

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Indiana University Foundation	06/30/1997
RECEIVING PARTY DATA	
Name:	Advanced Research & Technology Institute
Street Address:	501 North Morton Street
Internal Address:	Suite 111
City:	Bloomington
State/Country:	INDIANA
Postal Code:	47404
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	11340983
CORRESPONDENCE DATA	
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Email:	eshuster@uspatent.com
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Address Line 1:	Woodard, Emhardt et al.
Address Line 2:	111 Monument Circle, Suite 3700
Address Line 4:	Indianapolis, INDIANA 46204
ATTORNEY DOCKET NUMBER:	7037-515
NAME OF SUBMITTER:	Elizabeth A. Shuster

Total Attachments: 21  
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## PATENT ASSIGNMENT

THIS PATENT ASSIGNMENT (the "Assignment"), made as of the 30th day of June, 1997, by and between Indiana University Foundation, a nonprofit corporation organized under the laws of the State of Indiana, ("Assignor"), and the Advanced Research & Technology Institute, an Indiana nonprofit entity incorporated in 1996 to assist Indiana University ("Assignee").

### WITNESSETH

WHEREAS, Assignor has previously been assigned right, title, and interest in property listed on Schedule A attached hereto by the Inventor of said property; and

WHEREAS, Assignee is desirous of acquiring Assignor's interest in the same;

NOW, THEREFORE, in consideration of the premises set forth herein and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor agrees as follows:

**1. Assignment of Patents.** Assignor hereby grants, conveys, and assigns to Assignee, all of Assignor's right, title, and interest in and to all of its now owned or existing:

1. U.S. and foreign patents and patent applications including, without limitation, the inventions and improvements described and claimed therein, as listed on Schedule A attached hereto (hereinafter called "Patents");
2. The reissues, divisions, continuations, renewals, extensions, continuations-in-part, and improvements thereof;
3. All income, royalties, damages, and payments now and hereafter due and/or payable under and with respect thereto, including, without limitation, damages and payments for past or future infringements thereof; and
4. The right to sue and recover for past, present, and future infringements thereof.

2. **Covenants and Warranties.** Assignor represents, warrants, and covenants that:

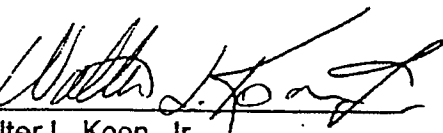
1. The Patents are subsisting, have not been adjudged invalid or unenforceable in whole or in part, and are not currently being challenged in any way;
2. None of the Patents has lapsed or expired;
3. No claim has been made that the use of any of the Patents constitutes an infringement of any senior or dominant U.S. patent or other intellectual property right; and
4. Assignor has the full right to convey the right, title and interest herein assigned.

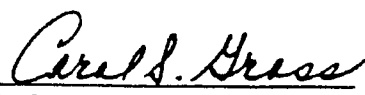
3. **Binding effect; Benefits.** This Assignment shall be binding upon Assignor and its respective successors and assigns and shall inure to the benefit of Assignee, its nominees, successors, and assigns.

4. **Authorization and Request.** Assignor authorizes and requests the Commissioner of Patents and Trademarks to issue in the name of the Assignee any and all patents of the United States to issue from pending patent applications, or reissues, divisions, continuations, renewals, extensions, continuations-in-part or improvements resulting from Patents.

WITNESS the due execution hereof as of the date first above written.


Indiana University Foundation

By:   
Walter L. Koon, Jr.  
Senior Vice President, Investments

Attest:   
Carol S. Gross  
Corporate Secretary

Accepted:

Advanced Research & Technology Institute

By:   
Douglas Wilson  
President

cc: Julie M. Watson  
Vice President  
Advanced Research and Technology Institute

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TABLE 1 - ISSUED U.S. PATENTS

