FORM PTO-1595	U.S. DÉPARTMENT OF COMM			
(Rev. 8-93)	Patent and Trademark			
	N FORM SHEET COVER			
	ENTS ONLY			
OMB No. 0651-0011 (exp. 4/94)	issioner of Patent and Trademarks:			
	original documents or copy thereof.			
1. Name of conveying party(ies):	2. Name and address of receiving party(ies):			
1. I value of convoying party(los).	z. rame and address of receiving party (105).			
Wieslaw M. Cholody	Name: Avalon Pharmaceuticals, Inc.			
Yi Zang	·			
Karina Gelman	Internal Address:			
Jeffrey W. Watthey	0			
Zoe Ohler	Street Address: 20358 Seneca Meadows Parkway			
Jeffrey Strovel Norman E. Ohler				
Sheela Chellappan				
Janak Padia	City: Germantown State: MD Zip: 20876			
Additional name(s) of conveying party(les) attached:				
☐ Yes ☒ No	Additional name(s) & address(es) attached: □ Yes ☒ No			
3. Nature of conveyance:				
☑ Assignment ☐ Merger				
☐ Security/Agreement ☐ Change of Name				
23 Security/ Agreement 13 Change of Manie				
☐ Other				
Execution Date: 8/28/08, 9/2/08, 9/4/08, 9/5/08, 9/8/08, 9/9/08,				
and 9/25/08	<u> </u>			
4. Application number(s): If this document is being filed together with a new application, th	a avacution data of the application is:			
A. Patent Application No.(s):	B. Patent No.(s)			
1.) 60/928,592 (Filed: 5/10/07)	211212111110(0)			
2.) PCT/US2008/006015 (Filed: 5/9/08)				
Additional number	ers attached? Yes No			
5. Name and address of party to whom correspondence	6. Total number of applications and patents involved: 2			
concerning document should be mailed:				
Name: Alan J. Grant, Esq.	7. Table 5 (27 CED 2.41) #86 CC			
Internal Address Carolla Brans Bain Giffilm Coochi	7. Total fee (37 CFR 3.41) <u>\$80.00</u>			
Internal Address: Carella, Byrne, Bain, Gilfillan, Cecchi, Stewart & Olstein	Enclosed			
Appropriate de Appreni	■ Fees authorized to be charged to deposit account			
Street Address: 5 Becker Farm Road	8. Deposit account number:			
City: Roseland State: New Jersey Zip: 07068	03_0678			
NA NAT	(Attach duplicate copy of this page if paying by deposit account)			
9. Statement and signature.	USE THIS SPACE			
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is—a true copy of				
the original document.				
	4, -			
Alan J. Grant, Esq.	22 September 2008			
Name of Person Signing Signature Date				
Total number of pages including cover sheet, attachments, and documents, 6				
Total number of pages including cover sheet, attachments, and document: 6				

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, P.O. Box 1450
Alexandria, VA 22313-1450, Mail Stop: Assignments

PATENT

700385194

REEL: 021577 FRAME: 0936

ASSIGNMENT

9739941744

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, <u>Wieslaw M. Cholody, Yi Zang, Karina Zuck, Jeffrey W. H. Watthey, Zoe Ohler, Jeffrey Strovel, Gene Ohler, Sheela Chellappan and Janak Padia, hereby sells, assigns and transfers to <u>Avalon Pharmaceuticals (the "Assignee"</u>), having a place of business at <u>20358 Seneca Meadows Parkway. Germantown, Maryland 20876</u>, a corporation, its successors, assigns and legal representatives, their entire right, title and interest for the United States and all other countries, including Canada, in and to the improvements(s) known as: United States Provisional Application Serial Nos. <u>60/928,592</u>, filed 10 May 2007, and 60/999.153, filed 15 October 2007, as well as International Application PCT/US2008/006015, filed 9 May 2008, and/or executed on even date herewith and is entitled:</u>

DERIVATIVES OF FLUORENE, ANTHRACENE, XANTHENE, DIBENZOSUBERONE AND ACRIDINE AND USES THEREOF

and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all other countries on any of said improvements, and in and to all original, re-examined and reissued patents and extensions thereof which have been or shall be issued in the United States and all other countries, including Canada, on said improvements (hereinafter collectively, the "Improvements").

The undersigned further agrees that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and, when requested, without charge to but at the expense of Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue and all other patent applications on all such Improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives all facts known to the undersigned relating to said Improvements and the history thereof; and do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said Improvements and all applications for patent and all patents on said improvements in Assignee, its successors, assigns and representatives.

