

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Confirmatory Assignment
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Wake Forest University	07/01/2002
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Wake Forest University Health Sciences
<b>Street Address:</b>	Medical Center Blvd.
<b>City:</b>	Winston-Salem
<b>State/Country:</b>	NORTH CAROLINA
<b>Postal Code:</b>	25157
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	12947232
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(215)563-4044
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
<b>Phone:</b>	215-563-4100
<b>Email:</b>	rdolan@ddhs.com
<b>Correspondent Name:</b>	Niels Haun, Ph.D.
<b>Address Line 1:</b>	1601 Market Street, Suite 2400
<b>Address Line 2:</b>	Dann Dorfman Herrell & Skillman, PC
<b>Address Line 4:</b>	Philadelphia, PENNSYLVANIA 19103
<b>ATTORNEY DOCKET NUMBER:</b>	0101-P01986US6
<b>NAME OF SUBMITTER:</b>	Niels Haun

**Total Attachments: 46**  
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**PATENT**  
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09-15-2003



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PATENTS ONLY

8.22.03

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies)

Attorney Reference No.

Conveying Party(ies)                      Execution Date  
Wake Forest University                      July 1, 2002

Mark if additional names of conveying parties attached

Receiving Party  
WAKE FOREST UNIVERSITY HEALTH SCIENCES  
Medical Center Blvd.  
Winston-Salem, North Carolina 27157                       Mark if additional names of conveying parties attached

Conveyance Type:      ASSIGNMENT

Total No. of Pages of conveyance document( including any attachments)      29

Properties Conveyed       Mark if additional numbers attached

Patent Application No(s).Conveyed	Patent No(s). Conveyed
08/033,633	5,389,070
08/303,455	5,512,592
08/276,955	5,656,588
08/910,064	
09/269,341	
07/792,001	5,645,081
08/028,677	5,636,643
08/467,243	
10/151,481	
09/026,353	
09/863,234	
08/309,359	5,702,419
08/979,433	6,248,128
07/875,249	5,359,637
08/326,332	5,668,844
08/331,352	5,782,762
08/734,427	6,272,366
08/817,901	6,083,162
08/805,584	5,920,319
09/299,061	6,366,800
09/594,383	
09/898,141	
10/109,547	
08/236,501	5,576,287
08/751,268	6,060,446
08/531,123	5,585,396
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 01 FC-80821 2430.00 MA 4090.00 CP

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**PATENT**

**REEL: 026088 FRAME: 0423**

09/107,452	
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09/050,344	6,436,636
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60/147,914	
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10/151,481	

09/812,348	
09/889,465	
09/895,940	
10/270,700	
60/285,317	
60/359,847	
60/338,694	
09/263,995	
60/032,277	
09/423,420	6,451,785
09/602,513	6,524,616

Total Number of Properties Involved

163

If this document is being filed together with a new patent application, enter the date the patent application was signed by the first named executing inventor (mm/dd/yyyy)

Fee Amount

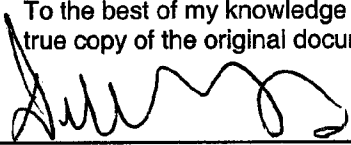
\$4,090 Fee Amount for Properties Listed (37 CFR 3.41)

Method of Payment: Enclosed Check

The Commissioner is Authorized to charge additional fees  
or credit any overpayment to Deposit Account No. 04-1406

Address for Correspondence and Statement

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. Charges to the deposit account are authorized, as indicated herein.



8/19/2003

Date

Donald R. Piper, Jr.  
Reg. No. 29,337  
Dann, Dorfman, Herrell & Skillman  
1601 Market Street, Suite 2400  
Philadelphia, PA 19103

FOR OFFICE USE ONLY



## CONFIRMATORY PATENT ASSIGNMENT

**WHEREAS, WAKE FOREST UNIVERSITY**, a corporation and educational institution organized and existing under and by virtue of the laws of the State of North Carolina, having a principal place of business at 1834 Wake Forest Road, Winston-Salem, North Carolina, hereinafter referred to as ASSIGNOR, is the owner of rights, title and interest for, to and within the United States and Foreign Countries, in and to certain inventions and any and all United States and Foreign Letters Patent for such inventions, and any and all applications for such inventions or patents, including any pending, provisional, continuing or related applications, including continuation-in-part applications, and any and all Letters Patent of the United States or Foreign Countries that may be issued for any and all such applications or inventions, as well as the following United States Letters Patent and applications set forth in Exhibit A.

**WHEREAS, WAKE FOREST UNIVERSITY HEALTH SCIENCES**, a corporation organized and existing under and by virtue of the laws of the State of North Carolina, having a principal place of business at Medical Center Boulevard, Winston-Salem, North Carolina, hereinafter referred to as ASSIGNEE, is desirous of acquiring, in connection with certain other transactions being consummated under an agreement between the parties effective July 1, 2002, all rights, title and interest of ASSIGNOR for, to and within the United States and Foreign Countries, in and to such invention, and any and all United States and Foreign Letters Patent for such inventions, and any and all applications for such inventions or patents, including any pending, provisional, continuing or related applications, including continuation-in-part applications, and any and all Letters Patent of the United States or Foreign Countries that may be issued for any and all such applications or inventions as well as the United States Letters Patent and applications of ASSIGNOR set forth in Exhibit A.

**NOW THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR hereby sells, assigns, transfers, and sets over, and hereby confirms that ASSIGNOR has sold, assigned, transferred and set over, unto ASSIGNEE,

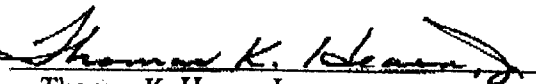
its successors, legal representatives, and assigns, the entire right, title and interest of ASSIGNOR for, to and within the United States and all Foreign Countries in and to such inventions and any and all United States and Foreign Letters Patent for such inventions, and any and all applications for such inventions or patents, including any pending, provisional, continuing or related applications, including continuation-in-part applications, and any and all Letters Patent of the United States or Foreign Countries that may be issued for any and all such applications or inventions, including without limitation, all rights to sue for past, present or future infringement and to recover and retain damages and profits or unpaid royalties for any such inventions, patents or pending applications, or any licenses thereof, whereby the right, title and interest hereby assigned is to be held and enjoyed by ASSIGNEE to the full end of the term for which any said patent or any reissue, reexamination, renewal or extension thereof is or may be granted, as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this sale and Assignment not been made.

And ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States to ASSIGNEE, its successors and assigns, as the owner of all right, title and interest therein.

ASSIGNOR agrees to execute any and all additional documents, instruments, or assignments necessary to effectuate the purpose of this Assignment and to carry this Assignment into full force and effect.

IN WITNESS WHEREOF, this Assignment is effective as of the 1st day of July, 2002.