	PATENT NUMBER	ISSUE DATE	INVENTORS
R. B. Love X	5,686,070	November 11, 1997	Claire M. Doerschuk, et al.
Scanlon X	5,097,024	September 25, 1989	Marion E. Hodes
K. Johnson X	5,693,501	December 2, 1997	Chao-Hung Lee, et al.
Barnard et al X	5,679,511	October 21, 1997	Byoung Se Kwon
	5,686,278 033	November 11, 1997	David A. Williams, et al.
	5,679,701 005-CIP3-DIV2	October 21, 1997	Koert Gerzon, et al.
B. Rowland X	5,672,346	September 30, 1997	Edward Srour, et al.
	5,652,336 009-DIV	July 29, 1997	Wilmer K. Fife, et al.
	5,649,911 069	July 22, 1997	Scott O. Trerotola
	5,639,840 021	June 17, 1997	Wilmer K. Fife, et al.
Locke ... X	5,639,712	June 17, 1997	Paul A. Grieco, et al.
	5,618,518 057	April 8, 1997	George K. Stookey
Price et al X	5,614,711	March 25, 1997	Gangqiang Li, et al.
	5,610,010 004	March 11, 1997	Stefan J. Surzycki, et al.
	5,602,301 030	February 11, 1997	Loren J. Field
	5,591,226	January 7, 1997	Scott O. Trerotola, et al.
	5,554,753 031	September 10, 1996	Martin J. o'Donnell, et al.
	5,553,609 046	September 10, 1996	Yaobin Chen, et al.
	5,552,309	September 3, 1996	Keith L. March
	5,536,823* 007-CIP	July 16, 1996	Theodore S. Widlanski
	5,516,892 009-CON	May 14, 1996	Wilmer K. Fife, et al.
	5,510,613 045-DIV	April 23, 1996	James P. Reilly, et al.
	5,510,500 005-CIP3-DIV	April 23, 1996	Koert Gerzon, et al.
	5,506,100 004-CIP	April 9, 1996	Stefan Surzycki, et al.
	5,504,326 045	April 2, 1996	James P. Reilly, et al.

PATENT

TABLE 1 - ISSUED U.S. PATENTS

PATENT NUMBER	ISSUE DATE	INVENTORS
5,476,469 013-CON	December 19, 1995	David A. Hathaway, et al.
5,453,522 039	September 26, 1995	Chester Davis, et al.
5,453,382	September 26, 1995	Milos V. Novotny, et al.
5,442,106 011	August 15, 1995	Martel Zeldin, et al.
5,432,288 005-CIP3	July 11, 1995	Koert Gerzon, et al.
5,405,837	April 11, 1995	George Weber
5,366,486	November 22, 1994	Douglas P. Zipes, et al.
5,335,860 022	August 9, 1994	Gary M. Hieftje, et al.
5,310,682	May 10, 1994	Milos V. Novotny, et al.
5,306,250	April 26, 1994	Keith L. March, et al.
5,304,184 013	April 19, 1994	David Hathaway, et al.
5,296,217 016	March 22, 1994	George K. Stookey
5,292,416	March 8, 1994	Milos V. Novotny, et al.
5,194,555 002	March 16, 1993	Martel Zeldin, et al.
5,171,217	December 15, 1992	Keith L. March, et al.
5,143,753 071-DIV	September 1, 1992	Milos V. Novotny, et al.
5,124,932	June 23, 1992	Robert A. Lodder
5,121,338	June 9, 1992	Robert A. Lodder
5,116,864	May 26, 1992	Keith L. March, et al.
5,080,771	January 14, 1992	Milos V. Novotny, et al.
5,074,982 071	December 24, 1991	Milos V. Novotny, et al.
5,012,052	April 30, 1991	John M. Hayes
4,997,944 IUC-001	March 5, 1991	Martel Zeldin, et al.
4,893,253	January 9, 1990	Robert A. Lodder

Townsend X

Lyon + Lyon X  
B + Daville X

Townsend X  
B + D X

Townsend X

Kirkland X  
Kirkland X

Kirkland X  
Kirkland X

Townsend X  
Townsend X

Kirkland X

Kirkland X

TABLE 1 - ISSUED U.S. PATENTS

PATENT NUMBER	ISSUE DATE	INVENTORS
4,882,493	November 21, 1989	Robert A. Lodder
4,874,558	October 17, 1989	Wilmer K. Fife, et al.
4,855,433	August 8, 1989	Martel Zeldin
4,851,385	July 25, 1989	Roger W. Roeske
4,835,140	May 30, 1989	James W. Smith, et al.
4,800,279	January 24, 1989	Gary M. Hiefert, et al.
4,742,223	May 3, 1988	Lawrence L. Kesmodel
4,659,926	April 21, 1987	Lawrence L. Kesmodel
4,642,778	February 10, 1987	Gary M. Hiefert, et al.
4,642,567	February 10, 1987	Jerome I. Kaplan
4,559,449	December 17, 1985	Lawrence L. Kesmodel
4,514,509	April 30, 1985	Richard B. Kohler, et al.
4,503,206	March 5, 1985	Ivan M. Robinson
4,492,322	January 8, 1985	Gary M. Hiefert, et al.
4,466,952	August 21, 1984	Harry E. Hadd
4,428,928	January 31, 1984	Joseph C. Muhler, et al.
4,418,053	November 29, 1983	Joseph C. Muhler, et al.
4,400,372	August 23, 1983	Joseph C. Muhler, et al.
4,383,219	May 10, 1983	Jerome I. Kaplan
4,254,259	March 3, 1981	Ernest E. Campaigne, et al.
4,214,238	July 22, 1980	William M. Adams, et al.
4,194,513	March 25, 1980	Samuel A. Rhine, et al.
4,153,732	May 8, 1979	Joseph C. Muhler, et al.
4,134,999	January 16, 1979	Joseph C. Muhler, et al.

