 50: The 50 largest pharma companies in the world,” drugdiscoverytrends.com, accessible at https://www.drugdiscoverytrends.com/2023-pharma-50-largest-companies/ (last accessed April 28, 2025)
2047	“Merck Announces Fourth-Quarter and Full-Year 2024 Financial Results,” Merck Press Release, February 4, 2025
2048	“Products list,” Merck.com, accessible at https://www.merck.com/products/ (last accessed April 22, 2025)
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2051	“Halozyme Therapeutics, Inc. Common Stock (HALO),” Nasdaq.com, accessible at https://www.nasdaq.com/market-activity/stocks/halo (last accessed April 28, 2025)
2052	“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 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 (last accessed April 28, 2025)
2053	“Commercial Products,” Halozyme.com, accessible at https://halozyme.com/commercial-products/ (last accessed April 28, 2025)
2054	“About Us,” Halozyme.com, accessible at https://halozyme.com/about-us/#our-focus (last accessed April 28, 2025)
2055	Declaration of Barbara Triggs-Raine, Ph.D. in support of Patent Owner Discretionary Denial Brief (WITHDRAWN)
2056	Petition for Post-Grant Review, <i>Merck Sharp & Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00042 (P.T.A.B.), April 15, 2025
2057	Declaration of Michael Hecht, Ph.D. (Exhibit 1003), <i>Merck Sharp & Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00042 (P.T.A.B.), April 15, 2025

Exhibit No.	Description
2058	Complaint for Patent Infringement and Declaratory Judgment of Patent Infringement, <i>Halozyme, Inc. v. Merck Sharp & Dohme Corp.</i> , Civil Action No. 2:25-cv-03179-ES (D.N.J.), filed April 24, 2025
2059	“Alteogen announces amendment to license agreement with MSD,” Alteogen Press Release, February 22, 2025, accessible at https://www.alteogen.com/en/ir_1/?uid=2223&mod=document&pageid=1 (last accessed April 28, 2025)
2060	Declaration of Tyler C. Liu (<i>served not filed</i>)
2061	<i>Intentionally Left Blank</i>
2062	Petition for Post-Grant Review, <i>Merck Sharp & Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00046 (P.T.A.B.), April 29, 2025
2063	Petition for Post-Grant Review, <i>Merck Sharp & Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00053 (P.T.A.B.), June 6, 2025
2064	Petition for Post-Grant Review, <i>Merck Sharp & Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00052 (P.T.A.B.), June 27, 2025
2065	Declaration of Michael Hecht, Ph.D. (Exhibit 1003), <i>Merck Sharp & Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00046 (P.T.A.B.), April 29, 2025
2066	Declaration of Michael Hecht, Ph.D. (Exhibit 1003), <i>Merck Sharp & Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00053 (P.T.A.B.), June 6, 2025
2067	Declaration of Michael Hecht, Ph.D. (Exhibit 1003), <i>Merck Sharp & Dohme LLC v. Halozyme Inc.</i> , Case No. PGR2025-00052 (P.T.A.B.), June 27, 2025
2068	Declaration of Melanie A. Simpson, Ph.D. in Support of Patent Owner’s Response

Exhibit No.	Description
2069	<i>Curriculum Vitae</i> of Melanie A. Simpson, Ph.D.
2070	Declaration of Gregory A. Petsko, Ph.D. in Support of Patent Owner's Response
2071	<i>Curriculum Vitae</i> of Gregory A. Petsko, Ph.D.
2072	Declaration of Gary N. Cherr, Ph.D. in Support of Patent Owner's Response
2073	<i>Curriculum Vitae</i> of Gary N. Cherr, Ph.D.
2074	Declaration of James J. Moon, Ph.D. in Support of Patent Owner's Response
2075	<i>Curriculum Vitae</i> of James J. Moon, Ph.D.
2076	Transcript of the Deposition of Michael Hecht, Ph.D., August 26, 2025
2077	Transcript of the Deposition of Dr. Sheldon Park, August 7, 2025
2078	Transcript of the Deposition of Dr. Sheldon Park, August 21, 2025
2079	Koehl, P. et al., "Structure-based conformational preferences of amino acids," <i>PNAS</i> , 96(22):12524-12529 (October 26, 1999)
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2085	French, S. et al., “What is a Conservative Substitution?”, <i>Journal of Molecular Evolution</i> , 19:171-175 (1983)
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2088	Stern, R. et al., “Mammalian Hyaluronidases,” Hyaluronan Index (2000)
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2092	Marković-Housley, Z. et al., “Crystal Structure of Hyaluronidase, a Major Allergen of Bee Venom,” <i>Structure</i> , 8:1025-1035 (October 2000)
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2098	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)
2099	Takahashi, T. et al., “A fluorimetric Morgan-Elson assay method for hyaluronidase activity,” <i>Analytical Biochemistry</i> , 322:257-263 (2003)
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2101	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)
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2103	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)
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2110	Tollner, T. et al., “Release of DEFB126 From Macaque Sperm and Completion of Capacitation Are Triggered by Conditions That Simulate Periovulatory Oviductal Fluid,” <i>Molecular Reproduction & Development</i> , 76:431-443 (2009)
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2112	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)
2113	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