**ASSIGNOR:  
WAKE FOREST UNIVERSITY**

By:   
Thomas K. Hearn, Jr.  
President


ASSIGNEE:  
WAKE FOREST UNIVERSITY HEALTH  
SCIENCES

By: *Richard H. Dean*  
Richard H. Dean, M.D.  
President

State of North Carolina :  
: ACKNOWLEDGMENT  
County of Forsyth :

I, Johnni S. Bibbins, a Notary Public of the <sup>Davie</sup> County and State aforesaid, certify that Thomas K. Hearn, Jr., President of Wake Forest University, a North Carolina non-profit corporation, personally appeared before me this day and acknowledged the execution of the foregoing instrument on behalf of the corporation.

Witness my hand and official seal or stamp, this 28<sup>th</sup> day of June, 2002.

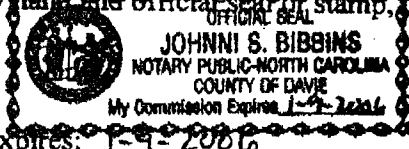
(SEAL)  *Johnni S. Bibbins*  
Notary Public

My Commission Expires: 1-9-2006

State of North Carolina :  
: ACKNOWLEDGMENT  
County of Forsyth :

I, Johnni S. Bibbins, a Notary Public of the <sup>Davie</sup> County and State aforesaid, certify that Richard H. Dean, M.D., as President of WAKE FOREST UNIVERSITY HEALTH SCIENCES, a North Carolina non-profit corporation, personally appeared before me this day and acknowledged the execution of the foregoing instrument on behalf of the corporation.

Witness my hand and official seal or stamp, this 28<sup>th</sup> day of June, 2002.

(SEAL)  *Johnni S. Bibbins*  
Notary Public

My Commission Expires: 1-9-2006

**EXHIBIT A**

Intellectual Property  
Wake Forest University -  
Patents Issued

NO.	OUR FILE	PATENT NO.	TITLE	INVENTOR	DATE ISSUED
1	83-05	4,668,621	Detecting Blood Clotting Factors with Immobilized Fibrinogen and Labeled Fibrinogen	Dr. Geo. Doellgast	11/17/1987
2	83-06	4,706,683	Method and Apparatus for Bolus Delivery of Gases and Aerosols and Insufflations	Dr. Hank Chilton	
3	85-02	4,746,652	Method of Inducing Diuresis with Lyso-phospholipids	Dr. Vardaman Buckalew	05/24/1988
4	88-12	5,614,548	Quaternary Amine Containing Ether Lipid Derivatives and Therapeutic Compositions	Dr. Louis Kucera	03/25/1997
5	88-15	5,645,818	Diagnostic Compositions Comprising a Complex Formed by a Nitrogenous Macrocyclic Ligand With Metal Ions	Dr. Susan Jackels	07/08/1997
6	90-05	5,512,671	Ether Lipid-Nucleoside Covalent conjugates	Dr. Louis Kucera	04/30/1996
7	91-01	5,645,081	Method and Apparatus to Enhance Closure of Wounds	Dr. Louis Argenta	07/08/1997
8	91-01	5,636,643	Method and Apparatus to Enhance Closure of Wounds	Dr. Louis Argenta	06/10/1997
9	91-03	5,214,686	Three-Dimensional Panoramic Dental Radiography Method & Apparatus Which Avoids the Subject's Spine	Dr. Richard Webber	05/25/1993
10	91-04	5,633,235	Tricribrine and Analogs as Antiviral Drugs	Dr. Louis Kucera	05/27/1997
11	91-04	5,827,833	Tricribrine and Analogs as Antiviral Drugs	Dr. Louis Kucera	10/27/1998
12	92-06	5,656,588	Wound Healing Formula	Dr. Gary Zaloga	08/12/1997
13	92-06	5,576,287	Method for Treating Acute Renal Disease and Failure	Dr. Gary Zaloga	11/19/1996
14	92-06	6,060,446	Method and Composition for Treating Renal Disease and Failure	Dr. Gary Zaloga	05/09/2000
15	92-07	5,359,637	Self-Calibrated Tomosynthetic, Radiographic-Imaging System, Method, and Device	Dr. Richard Webber	10/25/1994
16	92-07	5,668,844	Self-Calibrated Tomosynthetic, Radiographic-Imaging System, Method, and Device	Dr. Richard Webber	09/16/1997

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Intellectual Property  
Wake Forest University -  
Patents Issued

17	92-10	5,453,162	Method and Apparatus for Gel Electrophoresis Using Two Electric Fields	Dr. George Holzwarth	09/26/1995
18	92-11	5,342,949	Two-Step Process for Preparing Biologically Active Tropane Derivatives and Starting Material Therefore	Dr. Huw Davies	08/30/1994
19	92-11	5,262,428	Biologically Active Tropane Derivatives	Dr. Huw Davies	02/22/1994
20	92-12	5,227,385	Method for Treatment of Neurodegenerative Diseases	Dr. Wm. Caldwell	07/13/1993
21	92-13	5,389,070	Syringe Apparatus With a Fluid Reservoir for Injection and Aspiration of Fluids	Dr. Robert Morell	02/14/1995
22	92-15	5,288,872	Compounds for Treatment of Neurodegenerative Diseases	Dr. Huw Davies	02/22/1994
23	92-16	5,362,754	Non-Glycopeptide Antimicrobial Agents in Combo With an Anticoagulant, an Antithrombotic or a Chelating Agent	Dr. Robert Sherertz	11/08/1994
24	92-16	5,688,516	Non-Glycopeptide Antimicrobial Agents in Combo With an Anticoagulant, an Antithrombotic or a Chelating Agent	Dr. Robert Sherertz	11/18/1997
25	92-16	6,165,484	EDTA and Other Chelators With or Without Anti-Fungal Antimicrobial Agents for the Prevention and Treatment of Fungal Infections	Dr. Robert Sherertz	12/26/2000
26	92-16	6,267,979	Chelators in Combination with Biocides: Treatment of Microbially Induced Biofilm and Corrosion	Dr. Robert Sherertz	07/31/2001
27	92-20	5,510,342	Method of Lowering Cholesterol	Dr. Scott Washburn	04/23/1996
28	93-01	5,770,584	Method of Treating Hepatitis Virus Infections	Dr. Lou Kucera	06/23/1998
29	93-01	6,030,960	Method of Treating Hepatitis Virus Infections	Dr. Lou Kucera	02/29/2000
30	93-03	5,543,499	DNA Sequence Encoding a Polypeptide with Anti-Tumor Properties	Dr. Gary Brewer	08/06/1996
31	93-09	6,008,227	Process for Locking 5-HT and Dopamine Uptake with Biologically Active Tropane Derivatives	Dr. Huw Davies	12/28/1999