KE X

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PATENT PATENT



TABLE 1 - ISSUED U.S. PATENTS

PATENT NUMBER	ISSUE DATE	INVENTORS
4,122,163	October 24, 1978	Joseph C. Muhler, et al.
4,121,634	October 24, 1978	John Michael Hayes, et al.
4,117,109	September 26, 1978	George K. Stookey
4,108,981	August 22, 1978	Joseph C. Muhler, et al.
4,108,979	August 22, 1978	Joseph C. Muhler, et al.
4,100,918	July 18, 1978	John Glancy
4,070,247	January 24, 1978	Stanton C. Burt
4,063,035	December 13, 1977	Dudley Ralph Appelman et al.
4,043,905	August 23, 1977	Milos V. Novotny, et al.
4,042,680	August 16, 1977	Joseph C. Muhler, et al.
4,014,095	March 29, 1977	Henry C. Heimansohn
3,967,321	July 6, 1976	John Patrick Ryan, et al.
3,958,334	May 25, 1976	Henry C. Heimansohn
3,958,333	May 25, 1976	Henry C. Heimansohn
3,947,592	March 30, 1976	Hanus J. Grosz
3,897,548	July 29, 1975	Simon Katz
4,547,370	November 29, 1983	Roger W. Roeske
4,699,996	February 18, 1983	Paul A. Grieco
5,299,000	June 17, 1992	Gopal K. Srivastava
5,323,924	January 8, 1993	Stacy L. Wolff
5,409,825	October 12, 1993	Ronald Hoffman
5,522,525	December 2, 1994	John T. McLaughlin
5,602,397	November 1, 1995	William K. Pitts
5,668,122	May 1, 1995	Rose S. Fife

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*KE* X  
*Jenkins* X  
  
X  
*Renn* X  
  
*Kelly* X  
  
MBS X

TABLE 1 - ISSUED U.S. PATENTS

PATENT NUMBER	ISSUE DATE	INVENTORS
5,614,722	March 25, 1997	Keith Solberg, et al.
5,591,576	January 7, 1997	Martin Bard, et al.
5,525,496	June 11, 1996	Martin Bard, et al.
5,512,472	April 30, 1996	Martin Bard, et al.
5,427,860	June 27, 1995	Wilmer Fife, et al. <i>Zeldin</i>
5,294,544	March 15, 1994	Hal Broxmeyer, et al.
5,252,326	October 12, 1993	Milos Novotny, et al.
5,149,544	September 22, 1992	Hal Broxmeyer, et al.

*Webster*  
*"* X  
*"* X  
*William* X  
*David* X  
*William* X

274701

TABLE 2 - PENDING U.S. PATENTS

SERIAL NO.	FILING DATE	INVENTORS	TITLE
	September 23, 1997	Brian Patton, et al.	Apparatus & Method for Positive Closure of an Internal Tissue Membrane Opening
	September 3, 1997	William Martin	Methods and Compositions for Inhibiting Bacterial Growth
60/056,052	September 2, 1997	Arun Srivastava	
08/916,491	August 22, 1997	Paul Dubin, et al.	
	August 15, 1997	Kenneth Fife, et al.	Functional Characterization of the C-C-Chemokine-Like Molecules Encoded By Molluscum Contagiosum Virus Types 1 and 2
08/814,836	July 21, 1997	Mark Marshall, et al.	
08/893,828	July 11, 1997	Marc Muskavitch, et al.	
	June 29, 1997	Qian Xiaotao, et al.	Methods and Compositions Comprising R-Ibuprofen
	June 24, 1997	Lei Yu	Dynorphins as Endogenous Ligands for an Orphan Receptor
08/879,870	June 20, 1997	Qian Xiaotao, et al.	
08/872,719	June 11, 1997	Mark Kelley	
	June 11, 1997	Mark Kelley, et al.	Methods and Compositions for the use of Apurinic/Apyrimidinic Endonucleases
08/867,245	June 2, 1997	David Clemmer, et al.	
08/846,805	May 1, 1997	Paul Greico, et al.	

