

Petition for *Inter Partes Review* of
U.S. Patent No. 9,593,066 B2

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

LIQUIDIA TECHNOLOGIES, INC.,

Petitioner

v.

UNITED THERAPEUTICS CORPORATION,

Patent Owner

U.S. Patent No. 9,593,066

Issue Date: March 14, 2017

Title: Process to Prepare Treprostinil, the Active Ingredient in Remodulin®

PETITION FOR *INTER PARTES* REVIEW

OF U.S. Patent No. 9,593,066

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EXHIBITS

Exhibit No.	Description of Document
1001	U.S. Patent No. 9,593,066 to Batra, et al. (the “’066 patent”)
1002	Declaration of Jeffrey D. Winkler, Ph.D. (“Winkler Decl.”)
1003	<i>Curriculum Vitae</i> of Dr. Jeffrey D. Winkler
1004	U.S. Patent No. 8,497,393 to Batra, et al. (the “’393 patent”)
1005	<i>SteadyMed Ltd. v. United Therapeutics Corp.</i> , IPR2016-00006, Paper 82 (PTAB March 31, 2017) (“IPR2016-00006”)
1006	Prosecution History of the ’066 patent
1007	U.S. Patent No. 6,765,117 to Moriarty, et al. (the “’117 patent”)
1008	PCT Application No. WO 2005/007081 (“Phares”)
1009	Moriarty, R.M., et al., “The Intramolecular Asymmetric Pauson-Khand Cyclization as a Novel and General Stereoselective Route to Benzindene Prostacyclins: Synthesis of UT-15 (Treprostinil),” <i>J. Org. Chem.</i> Vol. 69, No. 6, 1890-1902 (2004) (“Moriarty”)
1010	Wiberg, K., <i>Laboratory Technique in Organic Chemistry</i> (1960), p.112 (“Wiberg”)
1011	Schoffstall, A.M. et al., <i>Microscale and Miniscale Organic Chemistry Laboratory Experiments</i> , 2d ed. (2004) pp. 200-202 (“Schoffstall”)
1012	Certified English translation of Japanese Patent App. No. 56-122328A to Kawakami, et al. (“Kawakami”)
1013	Ege, S., <i>Organic Chemistry Second Edition</i> , Ch. 14 Carboxylic Acids and Their Derivates I. Nucleophilic Substitution Reactions at the Carbonyl Group (1989) pp. 543-547 (“Ege”)
1014	U.S. Patent No. 4,306,075 to Aristoff (the “’075 patent”)
1015	Declaration of Sylvia Hall-Ellis, Ph.D.
1016	Prosecution History of the ’393 patent

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