**Intellectual Property  
Wake Forest University -  
Patents Issued**

32	93-13	5,589,358	Ileal Bile Acid Transporter Compositions and Methods	Dr. Paul Dawson	12/31/1996
33	93-13	5,869,265	Ileal Bile Acid Transporter Compositions and Methods	Dr. Paul Dawson	02/09/1999
34	94-05	6,289,235	Method and System for Creating Three-Dimensional Images Using Tomosynthetic Computed Tomography	Dr. Richard Webber	09/11/2001
35	94-07	5,702,419	Expandable Intraluminal Stents	Dr. Joel Berry	12/30/1997
36	94-07	6,248,128	Expandable Intraluminal Stents	Dr. Joel Berry	06/19/2001
37	94-13	5,512,592	Method of Producing Cardiotonic Effect and Improving Cardiac Contractile Function by Administration of Carnosine	Dr. Gary Zaloga	04/30/1996
38	94-13	5,585,396	Method for Prolonging Survival from Heart Failure by Administration of Carnosine	Dr. Gary Zaloga	12/17/1996
39	95-02	5,782,762	Method and System for Producing Interactive Three-Dimensional Renderings of Selected Body Organs Having Hollow Lumens to Enable Simulated Movement Through the Lumen	Dr. David Vining	07/21/1998
40	95-02	5,920,319	Automatic Analysis in Virtual Endoscopy	Dr. David Vining	07/06/1999
41	95-02	6,272,366	Method and System for Producing Interactive Three-Dimensional Renderings of Selected Body Organs Having Hollow Lumens to Enable Simulated Movement Through the Lumen	Dr. David Vining	08/07/2001
42	95-02	6,083,162	Method and System for Producing Interactive Three-Dimensional Renderings of Selected Body Organs Having Hollow Lumens to Enable Simulated Movement Through the Lumen	Dr. David Vining	07/04/2000
43	95-03	5,962,437	Lipid Analogs for Treating Viral Infections	Dr. Lou Kucera	10/05/1999
44	95-06	5,591,854	Hollow Lumens to Enable Stimulated Movement Enantioselective synthesis of Seven-Membered Carbocycles and Tropanes	Dr. Huw Davies	01/07/1997
45	95-09	5,516,528	Dietary Phytoestrogen in Estrogen Replacement Therapy	Dr. Claude L. Hughes	05/14/1996

**Intellectual Property  
Wake Forest University -  
Patents Issued**

46	95-12	6,107,334	Dietary Control of Arachidonic Acid Metabolism	Dr. Floyd Chilton	08/22/2000
47	95-16	5,733,728	Detecting and Treating Heart Failure	Dr. Gary Brewer	03/31/1998
48	96-01	5,760,055	Biologically Active Tropane Derivatives	Dr. Huw Davies	06/02/1998
49	96-01	5,763,455	Biologically Active Tropane Derivatives	Dr. Huw Davies	06/09/1998
50	96-06	5,770,226	Combined Pharmaceutical Estrogen-Androgen-Progestin Oral Contraceptive	Dr. Claude Hughes	06/23/1998
51	96-06	5,962,021	Combined Pharmaceutical Estrogen-Androgen-Progestin Oral Contraceptive	Dr. Claude Hughes	10/05/1999
52	96-06	6,139,873	Combined Pharmaceutical Estrogen-Androgen-Progestin Oral Contraceptive	Dr. Claude Hughes	10/31/2000
53	96-09	6,206,910	Compliant Intraluminal Stents	Dr. Joel Berry	03/27/2001
54	96-18	6,113,877	.Sigma.-2 Receptors as Biomarkers of Tumor Cell Proliferation	Dr. Robert Mach	09/05/2000
55	96-23	5,879,897	Methods and Compositions for the Diagnosis of Extrasophageal Gastric Reflux	Dr. Robert Koufman	03/09/1999
56	97-05	6,028,064	Prevention of Ovarian Cancer by Administration of Progestin Products	Claude L. Hughes, Jr.	02/22/2000
57	97-08	5,719,137	Method of Preventing Neurodegeneration and Cognitive Dysfunction Using 17.alpha.-dihydrodequalenin	Dr. Scott Washburn	02/17/1998
58	97-14	5,942,539	Methods of Treating or Preventing Endometriosis with Phytoestrogens	Dr. Claude Hughes	08/24/1999
59	97-15	5,994,337	Effects of 17.alpha.-Dihydrodequalenin on Plasma, Lipid and Lipoprotein, Glucose, Insulin Concentrations	Dr. Scott Washburn	11/30/1999
60	97-15	6,207,659	Effects of 17.alpha.-dihydrodequalenin on Plasma Lipid and Lipoprotein, Glucose, Insulin Concentrations	Dr. Scott Washburn	03/27/2001



**Intellectual Property  
Wake Forest University -  
Patents Issued**

61	97-15	6,147,069	Effects of 17.alpha.-dihydroergolinenin on Plasma Lipid and Lipoprotein, Glucose, Insulin Concentrations Coronary Artery Vasomotor Function, etc.	Dr. Scott Washburn	11/14/2000
62	97-22	6,132,342	Exercise System Comprising Rocking Chair and Footstool	Dr. William McKinney	10/17/2000
63	98-07	6,013,242	Tropane Derivatives with Selective Binding to the Serotonin Reuptake Transporters for Treatment, etc.	Dr. Huw Davies	01/11/2000
64	98-08	5,952,374	Method for Inhibiting the Development of Alzheimer's Disease and Related Dementias	Dr. Thomas Clarkson	09/14/1999
65	98-14	6,248,744	Method for the Treatment of Pain, Including Chronic and Female Specific Pain	Dr. James Eisenach	06/19/2001
66	98-18	6,350,867	Compositions and Methods for Enhancing Osseous Growth, Repair and Regeneration	Dr. Thomas Hart	02/26/2002
67	98-19	6,126,631	Multi-lumen Catheter System Used in a Blood Treatment Process	Dr. Brian Loggie	10/03/2000
68	98-41	5,962,274	Viral Vector Directed to Predetermined Target Cells	Dr. Griffith Parks	10/05/1999
69	98-47	6,081,577	Method and System for Creating Task-Dependent Three-Dimensional Images	Dr. Richard Webber	06/27/2000
70	99-06	6,221,855	Regulation of Nucleic Acid Expression by Heparan Sulfate and Biological Equivalents Thereof	Dr. William Wagner	04/24/2001
71	99-20	6,264,609	Ultrasound Apparatus and Method for Tissue Characterization	Dr. David Herrington	07/24/2001
72	99-28	6,313,112	Methods of Protecting Neuronal Function	Dr. David Busija	11/06/2001
73	99-30	6,242,478	Five Member Ring Sulfenate Esters and Thiosulfinate Esters	Dr. Mark Walker	06/05/2001

**Intellectual Property  
Wake Forest University -  
Patents Issued**

74	00-08	6,380,447	Diels-Alder Adducts of Epoxybutene and Epoxybutene Derivatives	Dr. Mark Welker	04/30/2002
75	00-13	6,383,817	Cadmium is a Risk Factor for Human Pancreatic Cancer	Dr. Gary Schwartz	05/07/2002
76	00-16	6,366,800	Automatic Analysis in Virtual Endoscopy	Dr. David Vining	04/02/2002
77	01-37	6,201,988	Radiotherapy Treatment Using Medical Axis Transformation	Dr. Daniel Bourland	03/13/2001
78		6,326,366	Hormone Replacement Therapy	Protein Technologies Int.	12/04/2001