PATENT

REEL: 8861 FRAME: 0799

PATENT

REEL: 017644 FRAME: 0437

TABLE 2 - PENDING U.S. PATENTS

SERIAL NO.	FILING DATE	INVENTORS	TITLE
08/845,472	April 25, 1997	Joseph Montebello, et al.	
60/044,116	April 21, 1997	Peter Roach, et al.	
08/828,194	March 21, 1997	Asok Antony, et al.	
08/816,670	March 13, 1997	Matthew Johnson	
08/785,795	January 21, 1997	Dring Crowell, et al.	
08/783,196	January 15, 1997	Jonathan Mills	
08/777,708	December 20, 1996	Ora Pescovitz, et al.	
08/749,513	November 15, 1996	Robert Hromas, et al.	
08/740,421	October 29, 1996	Russ Eberhart, et al.	
08/735,193	October 21, 1996	David Daleke, et al.	
60/027,729	October 1, 1996	William Martin	
08/707,224	September 3, 1996	Scott Trerotola, et al.	
08/705,777	August 30, 1996	Rose Fife, et al.	
08/689,837 04	August 14, 1996	Glenn Mason, et al.	5779 949
08/657,621	May 30, 1996	Martin Bard, et al.	
60/016,230	April 26, 1996	Joseph Montebello, et al.	
08/636,327	April 23, 1996	Koert Gerzon, et al.	
08/674,984	April 3, 1996	Bryan Hainline	
60/013,756	March 20, 1996	Anthony Mescher	
60/013,274	March 12, 1996	Mark Marshall, et al.	
08/583,863	January 11, 1996	Hal Broxmeyer, et al.	
08/581,190	December 29, 1995	Roy Westcott, et al.	
08/566,140	December 1, 1995	James Reilly, et al.	
08/550,967	October 31, 1995	Hal Broxmeyer, et al.	

TABLE 2 - PENDING U.S. PATENTS

SERIAL NO.	FILING DATE	INVENTORS	TITLE
08/472,407	October 23, 1995	Ted Widlanski	
08/536,891	September 29, 1995	David A. Williams, et al.	
08/534,408	September 27, 1995	Lei Yu	
08/527,838	September 13, 1995	Liang-che Tao	
08/465,500	July 5, 1995	Marc Muskavitch, et al.	
08/482,439	June 7, 1995	Wilmer Fife, et al.	
08/477,783	June 7, 1995	Loren Field	
08/474,536	June 7, 1995	Hal Broxmeyer, et al.	
08/487,729	June 7, 1995	Keith March, et al.	
08/483,512	June 7, 1995	Keith March	
08/480,494	June 7, 1995	Roger Roeske	
08/474,162	June 7, 1995	Slawomir Rubinsztajn, et al.	
08/475,176	June 7, 1995	Merrill Benson, et al.	
08/465,765	June 6, 1995	Brian Patton, et al.	
08/467,661	June 6, 1995	Ronald Hoffman, et al.	
08/461,652	June 5, 1995	Byoung Kwon, et al.	
08/460,976	June 5, 1995	Byoung Kwon, et al.	
08/463,225	June 5, 1995	Byoung Kwon, et al.	
08/462,303	June 5, 1995	Byoung Kwon	
08/460,533	June 2, 1995	Mark Marshall, et al.	
08/459,351	June 2, 1995	Mark Marshall, et al.	
08/449,881	May 25, 1995	Marilyn Bartlett	
08/450,286	May 25, 1995	Marilyn Bartlett	
08/452,587	May 25, 1995	Marilyn Bartlett	

