

PATENT ASSIGNMENT AGREEMENT

THIS PATENT ASSIGNMENT AGREEMENT (this "Assignment") is made effective as of April 1, 2019, by and between

IRONWOOD PHARMACEUTICALS, INC., a corporation duly organized under the laws of the State of Delaware and having its principal place of business at 301 Binney Street, Cambridge, Massachusetts 02142, United States of America (hereinafter referred to as "**ASSIGNOR**"); and

CYCLERION THERAPEUTICS, INC., a corporation duly organized under the laws of the Commonwealth of Massachusetts and having its principal place of business at 301 Binney Street, Cambridge, Massachusetts 02142, United States of America (hereinafter referred to as "**ASSIGNEE**").

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, **ASSIGNOR** has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto **ASSIGNEE**, its successors and assigns, the full and exclusive right, title and interest in the Letters Patents and Patent Applications listed in the attached Schedule 1, including (a) all Letters Patents which may issue from said applications, (b) all rights of priority under the International Convention for the Protection of Industrial Property and any other applicable international agreements, treaties and conventions, and (c) any divisional, continuing, reissue, reexamination, substitution or other applications based in whole or in part thereon.

And **ASSIGNOR** agrees, for itself and its executors and administrators, with **ASSIGNEE** and its successors and assigns but at **ASSIGNEE's** expense and charges, hereafter to execute all applications, amended specifications, deed or other instrument, and to do all acts necessary or proper to secure and/or maintain the grant of Letters Patents in the United States and in all other countries to **ASSIGNEE**, with specifications and claims in such form as shall be approved by the counsel of **ASSIGNEE** and to vest and confirm in **ASSIGNEE**, its successors and assigns, the legal title to all such patents.

And **ASSIGNOR** hereby conveys to **ASSIGNEE** all rights arising under or pursuant to any and all United States and foreign laws and international agreements, treaties or laws relating to the protection of industrial property for such Applications and for such Letters Patents, including but not limited to any cause(s) of action and damages accruing prior to this **Assignment**.

And **ASSIGNOR** does hereby acknowledge that this **Assignment**, being of its entire right, title and interest in and to said inventions or improvements, carries with it the right for **ASSIGNEE** to apply for and obtain from competent authorities in all countries of the world any and all Letters Patents and the right to procure the grant of all Letters Patents to **ASSIGNEE** in its own name.

And **ASSIGNOR** does hereby authorize and request the Commissioner of Patents and Trademarks of the United States and the corresponding authorities in other countries to issue such Letters Patents as shall be granted upon said Patent Applications based thereon to **ASSIGNEE**, its successors and assigns.

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that **ASSIGNOR** has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that **ASSIGNOR** has not executed and will not execute any document or instrument in conflict herewith.

ASSIGNEE expressly accepts this assignment and transfer of patent rights made on its behalf and is now the owner of the involved Letters Patents and Patent Applications listed in the attached **Schedule 1**, with all rights, titles, and interests deriving from them.

This **Assignment** may be executed in two or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument, and may be executed through the use of facsimiles or .pdf documents.

ASSIGNOR HEREBY GRANTS to the law firm of **McCarter & English, LLP** the power and authority to insert in this **Assignment** any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office and the corresponding authorities in other countries for recordation of this **Assignment**.

IN TESTIMONY WHEREOF, we have hereunto set our hands-and affixed our seals on the date(s) set forth below.

IRONWOOD PHARMACEUTICALS, INC.

Halley E. Gilbert

Name: Halley E. Gilbert

Title: Chief Administrative Officer and Senior Vice
President of Corporate Development

Nationality: US

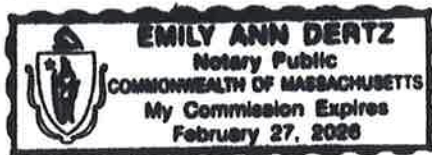
By my signature above, I, Halley E. Gilbert, as a lawful representative of
ASSIGNOR, affirm that I am authorized to execute certain documents, including the present
Assignment, on behalf of ASSIGNOR.

United States of America)
Commonwealth of Massachusetts)
County of Middlesex)

On this 1st day of April, 2019, before me,
the undersigned notary public, personally appeared Halley E. Gilbert
(name of document signer), proved to me through satisfactory evidence of identification,
which was personal knowledge, to be the person whose name
is signed on the preceding or attached document in my presence, and acknowledged to me that
he/she signed it voluntarily for its stated purpose as Chief Administrative Officer and
Senior Vice President of Corporate Development (capacity) of
IRONWOOD PHARMACEUTICALS, INC., a corporation or other entity.