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Intellectual Property

Wake Forest University - Patents Applied For

OUR FILE	APPLICATION NO.	TITLE	DATE FILED
91-01	08/467,243	Method and Apparatus to Enhance Closure of Wounds	11/14/91
91-04	09/107,452	Triciribine & Analogs as Anti-Viral Drugs	4/19/91
92-06	08/236,501 08/276,955 08/236,501	Novel Agents (Method and Composition for Treating Reanal Disease and Failure) Novel Agents (Method and Composition for Treating Reanal Disease and Failure) Novel Agents (Method and Composition for Treating Reanal Disease and Failure)	4/29/94 7/19/94 4/29/94
92-11	977,535	Novel Biologically Active Tropane Derivatives	11/17/92
92-11	07/851,090	Novel Biologically Active Tropane Derivatives	3/13/92
93-01	08/074,943	Use of Ether and Ester Phospholipids as Anti-Hepatitis Virus Agents	6/10/93
93-09	08/063,431	Biologically Active Tropane Derivatives in Treatment of Mental Illness	5/18/93
94-05	09/862,006	Method and System for Creating Three-Dimensional Images Using Tomosynthetic Computed Tomography	3/5/98
94-13	08/303,455	Novel Cardiotonic Agents	9/9/94
95-02	08/331,352	Virtual Reality Medical Imaging	10/27/94
95-03	08/297,416	Lipid Analogs for Treating Viral Infections	8/29/94
95-06	08/324,106	Enantioselective Synthesis of Cyclopropane Amino Acids and Tropanes	10/14/94
95-12	09/644,380	Dietary Control of Arachidonic Acid Metabolism	2/23/98
95-16	09/050,344	AUF1, A Regulator of Beta-Adrenergic Receptor Expression Cleaning Contaminants from Contact Lens	3/3/98

PATENT

REEL: 026088 FRAME: 0438

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Intellectual Property

Wake Forest University -- Patents Applied For

95-32	09/011,159	Inhibition of CoA-Independent Transacylase and Apoptosis	7/25/95
96-01	08/874,940 08/589,820	Biologically Active Tropane Derivatives Biologically Active Tropane Derivatives	6/13/97 1/22/96
		Contraceptive Medication	
96-07	08/740,003	Novel Class of TargetedCytotoxic Cells	10/23/96
96-09	09/817,469	Compliant Intraluminal Stents	3/26/01
96-10	08/793,916	Methods of Targeting Microvascular Gene Transfer	2/28/97
96-18	60/013,717 09/528,398 09/142,935 60/200,052	Novel Methods and Ligands for the Diagnosis of Breast Cancer Novel Methods and Ligands for the Diagnosis of Breast Cancer Novel Methods and Ligands for the Diagnosis of Breast Cancer Novel Methods and Ligands for the Diagnosis of Breast Cancer	3/20/96 3/20/00 3/20/00 4/27/01
96-23	08/717,793 09/263,995	Pepsin Assay for Reflux Pepsin Assay for Reflux	9/23/96 3/8/99
97-02	6/029,501	Biospecific Complex Isolation and Measurement Using Haptene Elution from Anti-Heptene Absorbents	10/29/96
97-08	08/753,988	An Agent for Preventing Menopause-Related Degeneration of Neurons	12/3/96
97-09	60/032,277	Novel Method for Prevention and Treatment of HIV-1 Infection	12/2/96
97-21	09/423,420	Beta Lactams as Antiproliferative Agents	5/9/97
97-22	08/936,175	Rocker Science: A Program for Prevention Rehabilitation Using Mechanical Devices	9/24/97

PATENT

REEL: 026088 FRAME: 0439

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Intellectual Property

Wake Forest University – Patents Applied For

98-02	09/602,513	Compositions and Methods for Treating or Preventing Neurodegeneration and Cognitive Decline and Dysfunction Associated with Alzheimer's Disease aging, other Dementia Related Disorders and Estrogen Deficiency Related Disorders	6/23/00
98-07	09/006,915	Tropane Derivatives with Selective Binding to the Serotonin Reuptake Transporters for Treatment of Mental Illness	1/13/98
98-17	09/700,324	Mammalian Genes Encoding 3'-5' Exonuclease	5/22/98
98-19	08/584,716 08/931,579 09/676,363	Multi-Lumen Catheter System Multi-Lumen Catheter System Multi-Lumen Catheter System	1/11/96 9/16/97 9/29/00
98-20	60/132,752	A Genetic Strategy to Process Endogenous Antigens as Exogenous for MCH-H Presentation	5/5/00
	09/566,420	A Genetic Strategy to Process Endogenous Antigens as Exogenous for MCH-H Presentation	5/5/00
	60/132,750	A Genetic Strategy to Process Endogenous Antigens as Exogenous for MCH-H Presentation	5/6/99
98-21	09/646,429	Non-Invasive Method for the Detection of Intracellular Sodium Using Multiple Quantum NMR	3/18/98
98-25	60/078,447	Dynamic Electromyographic Evaluation of Speech and Swallowing Disorders	3/18/98
98-31	09/267,301	Intraoral Controller for Paralyzed Individuals	3/15/99
98-46	09/574,373	Sigma-1 Ligands Useful for Determining the Proliferative Status of Cancer Cells	5/21/99

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Intellectual Property

Wake Forest University – Patents Applied For

98-47	09/561,376	Method and System for Creating Three-Dimensional Images Using Tomographic Compound Tomography	2/19/99
99-09	60/162,290	Compositions and Methods for Double-Targeting Virus Infections and Targeting Cancer Cells	10/20/99
99-13	60/132,752	Compositions and Methods for Identifying Antigens Which Elicit and Immune Response	5/6/99
99-29	09/844,263	Sigma-2 Receptors as Biomarkers of Tumor Cell Proliferation	4/27/01
99-35	60/145,644 60/165,016 10/031,889	Genetic Test for Diagnosis of Periodontal and Dermatological Conditions Genetic Test for Diagnosis of Periodontal and Dermatological Conditions Genetic Test for Diagnosis of Periodontal and Dermatological Conditions	7/27/99 11/12/99 1/25/02
00-08	09/591,587	Diols-Alder Adducts of Epoxybutene and Epoxybutene Derivatives	6/9/00
00-10	60/195,014	Inhaler Dispensing System for Laryngectomized Subjects and Associated Methods	4/6/00
00-13	60/173,760	A Method for Detecting Individuals at Increased Risk for Pancreatic Cancer	12/30/99
00-16	60/147,914 09/635,515 09/990,090 60/109,966	Automatic Analysis in Virtual Endoscopy Automatic Analysis in Virtual Endoscopy Automatic Analysis in Virtual Endoscopy Automatic Analysis in Virtual Endoscopy	8/9/99 8/9/00 11/21/01 11/25/98
00-17	09/777,155	Method of Treating Lung Disorders	2/4/00
00-20	60/266,287 60/572,683	Methods of Screening Neurodegenerative Disorders Methods of Screening Neurodegenerative Disorders	5/16/00 5/16/00