TABLE 2 - PENDING U.S. PATENTS

SERIAL NO.	FILING DATE	INVENTORS	TITLE
08/434,018	May 3, 1995	Merrill Benson, et al.	
08/431,751	May 1, 1995	Rose Fife, et al.	
08/409,851	March 23, 1995	Byoung Kwon, et al.	
08/400,580	March 8, 1995	Chao-Hung Lee, et al.	
08/397,736	March 2, 1995	George Weber	
08/398,611	March 1, 1995	Claire Doerschuk	
08/398,612	March 1, 1995	Claire Doerschuk	
08/346,126	November 28, 1994	Marc Muskavitch, et al.	
08/334,735	November 4, 1994	Paul Grieco, et al.	
08/331,265	October 28, 1994	Rose Fife, et al.	
08/263,041	June 21, 1994	Paul Dubin, et al.	
08/259,672	June 10, 1994	Mark Marshall, et al.	
08/247,776	May 23, 1994	Norman Pace, et al.	
08/226,513	March 31, 1994	Ronald Hoffman, et al.	
08/218,355	March 25, 1994	David A. Williams, et al.	
08/194,838	February 14, 1994	Ted Widlanski	
144,912	October 28, 1993	Milos Novotny, et al.	
08/120,601	September 13, 1993	Lei Yu	
08/094,851	July 20, 1993	Hal Broxmeyer, et al.	
08/065,722	May 20, 1993	Hal Broxmeyer, et al.	
08/012,269	February 1, 1993	Byoung Kwon, et al.	
07/987,638	December 9, 1992	Hal Broxmeyer, et al.	
07/919,447	July 27, 1992	Edward Srour, et al.	
07/893,705	June 5, 1992	Peter Roach, et al.	

TABLE 2 - PENDING U.S. PATENTS

SERIAL NO.	FILING DATE	INVENTORS	TITLE
07/887,711	May 22, 1992	Jonathan Mills	
07/750,109	August 26, 1991	Janice Froehlich, et al.	

274701

## ISSUED AND PENDING FOREIGN PATENTS

COUNTRY	PATENT NUMBER	ISSUE DATE	SERIAL NUMBER	FILING DATE	INVENTORS	TITLE
New Zealand	253927	October 8, 1996			George Stookey	
New Zealand			273838	March 16, 1996	Byoung Kwon, et al.	
New Zealand			266359	May 5, 1994	George Weber	
PCT				June 20, 1997	Qian Xiaotao, et al.	Methods and Compositions Comprising R-Ibuprofen
PCT				September 30, 1997	William Martin	Methods and Compositions for Inhibiting Bacterial Growth
PCT				August 28, 1997	Michael Kubek	Novel Pharmacotherapeutic Process and Composition for Central Nervous System Disorders
PCT			PCT/US97/10762	June 20, 1997	Qian Xiaotao, et al.	
PCT			PCT/US97/10078	June 11, 1997	Mark Kelley, et al.	
PCT			PCT/US97/10078	June 11, 1997	Mark Kelley	
PCT			PCT/US97/09160	May 30, 1997	Martin Bard, et al.	
PCT			PCT/US97/08263	May 16, 1997	Scott Trerotola	
PCT			PCT/US97/04595	March 21, 1997	Asok Antony, et al.	
PCT			PCT/US97/03881	March 12, 1997	Keith March	
PCT			PCT/US97/0287	February 15, 1997	Alon Harris, et al.	
PCT			PCT/US96/20632	December 20, 1996	Ora Pescovitz, et al.	
PCT			96/15712	September 30, 1996	David A. Williams, et al.	
PCT			PCT/US96/09852	June 7, 1996	Roger Roeske	
PCT			PCT/US96/07328	May 21, 1996	George Stookey	
PCT			PCT/US96/07225	May 17, 1996	Alon Harris, et al.	
PCT			PCT/US96/03965	March 22, 1996	Byoung Kwon, et al.	
PCT			PCT/US96/01961	February 9, 1996	Yaobin Chen, et al.	
PCT			PCT/US96/01229	January 26, 1996	Slawomir Rubinxztajn, et al.	
PCT			PCT/US96/00397	January 16, 1996	Scott Trerotola, et al.	