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2116	Chamley, L. et al., “Antisperm antibodies and conception,” <i>Seminars in Immunopathology</i> , 29:169-184 (2007)
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2118	Primakoff, P. et al., “A Map of the Guinea Pig Sperm Surface Constructed with Monoclonal Antibodies,” <i>Developmental Biology</i> , 98:417-428 (1983)
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2121	Ganesan, R. et al., “Structural and mechanistic insight into how antibodies inhibit serine proteases,” <i>Biochemistry Journal</i> , 430:179-189 (2010)
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Exhibit No.	Description
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2130	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)
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2134	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)
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2141	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)
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2158	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)
2159	Zeitlin, L. et al., “Topically Applied Human Recombinant Monoclonal IgG1 Antibody and Its Fab and F(ab') ₂ Fragments Protect Mice from Vaginal Transmission of HSV-2,” <i>Virology</i> , 225:213-215 (1996)
2160	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)
2161	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)
2162	Schweitzer, M. et al., “Microscopic, chemical and molecular methods for examining fossil preservation,” <i>Comptes Rendus Palevol</i> , 7:159-184 (2008)

Exhibit No.	Description
2163	National Medal of Science in Medicine Citation for Gregory Petsko, 2022 (accessible at https://nationalmedals.org/laureate/gregory-petsko/?amp=1 , last accessed September 19, 2025)
2164	Petsko, G., et al., <i>Protein Structure and Function</i> , New Science Press (2004)
2165	U.S. Patent Application Publication No. 2010/0143457 A1 to Wei et al., published June 10, 2010
2166	Petsko Patent Analysis Data
2167	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)
2168	Profile of Gregory A. Petsko, American Academy of Arts and Sciences (accessible at https://www.amacad.org/person/gregory-petsko , last accessed September 22, 2025)
2169	“BLAST Topics,” National Institutes of Health (accessible at https://blast.ncbi.nlm.nih.gov/doc/blast-topics , last accessed September 22, 2025)
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)

Exhibit No.	Description
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	S312G Swiss Model
2183	S312K Swiss Model
2184	S312L Swiss Model
2185	S312N Swiss Model
2186	N47_N219A_S312T Swiss Model
2187	N47A_N131A_S312T Swiss Model
2188	N47A_N313A_N219A_S312T Swiss Model
2189	N131A_N219A_S312T Swiss Model

Exhibit No.	Description
2190	Orangutan S312T Swiss Model
2191	PH20 Swiss Model
2192	S312T Swiss Model
2193	Chimpanzee S312N Swiss Model
2194	Gibbon S312N Swiss Model
2195	Chimpanzee S312T Swiss Model
2196	Gibbon S312T Swiss Model
2197	N47A_N219A_S312N Swiss Model
2198	N47A_N131A_S312N Swiss Model
2199	N47A_N131A_N219A_S312N Swiss Model
2200	N131A_N219A_S312N Swiss Model
2201	Orangutan S312N Swiss Model
2202-2213	<i>Intentionally Left Blank</i>
2214	Declaration of Zachariah Summers in Support of <i>Pro Hac Vice</i> Admission
2215	Khurana, et al., “MF59 Adjuvant Enhances Diversity and Affinity of Antibody-Mediated Immune Response to Pandemic Influenza Vaccines,” Sci Transl Med. 3(85) (June 2011)
2216-2299	<i>Intentionally Left Blank</i>
2300	Errata sheet for Declaration of James Naismith, Ph.D.
2301	Transcript of the Deposition of James Naismith, Ph.D., February 6, 2026

Exhibit No.	Description
2302	Transcript of the Deposition of Garnett H. Kelsoe, Ph.D., February 5, 2026
2303-2399	<i>Intentionally Left Blank</i>
2400	Merck & Co., Inc. Form 10-Q, Securities and Exchange Commission, November 5, 2025
2401	E-mail Correspondence between Counsel for Petitioner and Patent Owner, January 6, 2026 (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)
2402	MERCK_PGR00006 - 30November2023 Merck 031988 Master Agreement - executed 4932-6153-3216 1_Redacted (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)
2403	MERCK_PGR00056 - MSA - Term 4 - Dechert LLP_Signed_Redacted (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)
2404	MERCK_PGR00467 - Mark Stewart Offer Letter_Redacted (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)
2405	MERCK_PGR00052 - Hecht Engagement Letter (7-19)_Signed (Redacted)_Redacted (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)
2406	MERCK_PGR00086 - Park Engagement Letter with signature - sjp (redacted)_Redacted (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)
2407	“Executive team,” MSD, accessible at http://www.msd.com/company-overview/leadership/executive-team/ (last accessed January 5, 2026)
2408	“Executive team,” Merck, accessible at http://www.merck.com/company-overview/leadership/executive-team/ (last accessed January 5, 2026)