PATENT

REEL: 026088 FRAME: 0441

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Intellectual Property

Wake Forest University - Patents Applied For

00-25	09/904,106	Novel Isomers of 15-Deoxy-Delta <sup>12</sup> , 14 Prostaglandin J2 With Potent Antimicrobial and PPAP Gamma Ligand Activity	7/11/00
00-27	09/634,137	Mammalian Genes Encoding 3'-5' Exonuclease, 11h Genomic Nucleotide and Amino Acid Sequence	8/10/99
00-31	09/885,894	Truncated Apolipoprotein B-Containing Lipoprotein Particles for Delivery of Compounds to Tissues or Cells	6/20/01
01-02	09/718,195 Filed CIP I	Method of Treating Autoimmune Diseases	11/21/00 5/20/02
01-05	09/652,292	GLUT 10: A Novel Glucose Transport in the Type 2 Diabetes Lined Region of Chromosome 20q12-13.1	8/31/00
01-07	09/812,348	MAP-2 As A Determinant of Metastatic Potential	3/20/01
01-11	09/889,465	Branched Chain Amino Acid-Dependent Aminotransferase Inhibitors and their Use in the Treatment of Diabetic Retinopathy	7/17/01
01-19	09/895,940	Adenovirus E4 Protein Variants for Virus Production	6/29/01
01-23	10/270,700	Genetic Polymorphisms of Estrogen Receptor- $\alpha$ Associated with Favorable HDL Cholesterol Response to Hormone Replacement Therapy	2/22/01
01-25	60/285,317	Use of the Flavonoid Chemopreventative Agent Garfeic Acid Phenethyl Ester as a Radiation Sensitizer	4/20/01
02-06	60/359,847	Angiotensin (1-7) Inhibition of Cancer Cell Growth	2/27/02
02-11	60/338,694	M Protein Mutants of Vesicular Stomatitis Virus	11/13/01

PATENT

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**Intellectual Property**  
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Patent Report by Invention						Printed: 06/28/2002	Page 1
COUNTRY	REFERENCE#	TYPE	FILED	SERIAL#	ISSUED	PATENT#	STATUS
<b>SYRINGE APPARATUS</b>							
Inventors Morell							
UNITED STATES	P00121US0	NEW	03/16/1993	08/033,633	02/14/1995	5,389,070	ISSUED
	08/14/2002	2ND MAINT FEE DUE					
<b>METHODS OF PRODUCING CARDIOTONIC EFFECT &amp; IMPROVING CARDIAC CONTRACTION</b>							
Inventors Zaloga, Gary; Roberts, Pamela							
UNITED STATES	P00122US0	NEW	09/09/1994	08/303,455	04/30/1996	5,512,592	ISSUED
	10/30/2003	2ND MAINT FEE DUE					
WIPO	P00122WO1	CEQ	08/14/1995	PCT/US95/10321			PUBLISHED
<b>METHOD AND COMPOSITION FOR TREATING RENAL DISEASE</b>							
Inventors Zaloga, Gary; Roberts, Pamela							
CANADA	P00311CA0	NEW	04/26/1995	2,189,070			ABANDONED
<b>METHOD AND COMPOSITION FOR TREATING RENAL DISEASE</b>							
Inventors Zaloga, Gary; Roberts, Pamela							
EUROPEAN PATENT	P00312EP0	NEW	04/26/1995	95916492.2			ABANDONED
<b>METHOD AND COMPOSITION FOR TREATING RENAL DISEASE</b>							
Inventors Zaloga, Gary; Roberts, Pamela							
JAPAN	P00313JP0	NEW	04/26/1995	528346/1995			ABANDONED
<b>WOUND HEALING FORMULA</b>							
Inventors Zaloga, Gary; Roberts, Pamela							
CANADA	P00513CA0	DCA	07/19/1995	2,195,120			ABANDONED
UNITED STATES	P00513US0	NEW	07/19/1994	08/276,955	08/12/1997	5,656,588	ISSUED
	02/12/2005	2ND MAINT FEE DUE					
UNITED STATES	P00513US2	DIV	08/12/1997	08/910,064			ABANDONED
WIPO	P00513WO1	CEQ	07/19/1995	PCT/US95/08834			PUBLISHED
<b>PASSIVE JOINT MOVEMENT DEVICE AND METHOD FOR USING THE SAME</b>							
Inventors Argenta, Louis C.; Morykwas, Michael J.							
CANADA	P00569CA0	DCA	09/25/1997	2,267,312			PENDING
	09/25/2002	ANNUITY DUE					
EUROPEAN PATENT	P00569EP0	DCA	09/25/1997	97943587.2			PENDING
	09/25/2002	ANNUITY DUE					
JAPAN	P00569JP0	DCA	09/25/1997	10-515917			PENDING
	09/25/2004	REQUEST EXAMINATION					
UNITED STATES	P00569US0	NEW	09/26/1996	60/026,663			EXPIRED
UNITED STATES	P00569US1	DCA	09/27/1999	09/269,341			PENDING
WIPO	P00569WO0	CEQ	09/25/1997	PCT/US97/17252			PUBLISHED



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Patent Report by Invention				Printed: 06/28/2002		Page	2
COUNTRY	REFERENCE#	TYPE	FILED	SERIAL#	ISSUED	PATENT#	STATUS
<i>Next Action Due</i>							
<b>METHOD OF TREATING TISSUE DAMAGE &amp; APPARATUS FOR SAME</b>							
Inventors Argenta, Louis C.; Morykwas							
AUSTRIA	P00636AT0 11/30/2002	DCA ANNUITY DUE	11/12/1992	92925128.8	03/18/1998	E164055	ISSUED
AUSTRIA	P00636AT1 03/07/2003	DCA ANNUITY DUE	03/07/1994	94910858.3	09/13/2000	0 688 189	ISSUED
AUSTRALIA	P00636AU0 11/12/2002	DCA ANNUITY DUE	11/12/1992	31303/93	05/06/1997	674837	ISSUED
AUSTRALIA	P00636AU1 03/07/2003	DCA ANNUITY DUE	03/07/1994	63608/94	12/10/1998	696031	ISSUED
BELGIUM	P00636BE0 11/30/2002	CEQ ANNUITY DUE	11/12/1992	92925128.8	03/18/1998	0,620,720	ISSUED
BELGIUM	P00636BE1 03/07/2003	DCA ANNUITY DUE	03/07/1994	94910858.3	09/13/2000	0 688 189	ISSUED
CANADA	P00636CA0 11/12/2002	CEQ ANNUITY DUE	11/12/1992	2,121,688	07/31/2001	2,121,688	ISSUED
CANADA	P00636CA1 07/12/2002	DCA RESPONSE TO OA	03/07/1994	2,157,772			PENDING
SWITZERLAND	P00636CH0 11/30/2002	DCA ANNUITY DUE	11/12/1992	92925128.8	03/18/1998	0,620,720	PENDING
SWITZERLAND	P00636CH1 03/07/2003	DCA ANNUITY DUE	03/07/1994	94910858.3	09/13/2000	0 688 189	ISSUED
GERMANY	P00636DE0 11/12/2002	DCA ANNUITY DUE	11/12/1992	69224847.1-08	03/18/1998	69224847.1	ISSUED
GERMANY	P00636DE1	DCA	11/12/1992	9219136.3	06/18/1998	9219136.3	ISSUED
GERMANY	P00636DE2 03/07/2003	DCA ANNUITY DUE	03/07/1994	94910858.3		69425881	ISSUED
DENMARK	P00636DK0 11/30/2002	DCA ANNUITY DUE	11/12/1992	92925128.8	03/18/1998	0,620,720	PENDING
DENMARK	P00636DK1 03/07/2003	DCA ANNUITY DUE	03/07/1994	94910858.3	09/13/2000	0 688 189	ISSUED
EUROPEAN PATENT	P00636EP0	DCA	11/12/1992	92925128.8	03/18/1998	0,620,720	ISSUED
EUROPEAN PATENT	P00636EP1	DCA	03/07/1994	94910858.3	09/13/2000	0 688 189	ISSUED
SPAIN	P00636ES0 11/30/2002	DCA ANNUITY DUE	11/12/1992	2114956	03/18/1998	0,620,720	ISSUED
SPAIN	P00636ES1 03/07/2003	DCA ANNUITY DUE	03/07/1994	94910858.3	09/13/2000	2151925	ISSUED
FRANCE	P00636FR0 11/30/2002	DCA ANNUITY DUE	11/12/1992	92925128.8	03/18/1998	0,620,720	PENDING
FRANCE	P00636FR1 03/07/2003	DCA ANNUITY DUE	03/07/1994	94910858.3	09/13/2000	0 688 189	ISSUED