PATENT

REF: 017644 PRAME: 0442



ISSUED AND PENDING FOREIGN PATENTS

COUNTRY	PATENT NUMBER	ISSUE DATE	SERIAL NUMBER	FILING DATE	INVENTORS	TITLE
Argentina	231,073	August 28, 1984			Mark Putt, et al.	
Argentina			329,588	September 28, 1994	George Weber	
Argentina			328,234	May 18, 1994	George Weber	
Australia	677,236	April 17, 1997			David A. Williams, et al.	
Australia	671,469	December 17, 1997			George Stookey	
Australia	667,293	August 2, 1996			Stefan Surzycki, et al.	
Australia	657,829	July 11, 1995			Arun Srivastava, et al.	
Australia	652,625	December 20, 1994			Keith March, et al.	
Australia	651,701	November 15, 1994			Keith March, et al.	
Australia	649,017	September 27, 1994			Martel Zeidin, et al.	
Australia	641,607	March 23, 1994			Milos Novotny, et al.	
Australia	639,873	December 6, 1993			Milos Novotny, et al.	
Australia	563,606	December 22, 1987			Mark Putt, et al.	
Australia			77294/94	March 16, 1996	Byoung Kwon, et al.	
Australia			21979/95	March 27, 1995	David A. Williams, et al.	
Australia			10976/95	November 16, 1994	Loren Field	
Australia			19197/92	May 1, 1992	Marc Muskavitch, et al.	
Australia					George Weber	Method for the Treatment of Neoplastic Disease Utilizing Tiazofurin and Ribavirin
Australia				March 21, 1997	Asok Antony, et al.	Folate Receptor-Directed Metalloproteases and Methods for Using Same
Brazil			PI9306553-1	June 11, 1993	George Stookey	
Brazil					George Weber	Method for the Treatment of Neoplastic Disease Utilizing Tiazofurin and Ribavirin
Canada	1,222,955	June 16, 1987			Mark Putt, et al.	
Canada	1,154,682	October 4, 1983			Joseph Muhler, et al.	
Canada			2,172,165	March 16, 1996	Byoung Kwon, et al.	

PATENT

REEL: 8861 FRAME: PATENT

REEL: 017644 FRAME: 0443

ISSUED AND PENDING FOREIGN PATENTS						
COUNTRY	PATENT NUMBER	ISSUE DATE	SERIAL NUMBER	FILING DATE	INVENTORS	TITLE
Canada			2,171,739	March 13, 1996	Lei Yu	
Canada			2,204,361	November 3, 1995	Paul Greico, et. al.	
Canada			2,185,712	March 27, 1995	David A. Williams, et al.	
Canada			2,142,879	February 20, 1995	David A. Williams, et al.	
Canada			2174860	November 16, 1994	Loren Field	
Canada			2,129,282	August 2, 1994	George Weber	
Canada			2163905	June 10, 1994	Mark Marshall, et al.	
Canada			2,162,610	May 18, 1994	Hal Broxmeyer, et al.	
Canada			2,151,387	December 9, 1993	Hal Broxmeyer, et al.	
Canada			2,108,942	November 21, 1993	Milos Novotny, et al.	
Canada			2108025	October 7, 1993	Keith March, et al.	
Canada			PCT/US93/07059	July 27, 1993	Edward Strour, et al.	
Canada			2,096,680	July 16, 1993	Milos Novotny, et al.	
Canada			2,098,483	November 6, 1992	Arun Srivastava, et al.	
Canada			2,102,208	May 1, 1992	Marc Muskavitch, et al.	
Canada			2,105,079	February 21, 1992	Keith March, et al.	
Canada			093,804	October 11, 1991	Siefan Surzycki, et al.	
Canada			462,599	September 6, 1984	Paul Grieco	
Canada			2167296		Jay Tischfield, et al.	Mammalian Low Molecular Weight PA2 Nucleotide and Amino Acid Sequence
Canada			2107897		Ronald Hoffman, et al.	System and Process for Supporting Hematopoietic Cells
Canada					George Weber	Method for the Treatment of Neoplastic Disease Utilizing Tiazofurin and Ribavirin
Canada					Claire Doerschuk	Anti-IL-8 Monoclonal Antibodies for Treatment of

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ISSUED AND PENDING FOREIGN PATENTS						
COUNTRY	PATENT NUMBER	ISSUE DATE	SERIAL NUMBER	FILING DATE	INVENTORS	TITLE
Canada			96/20622	December 20, 1996	Ora Pescovitz, et al.	Inflammatory Disorders
China			95193268.3	March 27, 1995	David A. Williams, et al.	
Denmark, France, Germany, Italy	0598560	July 17, 1996			Milos Novotny, et al.	
EPO	0 575 139 B1	October 23, 1996			Milos Novotny, et al.	
EPO	0112714	March 4, 1987			Ivan Robinson	
EPO			94928113.3	March 12, 1996	Lel Yu	
EPO			95911000.8	February 14, 1995	Ted Widlanski	
EPO			95901911.8	November 16, 1994	Loren Field	
EPO			92917447.2	October 29, 1993	Keith March, et al.	
EPO			93923859.8	October 13, 1993	Brian Patton, et al.	
EPO			92908902.7	September 20, 1993	Keith March, et al.	
EPO			93 92 0456.6		David A. Williams, et al.	Method of Treating Cell Damage or Depletion
EPO			95 94 4025.6-2	May 1, 1997	Paul Grieco, et al.	
EPO			96306567.7	September 10, 1996	Liang-che Tao	
EPO			94928000.2	May 29, 1995	George Weber	
EPO			95914912.1	March 27, 1995	David A. Williams, et al.	
EPO			94920178.4	June 10, 1994	Mark Marshall, et al.	
EPO			92925180.9	November 6, 1992	Arun Srivastava, et al.	
EPO			92911557.4	May 1, 1992	Mark Muskavitch, et al.	
EPO			91919982.8	October 11, 1991	Stefan Surzycki, et al.	
EPO			94916011.3		George Weber	Method for the Treatment of Neoplastic Disease Utilizing Tiazofurin and Ribavirin
EPO			94916812.4	May 18, 1994	Hal Broxmeyer, et al.	