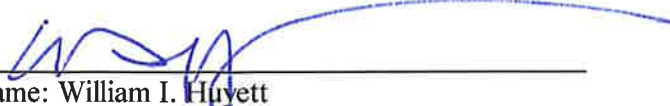
Emily Dertz (official signature and seal of notary)

My commission expires February 27, 2026.



ASSIGNEE herewith accepts this assignment and transfer.

CYCLERION THERAPEUTICS, INC.



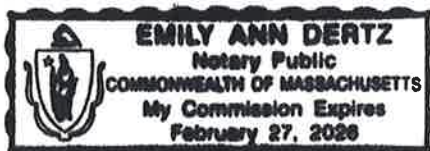
Name: William I. Huyett
Title: Chief Financial Officer
Nationality: US

By my signature above, I, William I. Huyett, as a lawful representative of ASSIGNEE, affirm that I am authorized to execute certain documents, including the present Assignment, on behalf of ASSIGNEE.

United States of America)
Commonwealth of Massachusetts)
County of Middlesex)

On this 1st day of April, 2019, before me,
the undersigned notary public, personally appeared William I. Huyett
(name of document signer), proved to me through satisfactory evidence of identification,
which was personal knowledge, to be the person whose name
is signed on the preceding or attached document in my presence, and acknowledged to me that
he/she signed it voluntarily for its stated purpose as Chief Financial Officer
(capacity) of **CYCLERION THERAPEUTICS, INC.**, a corporation or other entity.

Emily Dert (official signature and seal of notary)
My commission expires February 27, 2026.



SCHEDULE 1

M&E Reference	Ironwood Reference	Country	Application No.	Patent No.
127553-01401	IW204P1	US	62/639642	
127553-01501	IW172P1	US	62/382942	
127553-01502	IW172P2	US	62/423445	
127553-01503	IW172P3	US	62/468598	
127553-01504	IW172P4	US	62/482486	
127553-01505	IW172US1	US	15/693758	
127553-01506	IW172US1CON1	US	16/273557	
127553-01601	IW132P1	US	61/790637	
127553-01602	IW132P2	US	61/914915	
127553-01603	IW132PCT1US1	US	14/775954	9481689
127553-01604	IW132PCT1US1CON1	US	15/215628	9586937
127553-01605	IW132PCT1US1DIV1	US	15/245697	10183021
127553-01606	IW132PCT1US1CON1DIV1	US	15/406959	
127553-01607	IW132PCT1US1CON2	US	15/406994	
127553-01608	IW132PCT1US1CON3	US	15/915899	
127553-01609	IW132PCT1US1CON4	US	16/178771	
127553-01701	IW139P1	US	61/914908	
127553-01702	IW139P2	US	62/051539	
127553-01703	IW139PCT1US1	US	15/103178	
127553-01801	IW143P1	US	61/926897	
127553-01802	IW143PCT1US1	US	15/110883	
127553-01901	IW144P1	US	61/926899	
127553-02001	IW086P1	US	61/314966	
127553-02002	IW086P2	US	61/446777	
127553-02003	IW086PCT1US1	US	13/635597	
127553-02101	IW094P1	US	61/360236	
127553-02102	IW094P2	US	61/406845	
127553-02103	IW094P3	US	61/474563	
127553-02104	IW094US1	US	13/174676	8748442
127553-02105	IW094US1DIV1	US	14/264200	
127553-02106	IW094US1DIV1CON1	US	15/435723	10189809
127553-02107	IW094US1REX1	US	96/000110	8748442 C1
127553-02108	IW094US1DIV1CON2	US	16/209313	
127553-02201	IW100P1	US	61/411730	
127553-02202	IW100P2	US	61/546707	
127553-02203	IW100PCT1US1	US	13/883910	9061030
127553-02204	IW100PCTUS1CON1	US	14/698244	
127553-02205	IW100PCT1US1CON2	US	15/168937	
127553-02301	IW115P1	US	61/580439	
127553-02302	IW115P2	US	61/654580	
127553-02303	IW115PCT1US1	US	14/368064	9139564
127553-02304	IW115PCT1US1DIV1	US	14/824689	
127553-02401	IW127P1	US	61/702303	