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COUNTRY	REFERENCE#	TYPE	FILED	SERIAL#	ISSUED	PATENT#	STATUS
	<i>Next Action Due</i>						
METHOD OF TREATING TISSUE DAMAGE & APPARATUS FOR SAME continued . . .							
UNITED KINGDOM	P00636GB0	DCA	11/12/1992	92925128.8	03/18/1998	0,620,720	PENDING
	11/12/2002	ANNUITY DUE					
UNITED KINGDOM	P00636GB1	DCA	03/07/1994	94910858.3	09/13/2000	0 688 189	ISSUED
	03/07/2003	ANNUITY DUE					
GREECE	P00636GR0	DCA	11/12/1992	92925128.8	03/18/1998	3,026,906	ISSUED
	11/30/2002	ANNUITY DUE					
GREECE	P00636GR2	DCA	03/07/1994	94910858.3	09/13/2000	3034917	ISSUED
	03/07/2003	ANNUITY DUE					
IRELAND	P00636IE0	DCA	11/12/1992	92925128.8	03/18/1998	E79383	ISSUED
	11/30/2002	ANNUITY DUE					
IRELAND	P00636IE1	DCA	03/07/1994	94910858.3	09/13/2000	0 688 189	ISSUED
	03/07/2003	ANNUITY DUE					
ITALY	P00636IT0	DCA	11/12/1992	92925128.8	03/18/1998	0,620,720	PENDING
	11/30/2002	ANNUITY DUE					
ITALY	P00636IT1	CEQ	03/07/1994	94910858.3		0 688 189	ISSUED
	03/07/2003	ANNUITY DUE					
JAPAN	P00636JP0	CEQ	11/12/1992	509,351/1993			PENDING
JAPAN	P00636JP1	DCA	03/07/1994	520219/1994			PENDING
SOUTH KOREA	P00636KR0	DCA	11/12/1992	94-701594	09/15/2000	274726	ISSUED
	09/15/2003	ANNUITY DUE					
LUXEMBOURG	P00636LU0	DCA	11/12/1992	92925128.8	03/18/1998	0,620,720	PENDING
	11/12/2002	ANNUITY DUE					
LUXEMBOURG	P00636LU1	DCA	03/07/1994	94910858.3	09/13/2000	0 688 189	ISSUED
	03/07/2003	ANNUITY DUE					
MONACO	P00636MC0	DCA	11/12/1992	92925128.8	03/18/1998	0,620,720	PENDING
	11/30/2002	ANNUITY DUE					
MONACO	P00636MC1	DCA	03/07/1994	94910858.3	09/13/2000	0 688 189	ISSUED
	03/07/2003	ANNUITY DUE					
NETHERLANDS	P00636NL0	DCA	11/12/1992	92925128.8	03/18/1998	0,620,720	PENDING
	11/30/2002	ANNUITY DUE					
NETHERLANDS	P00636NL1	DCA	03/07/1994	94910858.3	09/13/2000	0 688 189	ISSUED
	03/07/2003	ANNUITY DUE					
PORTUGAL	P00636PT1	DCA	03/07/1994	94910858.3	09/13/2000	0 688 189	ISSUED
	03/07/2003	ANNUITY DUE					
SWEDEN	P00636SE0	DCA	11/12/1992	92925128.8	03/18/1998	0,620,720	PENDING
	11/30/2002	ANNUITY DUE					
SWEDEN	P00636SE1	DCA	03/07/1994	94910858.3	09/13/2000	0 688 189	ISSUED
	03/07/2003	ANNUITY DUE					
UNITED STATES	P00636US0	NEW	11/14/1991	07/792,001	07/08/1997	5,645,081	ISSUED
	01/08/2005	2ND MAINT FEE DUE					