Exhibit No.	Description
2409	“Board of directors,” MSD, accessible at http://www.msd.com/company-overview/leadership/board-of-directors/ (last accessed January 5, 2026)
2410	“Board of directors,” Merck, accessible at http://www.merck.com/company-overview/leadership/ board-of-directors/ (last accessed January 5, 2026)
2411	“Contact us,” MSD, accessible at http://www.msd.com/contact-us/ (last accessed January 5, 2026)
2412	“Contact us,” Merck, accessible at http://www.merck.com/contact-us/ (last accessed January 5, 2026)
2413	“Who we are,” MSD, accessible at http://www.msd.com/company-overview/ (last accessed January 5, 2026)
2414	“Who we are,” Merck, accessible at http://www.merck.com/company-overview/ (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 <i>Inter Partes</i> Review, <i>Merck Sharp & Dohme LLC v. The Johns Hopkins University</i> , IPR2024-00240 (P.T.A.B.), November 30, 2023
2418	Petition for <i>Inter Partes</i> Review, <i>Merck Sharp & Dohme LLC v. The Johns Hopkins University</i> , IPR2024-00622 (P.T.A.B.), March 4, 2024
2419	Petition for <i>Inter Partes</i> Review, <i>Merck Sharp & Dohme LLC v. The Johns Hopkins University</i> , IPR2024-00623 (P.T.A.B.), March 4, 2024

Exhibit No.	Description
2420	Petition for <i>Inter Partes</i> Review, <i>Merck Sharp & Dohme LLC v. The Johns Hopkins University</i> , IPR2024-00624 (P.T.A.B.), March 4, 2024
2421	Petition for <i>Inter Partes</i> Review, <i>Merck Sharp & Dohme LLC v. The Johns Hopkins University</i> , IPR2024-00625 (P.T.A.B.), March 4, 2024
2422	Petition for <i>Inter Partes</i> Review, <i>Merck Sharp & Dohme LLC v. The Johns Hopkins University</i> , IPR2024-00647 (P.T.A.B.), March 13, 2024
2423	Petition for <i>Inter Partes</i> Review, <i>Merck Sharp & Dohme LLC v. The Johns Hopkins University</i> , IPR2024-00648 (P.T.A.B.), March 13, 2024
2424	Petition for <i>Inter Partes</i> Review, <i>Merck Sharp & Dohme LLC v. The Johns Hopkins University</i> , IPR2024-00649 (P.T.A.B.), March 13, 2024
2425	Petition for <i>Inter Partes</i> Review, <i>Merck Sharp & Dohme LLC v. The Johns Hopkins University</i> , IPR2024-00650 (P.T.A.B.), March 13, 2024
2426	MERCK_PGR00035 - 20250813 Payment Remittance_Redacted (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)
2427	MERCK_PGR00042 - Dechert T360 Halozyme - 202500327_Redacted (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)
2428	MERCK_PGR00045 - FW_Atnn_Accounts Receivable Dept - PAYMENT REMITTANCE DETAIL (Nov 2025)_Redacted (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)
2429	MERCK_PGR00049 - Halozyme - 202000447 - Invoices 5_1_2024-12_22_2025_1 of 3_Redacted (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)

Exhibit No.	Description
2430	MERCK_PGR00465 - Mark Stewart Payroll Statement for Dec 12 2025_Redacted (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)
2431	MERCK_PGR00001 - Workday - Ginkel Organization Screen Shot (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)
2432	MERCK_PGR00002 - Workday - Lally Organization Screen Shot (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)
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_Attn_Accounts Receivable Dept - PAYMENT REMITTANCE DETAIL (Oct 2025)_Redacted (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)
2441	MERCK_PGR00047 - FW_Attn_Accounts Receivable Dept - PAYMENT REMITTANCE DETAIL (Sept 2025)_Redacted (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)

Exhibit No.	Description
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)
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 https://ipo.org/index.php/board-of-directors (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

Exhibit No.	Description
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
2459	Rules of Professional Conduct of the New Jersey Bar
2460	Jennifer Zachary Biography, MSD.com
2461	USPTO Office of Enrollment and Discipline Practitioner Search for Mark J. Stewart, February 13, 2026
2462	Schedule 13D, Harpoon Therapeutics, Inc., January 17, 2024
2463	Schedule 14A Proxy Statement, Merck & Co., Inc., 2025
2464	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 https://www.sec.gov/pdf/form13f.pdf (last accessed February 15, 2026)
2465	USPTO Office of Enrollment and Discipline Practitioner Search for "Merck," February 15, 2026
2466	Form 8-K, Merck & Co. Inc., February 3, 2026
2467	Exhibit 99.1 to Form 8-K, Merck & Co. Inc., February 3, 2026
2468	Exhibit 99.2 to Form 8-K, Merck & Co. Inc., February 3, 2026
2469-2499	<i>Intentionally Left Blank</i>
2500	Patent Owner's Demonstratives for Oral Argument on the Merits

Exhibit No.	Description
2501	Patent Owner's Demonstratives for Oral Argument on the Real Party-in-Interest Issue (CONFIDENTIAL – PROTECTIVE ORDER MATERIAL)

Respectfully submitted,

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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 Exhibits 2500-2501 were served in their entireties on February 27, 2026, upon the following parties via electronic mail:

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