The undersigned hereby represents and warrants to Assignee, its successors, assigns and representatives that no assignment, grant, mortgage, license or other right or agreement affecting the rights and property herein conveyed has been made to others by the undersigned and that full right to convey the same as expressed herein is possessed by the undersigned.

The undersigned hereby grants power to John N. Bain (Reg. No. 18,6\$1); John G. Gilfillan, III (Reg. No. 22,746); Elliot M. Olstein (Reg. No. 24,025); Raymond J. Lillie (Reg. No. 31,778); William Squire (Reg. No. 25,378); Alan J. Grant (Reg. No. 33,389); Francis C. Hand (Reg. No. 22,280); G. Glennon Troublefield (Reg. No. 39050); Raymond E. Stauffer (Reg. No. 47,109); and Michael A. Petrocelli (Reg. No. 53,461) to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document. Address correspondence and telephone calls to Alan J. Grant, c/o Carella, Byrne, Bain, Gilfillan, Cecchi, Stewart & Olstein, 5 Becker Farm Road, Roseland, New Jersey 07068.

IN WITNESS WHEREOF, this Assignment is executed by the undersigned on the date(s) opposite their signature(s):

STATE OF Manufano COUNTY OF Hederck: SS.:

Before me this day of Leptender 2008, personally appeared the above named individual(s), to me known to be the person(s) who are described in and who executed the foregoing assignment instrument and acknowledged to me that they executed the same of their own free will for the purpose therein expressed.

SHARON M. MacCRACKEN Notary Public The State of Maryland Frederick County Commission Expires 1/18/12

CARELLA, BYRNE, BAIN, GILFILLAN, CECCHI, STEWART & OLSTEIN 5 Becker Farm Road - Roseland, NJ 07068 - (973) 994-1700

Docket No. 689290-308

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Serial No. PCT/US2008/006015

Title: DERIVATIVES OF FLUORENE, ANTHRACENE, XANTHENE, DIBENZOSUBERONE AND ACRIDINE AND USES THEREOF

Docket No. 689290-308

			De	e separate
Second Inventor's Signature:	Yi Zang		4 1	
STATE OF, COUNTY		: SS.:		l Sepapate Date: Acquature Page
Before me thisindividual(s), to me known to be the pers acknowledged to me that they executed the				ared the above named ignment instrument and
	Notary Public		.	
Third Inventor's Signature:	agemae Lagarina Zuck	<u> </u>		Date: 8/28/08
STATE OF Maryand, COUNT	Y OF frederic	<u>/:ss</u> .:		·
Before me this 27 mindividual(s), to me known to be the persacknowledged to me that they executed the	юл(s) who are describ		the foregoing as:	ared the above named signment instrument and
SHARON M. MacCRACKEN Notary Public The State of Maryland Frederick County Commission Expires 1/16/12	Notary Public	M. Mac Cr		1 ,
Fourth Inventor's Signature:	Jeffely W. H. W	-		Date: 9/4/08
STATE OF Many au COUNT	va frederic	<u></u>		
Before me this 446 individual(s), to me known to be the peracknowledged to me that they executed the	day of Lepfe, son(s) who are describ e same of their own fre	ed in and who executed	the foregoing as	ared the above named signment instrument and
SHARON M. MacCRACKEN Notary Public The State of Maryland Frederick County Commission Expires 1/16/12	Notary Public	m mac (Jake.	
		LAN, CECCHI, STEWART land, NJ 07068 - (973) 994		

Docket No. 689290-308

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Serial No. PCT/US2008/006015