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COUNTRY	REFERENCE#	TYPE	FILED	SERIAL#	ISSUED	PATENT#	STATUS
<i>Next Action Due</i>							
<b>METHOD OF TREATING TISSUE DAMAGE &amp; APPARATUS FOR SAME continued...</b>							
UNITED STATES	P00636US1	CIP	03/09/1993	08/028,677	06/10/1997	5,636,643	ISSUED
	12/10/2004	2ND MAINT FEE DUE					
UNITED STATES	P00636US2	CIP	06/06/1995	08/467,243			ABANDONED
UNITED STATES	P00636US3	CON	02/19/1998	09/026,353			PENDING
UNITED STATES	P00636US4	CON	05/23/2001	09/863,234			PUBLISHED
WIPO	P00636WO0	CEQ	11/12/1992	PCT/US92/09649			PUBLISHED
WIPO	P00636WO1	CEQ	03/07/1994	PCT/US94/02409			PUBLISHED
<b>EXPANDABLE, INTRALUMINAL STENTS</b>							
Inventors Berry, Joel L.; Ferrario, Carlos M.; Newman, Virginia S.							
CANADA	P00655CA0	DCA	08/30/1995	2,200,489			ABANDONED
UNITED STATES	P00655US0	NEW	09/21/1994	08/309,359	12/30/1997	5,702,419	ISSUED
	06/30/2005	2ND MAINT FEE DUE					
UNITED STATES	P00655US1	CON	11/26/1997	08/979,433	06/19/2001	6,248,128	ISSUED
	02/19/2003	BROADENED REISSUE DL					
WIPO	P00655WO0	CEQ	08/30/1995	PCT/US95/10931			PUBLISHED
<b>SELF-CALIBRATED, TOMOSYNTHETIC, RADIOGRAPHIC-IMAGING SYSTEM, METHOD AND DEVICE</b>							
Inventors Webber, Richard							
AUSTRALIA	525600	DCA	04/23/1993	41158/93	02/04/1999	697905	ABANDONED
AUSTRALIA	P00714AU1	DIV	04/23/1993	94118/98	01/03/2002	738399	ABANDONED
CANADA	P00714CA0	DCA	04/23/1993	2,134,213			PENDING
	04/23/2003	ANNUITY DUE					
GERMANY	P00714DE0	DCA	04/23/1993	93910783.5		69330948.2	ISSUED
	04/23/2003	ANNUITY DUE					
EUROPEAN PATENT	P00714EP0	DCA	04/23/1993	93910783.5	10/17/2001	0,638,224	ISSUED
FRANCE	P00714FR0	DCA	04/23/1993	93910783.5	10/17/2001	0,638,224	ISSUED
	04/23/2003	ANNUITY DUE					
UNITED KINGDOM	P00714GB0	DCA	04/23/1993	93910783.5	10/17/2001	0,638,224	ISSUED
	04/23/2003	ANNUITY DUE					
ITALY	P00714IT0	DCA	04/23/1993	93910783.5	10/17/2001	0,638,224	ISSUED
	04/23/2003	ANNUITY DUE					
JAPAN	P00714JP0	CEQ	04/23/1993	5-519423			PENDING
SWEDEN	P00714SE0	DCA	04/23/1993	93910783.5	10/17/2001	0,638,224	ISSUED
	04/23/2003	ANNUITY DUE					
UNITED STATES	P00714US0	NEW	04/28/1992	07/875,249	10/25/1994	5,359,637	ISSUED
	04/25/2006	3RD MAINT FEE DUE					
UNITED STATES	P00714US1	DCA	10/20/1994	08/326,332	09/16/1997	5,668,844	ISSUED
	03/16/2005	2ND MAINT FEE DUE					

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	<i>Next Action Due</i>						
<i>SELF-CALIBRATED, TOMOSYNTHETIC, RADIOGRAPHIC-IMAGING SYSTEM, METHOD AND DEVICE continued...</i>							
WIPO	P00714WO1	CEQ	04/23/1993	PCT/US93/03873			PUBLISHED

**METHOD AND SYSTEM FOR PRODUCING INTERACTIVE, THREE-DIMENSIONAL RENDERINGS OF SELECTED BODY ORGANS HAVING HOLLOW LUMENS TO ENABLE SIMULATED MOVEMENT THROUGH THE LUMEN**

Inventors	COUNTRY	REFERENCE#	TYPE	FILED	SERIAL#	ISSUED	PATENT#	STATUS
Vining, David J.	AUSTRALIA	P00795AU0 10/27/2002	DCA ANNUITY DUE	10/27/1995	41380/96	09/23/1999	706280	ISSUED
	CANADA	P00795CA0 10/27/2002	DCA ANNUITY DUE	10/27/1995	2,202,401			PENDING
	EUROPEAN PATENT	P00795EP0 10/27/2002	DCA ANNUITY DUE	10/27/1995	95939644.1			PENDING
	JAPAN	P00795JP0 10/27/2002	DCA REQUEST EXAMINATION	10/27/1995	8-514803			PENDING
	UNITED STATES	P00795US0 01/21/2006	NEW 2ND MAINT FEE DUE	10/27/1994	08/331,352	07/21/1998	5,782,762	ISSUED
	UNITED STATES	P00795US1 04/07/2003	CON BROADENED REISSUE DL	10/16/1996	08/734,427	08/07/2001	6,272,366	ISSUED
	UNITED STATES	P00795US2 01/04/2004	CIP 1ST MAINT FEE DUE	04/28/1997	08/817,901	07/04/2000	6,083,162	ISSUED
	UNITED STATES	P00795US3 01/06/2003	CIP 1ST MAINT FEE DUE	02/25/1997	08/805,584	07/06/1999	5,920,319	ISSUED
	UNITED STATES	P00795US4 12/02/2003	CON BROADENED REISSUE DL	04/23/1999	09/299,061	04/02/2002	6,366,800	ISSUED
	UNITED STATES	P00795US5	CON	06/15/2000	09/594,383			PENDING
	UNITED STATES	P00795US6	CON	07/03/2001	09/898,141			PUBLISHED
	UNITED STATES	P00795US7 06/26/2002	CON MISSING PARTS (2 MO)	03/28/2002	10/109,547			PENDING
	WIPO	P00795WO0	CEQ	10/27/1995	PCT/US95/14022			PUBLISHED

**AUTOMATIC ANALYSIS IN VIRTUAL ENDOSCOPY**

Inventors	COUNTRY	REFERENCE#	TYPE	FILED	SERIAL#	ISSUED	PATENT#	STATUS
Vining, David J.	AUSTRALIA	P00861AU0 09/01/2002	DCA SEARCH RESULTS DUE	02/23/1998	61804/98	05/02/2002	742919	ISSUED
	AUSTRALIA	P00861AU1 02/23/2003	DIV ANNUITY DUE	02/23/1998	95132/01			PENDING
	CANADA	P00861CA0 02/23/2003	DCA ANNUITY DUE	02/23/1998	2,278,672			PENDING
	EUROPEAN PATENT	P00861EP0 02/23/2003	DCA ANNUITY DUE	02/23/1998	98906631.1			PENDING
	JAPAN	P00861JP0	DCA	02/23/1998	536928/1998			PENDING

