

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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TWI PHARMACEUTICALS INC.,

*Petitioner,*

v.

MERCK SERONO SA,

*Patent Owner.*

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IPR2023-00050 (Patent 8,377,903 B2)

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Before ULRIKE W. JENKS, ZHENYU YANG and TINA HULSE,  
*Administrative Patent Judges.*

JENKS, *Administrative Patent Judge.*

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**PETITIONER'S OPPOSITION TO MOTION TO SEAL**

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## EXHIBIT LIST

EXHIBIT	DESCRIPTION	SHORT
Ex. 1001	US 7,713,947 B2.	'947 Patent
Ex. 1002	US 8,377,903 B2.	'903 Patent
Ex. 1003	File History for Ser. No. 11/722,018, which issued as the '947 patent.	'018 File Wrapper
Ex. 1004	File History Ser. No. 12/766,173, which issued as the '903 patent.	'173 File Wrapper
Ex. 1005	Declaration of Dr. Benjamin M. Greenberg, M.D.	Greenberg Decl.
Ex. 1006	<i>Curriculum Vitae</i> of Dr. Benjamin M. Greenberg, M.D.	Greenberg CV
Ex. 1007	WO 2004/087101 A2.	Bodor 'WO 101
Ex. 1008	Rice, George P.A., Massimo Filippi, and Giancarlo Comi. "Cladribine and progressive MS: clinical and MRI outcomes of a multicenter controlled trial." <i>Neurology</i> Vol. 54, no. 5 (2000) pp. 1145–1155.	Rice 2000 or Rice
Ex. 1009	Liliemark, Jan. "The clinical pharmacokinetics of cladribine." <i>Clinical pharmacokinetics</i> Vol. 32, no. 2 (1997) pp. 120–131.	Liliemark 1997
Ex. 1010	<i>Merck KGaA et al v. Accord Healthcare, Inc. et al</i> 1-22-cv-00974 (DDE) Complaint.	Merck Complaint
Ex. 1011	EMD Serano Inc., Mavenclad® (Cladribine) Package Insert, Mar. 2019	Mavenclad Package Insert
Ex. 1012	Lublin FD, Reingold SC. Defining the clinical course of multiple sclerosis: results of an international survey. <i>Neurology</i> 1996;46:907–911.	Lublin 1996
Ex. 1013	National Multiple Sclerosis Society, <i>What is MS, Types of MS</i> , <a href="https://www.nationalmssociety.org/What-is-MS/Types-of-MS">https://www.nationalmssociety.org/What-is-MS/Types-of-MS</a> , retrieved Sept. 20, 2022.	
Ex. 1014	National Multiple Sclerosis Society, <i>What is MS, Types of MS, Secondary Progressive MS</i> , <a href="https://www.nationalmssociety.org/What-is-">https://www.nationalmssociety.org/What-is-</a>	

EXHIBIT	DESCRIPTION	SHORT
	MS/Types-of-MS/Secondary-progressive-MS.	
Ex. 1015	Casanova, B., et al. "High clinical inflammatory activity prior to the development of secondary progression: a prospective 5-year follow-up study," <i>Multiple Sclerosis Journal</i> , Feb. 2002, pp. 59-63, vol. 8.	Casanova 2002
Ex. 1016	Romine, J. et al. "A Double-Blind, Placebo-Controlled, Randomized Trial of Cladribine in Relapsing-Remitting Multiple Sclerosis," <i>Proceedings of the Association of American Physicians</i> , Jan./Feb. 1999, pp. 35-44, vol. 111, No. 1.	Romine 1999
Ex. 1017	Immunex Corporation, Novantrone <sup>®</sup> (Moxantrone) Package Insert, Oct. 13, 2000 ("Novantrone <sup>®</sup> Package Insert").	Novantrone Package Insert
Ex. 1018	Langtry, H. et al. "Cladribine: A Review of its Use in Multiple Sclerosis," <i>Biodrugs</i> , May 1998, pp. 419-433, vol. 9, No. 3.	Langtry 1998
Ex. 1019	Biogen Idec Inc., Tysabri <sup>®</sup> (natalizumab) Package Insert, Nov. 2004.	Tysabri Package Insert
Ex. 1020	Chiron Corporation, Betaseron <sup>®</sup> (Interferon beta-1b) Package Insert, 1993.	Betaseron Package Insert
Ex. 1021	Biogen, Inc., Avonex <sup>™</sup> (Interferon Beta-1a) Package Insert, Nov. 1996.	Avonex Package Insert
Ex. 1022	Teva Pharms USA, Copaxone <sup>®</sup> (glatiramer acetate for injection) Package Insert, 2001.	Copaxone Package Insert
Ex. 1023	Serano, Inc., Rebif <sup>®</sup> (Interferon Beta-1a) Package Insert, May 2003.	Rebif Package Insert
Ex. 1024	Cursiefen, Simone, <i>et al.</i> "Escalating immunotherapy with mitoxantrone in patients with very active relapsing-remitting or progressive multiple sclerosis," <i>European neurology</i> , Apr. 2000, pp. 186-187, vol. 43, No. 3.	Cursiefen 2000
Ex. 1025	Burt, Richard K., <i>et al.</i> "Treatment of autoimmune disease by intense immunosuppressive conditioning and autologous hematopoietic stem cell transplantation," <i>Blood, The Journal of the American Society of Hematology</i> , Nov. 1998, pp. 3505-3514, vol. 92, No. 10.	Burt 1998

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