M&E Reference	Ironwood Reference	Country	Application No.	Patent No.
127553-02402	IW127PCT1US1	US	14/428844	9309235
127553-02403	IW127PCT1US1CON1	US	15/054448	
127553-02501	IW129P1	US	61/703114	
127553-02502	IW129PCT1US1	US	14/429028	9487508
127553-02503	IW129PCT1US1CON1	US	15/266021	
127553-02601	IW147P1	US	62/051557	
127553-02602	IW147P2	US	62/204710	
127553-02603	IW147PCT1US1	US	15/511900	
127553-02604	IW147PCT1US1CON1	US	15/902708	
127553-02605	IW147PCT1US1CON2	US	16/165192	
127553-02701	IW148P1	US	62/051639	
127553-02801	IW149P1	US	62/051576	
127553-02802	IW149P2	US	62/204698	
127553-02803	IW149PCT1US1	US	15/511888	
127553-02901	IW150P1	US	62/051605	
127553-02902	IW150P2	US	62/204683	
127553-02903	IW150PCT1US1	US	15/511891	
127553-02904	IW150PCT1US1CON1	US	16/119489	
127553-03001	IW151P1	US	62/051620	
127553-03002	IW151P2	US	62/204672	
127553-03003	IW151PCT1US1	US	15/511897	10047095
127553-03004	IW151PCT1US1CON1	US	16/023351	
127553-03005	IW151PCT1US1CON2	US	16/276181	
127553-03101	IW162P1	US	62/260910	
127553-03102	IW162P2	US	62/359440	
127553-03103	IW162PCT1US1	US	15/780212	
127553-03201	IW163P1	US	62/266977	
127553-03301	IW164P1	US	62/266967	
127553-03401	IW165P1	US	62/266988	
127553-03402	IW165PCT1US1	US	16/061992	
127553-03501	IW166P1	US	62/359419	
127553-03502	IW166PCT1US1	US	16/315210	
127553-03601	IW168P1	US	62/359453	
127553-03602	IW168PCT1US1	US	16/315218	
127553-03701	IW169P1	US	62/359430	
127553-03702	IW169PCT1US1	US	16/315221	
127553-03801	IW170P1	US	62/359466	
127553-03802	IW170PCT1US1	US	16/315226	
127553-03901	IW171P1	US	62/289463	
127553-03902	IW171P2	US	62/398872	
127553-03903	IW171PCT1US1	US	16/074357	
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M&E Reference	Ironwood Reference	Country	Application No.	Patent No.
127553-04102	IW175P2	US	62/423458	
127553-04301	IW176P1	US	62/419059	
127553-04401	IW177P1	US	62/419086	
127553-04501	IW195P1	US	62/433523	
127553-04601	IW198P1	US	62/558589	
127553-04602	IW198P2	US	62/575577	
127553-04603	IW198P3	US	62/652432	
127553-04604	IW198P4	US	62/688086	
127553-04701	IW200P1	US	62/579361	
127553-04801	IW197P1	US	62/607619	
127553-04901	IW199P1	US	62/607588	
127553-04902	IW199P2	US	62/639897	
127553-04903	IW199P3	US	62/783839	
127553-05001	IW201P1	US	62/615678	
127553-05201	IW202P1	US	62/639846	
127553-05301	IW205P1	US	62/691280	
127553-05302	IW205P2	US	62/783847	
127553-05401	IW208P1	US	62/696582	
127553-05402	IW208P2	US	62/697671	
127553-05701	IW210P1	US	62/787918	
127553-01420	IW204PCT1	WO	PCT/US2019/021076	
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127553-01720	IW139PCT1	WO	PCT/US2014/069537	
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127553-02020	IW086PCT1	WO	PCT/US2011/027824	
127553-02120	IW094PCT1	WO	PCT/US2011/042716	
127553-02220	IW100PCT1	WO	PCT/US2011/058902	
127553-02320	IW115PCT1	WO	PCT/US2012/071654	
127553-02420	IW127PCT1	WO	PCT/US2013/060295	
127553-02520	IW129PCT1	WO	PCT/US2013/060680	
127553-02620	IW147PCT1	WO	PCT/US2015/050468	
127553-02820	IW149PCT1	WO	PCT/US2015/050467	
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127553-03020	IW151PCT1	WO	PCT/US2015/050458	
127553-03120	IW162PCT1	WO	PCT/US2016/063312	
127553-03420	IW165PCT1	WO	PCT/US2016/066357	
127553-03520	IW166PCT1	WO	PCT/US2017/040809	
127553-03620	IW168PCT1	WO	PCT/US2017/040810	
127553-03720	IW169PCT1	WO	PCT/US2017/040817	
127553-03820	IW170PCT1	WO	PCT/US2017/040827	
127553-03920	IW171PCT1	WO	PCT/US2017/015749	
127553-04320	IW176PCT1	WO	PCT/US2017/060299	

M&E Reference	Ironwood Reference	Country	Application No.	Patent No.
127553-04420	IW177PCT1	WO	PCT/US2017/060305	
127553-04520	IW195PCT1	WO	PCT/US2017/065687	
127553-04620	IW198PCT1	WO	PCT/US2018/051195	
127553-04820	IW197PCT1	WO	PCT/US2018/066547	
127553-05020	IW201PCT1	WO	PCT/US2019/013060	
127553-05220	IW202PCT1	WO	PCT/US2019/021080	
127553-05002	IW201PCTCN	WO	PCT/CN2018/076982	