Title: DERIVATIVES OF FLUORENE, ANTHRACENE, XANTHENE, DIBENZOSUBERONE AND ACRIDINE AND USES THEREOF

Docket No. 689290-308

, Fifth Inventor's Signature:	Ja .	Ohl		Dat	::4/s/o8
STATE OF Maryland	, COUNTY OF,	Le deride	; \$\$.:		•
Before me this individual(s), to me known to be acknowledged to me that they e	e the person(s)	who are described in a	and who executed th	ie iolegoling assign	the above named ment instrument and
SHARON M. MacCRACKE Notary Public The State of Maryland Frederick County Commission Expires 1/16		Sharon Notary Public	n. mac	jake_	
Sixth Inventor's Signature:	My l	W Survey Jeffrey Strawel			te: <i>IBIQ9</i> RACKEN
STATE OF Maryland Before me this	_, COUNTY OF	Frederick	·: SS.: , 2008, p	The State of M Frederick Co mornization Explorate	aryland cunty res 1/16/12 d the above named
individual(s), to me known to to -acknow ledged to me that they c	oe ine personis)	who are described in the of their own free will-fo	and wyo execnted tr	ne foregoing assigr	ment instrument and
Seventh Inventor's Signature: _	Nom	Notary Public	Ale Or	ules -	Date: <u>9/5</u> /08
countrofledend	ટ:ss	.: 			
Before me this individual(s), to me known to be acknowledged to me that they experience.	se the person(s)	of <u>September</u>) who are described in no of their own free will fo	and who executed ti	ne toregoing assigi	d the above named
		Sharon M. Notary Public	MacCracken Co	HARON M. Mac Notary Pul The State of M Frederick Co ommission Expl	CRACKEN blo aryland sunty res 1/16/12

CARELLA, BYRNE, BAIN, GILFILLAN, CECCHI, STEWART & OLSTEIN 5 Becker Farm Road - Roseland, NJ 07068 - (973) 994-1700

Docket No. 689290.308

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Serial No. PCT/US2008/006015

Title: DERIVATIVES OF FLUORENE, ANTHRACENE, XANTHENE, DIBENZOSUBERONE AND ACRIDINE AND USES THEREOF

Docket No. 689290-308

Eighth Inventor's Signature:	Shelden	Date: <u>08</u> 28 (08
	Sheela Chellappan	
individual(s), to me known to l	day of the described in and who executed the same of their own free will for the purp	_, 2008, personally appeared the above named executed the foregoing assignment instrument and lose therein expressed.
SHARON M. MacCRACKEN Notary Public The State of Maryland Frederick County Commission Expires (/16/12)	Notary Public	nac Cracken
Nìnth Inventor's Signature:	Janah b Padis	9 02 08
-	_, countrof Trederick : ss	
inai∨ia⊔ai(s), to me known to l	day of September that the person(s) who are described in and who executed the same of their own free will for the part	_, 2008, personally appeared the above named executed the foregoing assignment instrument and cose therein expressed:

SHARON M, MacCRACKEN Notary Public The State of Maryland Frederick County Commission Expires 1/16/12

Motary Public

CARELLA, BYRNE, BAIN, GILFILLAN, CECCHI, STEWART & OLSTEIN 5 Becker Farm Road - Roseland, NJ 07068 - (973) 994-1700

Docket No. 689290,308

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Serial No. PCT/US2008/006015

Title: DERIVATIVES OF FLUORENE, ANTHRACENE, XANTHENE, DIBENZOSUBERONE AND ACRIDINE AND USES THEREOF

Docket No. 689290-308

		Vini		Date: 5/25/2012
	Second Inventor's Signature:	y Zang		Date:
	STATE OF 7. J., COUNTY OF	Merces	: 55.:	
	Before me this day Individual(s), to me known to be the person(s) acknowledged to me that they executed the same	of who are described in an ie of their own free will for t	, 2008, personally appa d who executed the foregoing as the purpose therein expressed.	sared the above named saignment instrument and
MY	SALMA CUADRADO NOTARY PUBLIC OF NEW JERSEY COMMISSION EXPIRES JAN. 13, 2013	Sulma Notary Public	- fundrada	
	Third Inventor's Signature:	glmen Farina Zuok		Date: 8/28/08
	STATE OF Manyand, COUNTY OF	U .	: SS.:	
	Before me this 28 day individual(s), to me known to be the person(s) acknowledged to me that they executed the same	⊢Who are described in an	d who executed the foregoing as	ssignment instrument and
	SHARON M. MacCRACKEN Notary Public The State of Maryland Frederick County Commission Expires 1/16/12	Ahuon M.	Mac Cracken	
	Fourth Inventor's Signature:	Jeffrey W. H. Watthey	<u></u>	Date:
	A.	,		· · ·
	STATE OF, COUNTY OF		: \$8.:	
	Before me this day individual(s), to me known to be the person(s) acknowledged to me that they executed the same	of who are described in an e of their own free will for	, 2008, personally app d who executed the foregoing a the purpose therein expressed.	eared the above named ssignment instrument and
		Notary Public		

CARELLA, BYRNE, BAIN, GILFILLAN, CECCHI, STEWART & OLSTEIN 5 Becker Farm Road - Roseland, NJ 07068 - (973) 994-1700

Docket No. 689290-308

RECORDED: 09/22/2008

REEL: 021577 FRAME: 0941