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COUNTRY	PATENT NUMBER	ISSUE DATE	SERIAL NUMBER	FILING DATE	INVENTORS	TITLE
EPO			94300153.7	January 10, 1994	Gary Hieftje, et al.	
EPO			94904422.6	December 9, 1993	Hal Broxmeyer, et al.	
EPO			94928141.4	March 16, 1996	Byoung Kwon	
EPO			93915371.4	June 11, 1993	George Stookey	
France	0102695	April 28, 1990			Mark Pitt, et al.	
France			9113213	October 25, 1991	Milos Novotny, et al.	
Germany	413545	March 8, 1995			Milos Novotny, et al.	
Great Britain			9122660.5	October 25, 1991	Milos Novotny, et al.	
India			896/M/94	September 14, 1994	George Weber	
India			369/CAL/94	May 17, 1994	George Weber	
Ireland			P 921367	July 1, 1992	Marc Muskavitch, et al.	
Israel	106,036	April 11, 1997			George Stookey	
Israel			118,310	May 17, 1996	George Stookey	
Israel			103677	November 6, 1992	Arun Srivastava, et al.	
Israel			P 101728	April 29, 1992	Marc Muskavitch, et al.	
Italy			RM91A000812	October 25, 1991	Milos Novotny, et al.	
Japan	1982959	March 6, 1996			Milos Novotny, et al.	
Japan	1557254	May 16, 1990			Joseph Muhler, et al.	
Japan			HE17-502154	May 13, 1997	Keith March	
Japan			525257/95	September 25, 1996	David A. Williams, et al.	
Japan			509364/1995	March 16, 1996	Byoung Kwon, et al.	
Japan			7-509319	March 13, 1996	Lei Yu	
Japan			8-515453	November 3, 1995		
Japan			514553/95	November 16, 1994	Loren Field	
Japan			149,480	June 10, 1994	Mark Marshall, et al.	
Japan			5-283494	May 18, 1994	Hal Broxmeyer, et al.	
Japan			510224/94	November 12, 1993	Milos Novotny, et al.	
Japan			510256/1992	October 13, 1993	Brian Patton, et al.	
Japan			507 428/1994	October 2, 1993	Keith March, et al.	
Japan				September 1, 1993	David A. Williams, et al.	

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ISSUED AND PENDING FOREIGN PATENTS						
COUNTRY	PATENT NUMBER	ISSUE DATE	SERIAL NUMBER	FILING DATE	INVENTORS	TITLE
Japan			501799/94	June 15, 1993	George Stookey	
Japan			5-142082	June 14, 1993	Milos Novotny, et al.	
Japan			595429	April 12, 1993	Stefan Surzycki, et al.	
Japan			508789/93	November 6, 1992	Arun Srivastava, et al.	
Japan			4-1510668	May 1, 1992	Marc Muskavitch, et al.	
Japan			508183/1992	February 21, 1992	Keith March, et al.	
Japan			503611/91	January 18, 1991	Martel Zeldin, et al.	
Japan			1213646/85	June 4, 1985	Jerome Kaplan	
Japan			510046/92		Ronald Hoffman, et al.	System and Process for Supporting Hematopoietic Cells
Japan					George Weber	Method for the Treatment of Neoplastic Disease Utilizing Tiazofurin and Ribavirin
Japan					Claire Doerschuk	Anti-IL-8 Monoclonal Antibodies for Treatment of Inflammatory Disorders
Korea			96-701385	March 16, 1996	Byoung Kwon, et al.	
Korea					George Stookey	
Mexico			964240	September 23, 1996	David A. Williams, et al.	Methods for Preventing Dental Calculus in Domestic Animals
Mexico			963773	August 30, 1996	Claire Doerschuk	
Mexico			94 7458	September 28, 1994	George Weber	
Mexico			94 3666	May 17, 1994	George Weber	
Mexico			93-3524	June 14, 1993	George Stookey	
Mexico					David A. Williams, et al.	
Netherlands			91.01775	October 23, 1991	Milos Novotny, et al.	

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COUNTRY	PATENT NUMBER	ISSUE DATE	SERIAL NUMBER	FILING DATE	INVENTORS	TITLE
New Zealand	253927	October 8, 1996			George Stookey	
New Zealand			273838	March 16, 1996	Byoung Kwon, et al.	
New Zealand			266359	May 5, 1994	George Weber	
PCT				June 20, 1997	Qian Xiaotao, et al.	Methods and Compositions Comprising R-ibuprofen
PCT				September 30, 1997	William Martin	Methods and Compositions for Inhibiting Bacterial Growth
PCT				August 28, 1997	Michael Kubek	Novel Pharmacotherapeutic Process and Composition for Central Nervous System Disorders
PCT			PCT/US97/10762	June 20, 1997	Qian Xiaotao, et al.	
PCT			PCT/US97/10078	June 11, 1997	Mark Kelley, et al.	
PCT			PCT/US97/10078	June 11, 1997	Mark Kelley	
PCT			PCT/US97/09160	May 30, 1997	Martin Bard, et al.	
PCT			PCT/US97/08263	May 16, 1997	Scott Trerotola	
PCT			PCT/US97/04595	March 21, 1997	Asok Antony, et al.	
PCT			PCT/US97/03881	March 12, 1997	Keith March	
PCT			PCT/US97/0287	February 15, 1997	Alon Harris, et al.	
PCT			PCT/US96/20622	December 20, 1996	Ora Pescovitz, et al.	
PCT			96/15712	September 30, 1996	David A. Williams, et al.	
PCT			PCT/US96/09852	June 7, 1996	Roger Roeske	
PCT			PCT/US96/07328	May 21, 1996	George Stookey	
PCT			PCT/US96/07225	May 17, 1996	Alon Harris, et al.	
PCT			PCT/US96/03965	March 22, 1996	Byoung Kwon, et al.	
PCT			PCT/US96/01961	February 9, 1996	Yaobin Chen, et al.	
PCT			PCT/US96/01229	January 26, 1996	Slawomir Rubinxztajn, et al.	
PCT			PCT/US96/00397	January 16, 1996	Scott Trerotola, et al.	

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COUNTRY	PATENT NUMBER	ISSUE DATE	SERIAL NUMBER	FILING DATE	INVENTORS	TITLE
PCT			PCT/US95/14321	November 3, 1995	Paul Grieco, et al.	
PCT			PCT/US94/05773	May 18, 1994	Hal Broxmeyer, et al.	
PCT			PCT/US94/04952	May 5, 1994	George Weber	
PCT			PCT/US92/09769	November 6, 1992	Arun Srivastava, et al.	
Portugal			101040	November 6, 1992	Arun Srivastava, et al.	
Russian Federation			96119984	September 26, 1996	David A. Williams, et al.	
Russian Federation					George Weber	Method for the Treatment of Neoplastic Disease Utilizing Tiazofurin and Ribavirin
South Africa	83/4225	March 28, 1984			Mark Putt, et al.	
South Korea			95-705126	November 17, 1995	George Weber	
South Korea			702050/93	November 6, 1992	Arun Srivastava, et al.	
South Korea			96-705-364	March 27, 1995	David A. Williams, et al.	
South Korea			94-704541	June 15, 1993	George Stookey	
Spain	523,624	July 2, 1984			Mark Putt, et al.	
Sweden	0164951	August 1, 1990			Jerome Kaplan	
Taiwan	54546	February 21, 1992			Stefan Surzycki, et al.	
Taiwan	072148	November 3, 1995			George Stookey	
Taiwan			85107820	June 28, 1996	George Stookey	
Taiwan			84105784	June 5, 1995	David A. Williams et al.	
Taiwan					David A. Williams, et al.	Methods for Enhanced Virus-mediated DNA Transfer Using Molecules with Virus- and Cell-Binding
United Kingdom	2,2514,245	October 8, 1994			Milos Novotny, et al.	

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RECORDED: 05/19/2006

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