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COUNTRY	REFERENCE#	TYPE	FILED	SERIAL#	ISSUED	PATENT#	STATUS
<i>Next Action Due</i>							
<b>AUTOMATIC ANALYSIS IN VIRTUAL ENDOSCOPY continued...</b>							
WIPO	P00861WO0	CEQ	02/23/1998	PCT/US98/03427			PUBLISHED
<b>METHOD AND COMPOSITION FOR TREATING RENAL DISEASE AND FAILURE</b>							
Inventors Zaloga, Gary; Roberts, Pamela							
UNITED STATES	P00868US0	NEW	04/29/1994	08/236,501	11/19/1996	5,576,287	ISSUED
	05/19/2004	2ND MAINT FEE DUE					
UNITED STATES	P00868US2	DIV	11/18/1996	08/751,268	05/09/2000	6,060,446	ISSUED
	11/09/2003	1ST MAINT FEE DUE					
WIPO	P00868WO1	CEQ	04/26/1995	PCT/US95/05120			PUBLISHED
<b>METHODS OF PRODUCING CARDIOTONIC EFFECT AND IMPROVING CARDIAC CONTRACTILE FUNCTION BY ADMINISTRATION OF CARNOSINE</b>							
Inventors Zaloga, Gary; Roberts, Pamela							
UNITED STATES	P01150US0	NEW	09/20/1995	08/531,123	12/17/1996	5,585,396	ISSUED
	06/17/2004	2ND MAINT FEE DUE					
<b>POLARIZATION MODULATION DIFFERENTIAL INTERFERENCE CONTRAST MICROSCOPY</b>							
Inventors Holzwarth, George M.							
UNITED STATES	P01187US0	NEW	04/18/1997	60/044,678			EXPIRED
<b>EXERCISE SYSTEM COMPRISING ROCKING CHAIR AND FOOTSTOOL</b>							
Inventors McKinney, William; Barnes, Ralph							
UNITED STATES	P01507US0	NEW	09/24/1997	08/936,175	10/17/2000	6,132,342	ISSUED
	10/17/2002	BROADENED REISSUE DL					
UNITED STATES	P01507US1	CON	10/16/2000	09/690,124			PENDING
	07/18/2002	RESPONSE TO OA (1MO)					
<b>COMPLIANT INTRALUMINAL STENTS</b>							
Inventors Berry, Joel L.; Moore, James							
CANADA	P01534CA0	DCA	09/10/1998	2,311,286			PENDING
	09/10/2002	ANNUITY DUE					
EUROPEAN PATENT	P01534EP0	DCA	09/10/1998	98948129.6			PENDING
	09/10/2002	ANNUITY DUE					
UNITED STATES	P01534US0	NEW	09/11/1997	08/927,907	03/27/2001	6,206,910	ISSUED
	11/27/2002	BROADENED REISSUE DL					
UNITED STATES	P01534US1	CON	03/26/2001	09/817,469			PUBLISHED
WIPO	P01534WO0	CEQ	09/10/1998	PCT/US98/18815			PUBLISHED
<b>IMPROVED IMPLANTABLE BIOMATERIALS, COMPOSITIONS AND METHODS FOR THEIR PREPARATION AND USES THEREOF</b>							
Inventors Sane, David							
UNITED STATES	P01542US0	NEW	03/18/1998	60/078,398			EXPIRED
WIPO	P01542WO0	CEQ	03/18/1999	PCT/US99/05967			PUBLISHED

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COUNTRY	REFERENCE#	TYPE	FILED	SERIAL#	ISSUED	PATENT#	STATUS
<b>METHOD FOR THE TREATMENT OF FEMALE-SPECIFIC PAIN</b>							
Inventors Eisenach, J.C.							
BRAZIL	P01543BR0 02/24/2003	DCA ANNUITY DUE	02/24/1999	PI 9908190-3			PENDING
CANADA	P01543CA0 02/24/2003	DCA ANNUITY DUE	02/24/1999	2,321,991			PENDING
EUROPEAN PATENT	P01543EP0 02/24/2003	DCA ANNUITY DUE	02/24/1999	99936030.8			PUBLISHED
JAPAN	P01543JP0 02/24/2006	DCA REQUEST EXAMINATION	02/24/1999	2000-533119			PENDING
SOUTH KOREA	P01543KR0 02/24/2004	DCA REQUEST EXAMINATION	02/24/1999	10-20007009370			PENDING
MEXICO	P01543MX0 02/24/2004	DCA ANNUITY DUE	08/24/2000	00/06273			PENDING
UNITED STATES	P01543US0	NEW	02/24/1998	60/075,794			EXPIRED
UNITED STATES	P01543US1 02/19/2003	DCA BROADENED REISSUE DL	10/05/2000	09/622,675	06/19/2001	6,248,744	ISSUED
WIPO	P01543WO0	CEQ	02/24/1999	PCT/US99/03896			PUBLISHED
<b>COMPOSITIONS AND METHODS FOR ENHANCING OSSEOUS GROWTH, REPAIR AND REGENERATION</b>							
Inventors Hart, Thomas; Price, Jennifer							
UNITED STATES	P01544US0 10/26/2003	NEW BROADENED REISSUE DL	02/27/1998	09/031,962	02/26/2002	6,350,867	ISSUED
WIPO	P01544WO0	CEQ	02/26/1999	PCT/US99/04237			PUBLISHED
<b>MULTI-LUMEN CATHETER SYSTEM USED IN A BLOOD TREATMENT PROCESS</b>							
Inventors Loggie, Brian							
CANADA	P01578CA0	DCA	03/31/1995	2,187,027			ABANDONED
EUROPEAN PATENT	P01578EP0	DCA	03/31/1995	95916919.4			ABANDONED
JAPAN	P01578JP0	DCA	03/31/1995	7-525857			ABANDONED
UNITED STATES	P01578US0	NEW	04/04/1994	08/222,297			ABANDONED
UNITED STATES	P01578US1	R62	01/11/1996	08/584,716			ABANDONED
UNITED STATES	P01578US2 09/03/2002	R62 BROADENED REISSUE DL	09/16/1997	08/931,579	10/03/2000	6,126,631	ISSUED
UNITED STATES	P01578US3	CON	09/29/2000	09/676,363			PENDING
WIPO	P01578WO0	CEQ	03/31/1995	PCT/US95/03995			PUBLISHED
<b>METHOD AND SYSTEM FOR CREATING THREE-DIMENSIONAL IMAGES USING TOMOSYNTHETIC COMPUTED TOMOGRAPHY</b>							
Inventors Webber, Richard; Horton, Roger							
CANADA	P01601CA0 02/26/2003	DCA ANNUITY DUE	02/26/1999	2,322,462			PENDING

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COUNTRY	REFERENCE#	TYPE FILED	SERIAL#	ISSUED	PATENT#	STATUS
<i>Next Action Due</i>						
<b>METHOD AND SYSTEM FOR CREATING THREE-DIMENSIONAL IMAGES USING TOMOSYNTHETIC COMPUTED</b>						
EUROPEAN PATENT	P01601EP0 02/26/2003	DCA ANNUITY DUE	02/26/1999	99909697.7		PENDING
JAPAN	P01601JP0 02/26/2006	DCA REQUEST EXAMINATION	02/26/1999	2000-534116		PENDING
UNITED STATES	P01601US0 05/11/2003	NEW BROADENED REISSUE DL	03/05/1998	09/034,922	09/11/2001 6,289,235	ISSUED
UNITED STATES	P01601US1 07/11/2002	CON RESPONSE TO OA	05/21/2001	09/862,006		PUBLISHED
WIPO	P01601W00	CEQ	02/26/1999	PCT/US99/04435		PUBLISHED
<b>DETECTING AND TREATING HEART FAILURE</b>						
Inventors Port, J. David; Brewer, Gary						
UNITED STATES	P01648US0 09/30/2005	NEW 2ND MAINT FEE DUE	08/18/1995	08/516,545	03/31/1998 5,733,728	ISSUED
UNITED STATES	P01648US1	CON	03/30/1998	09/050,344		PENDING
<b>NONLINEAR ALGORITHM FOR TASK-SPECIFIC TOMOSYNTHETIC IMAGE RECONSTRUCTION</b>						
Inventors Webber, Richard						
UNITED STATES	P01692US0	NEW	07/24/1998	60/095,463		EXPIRED
UNITED STATES	P01692US1 12/27/2003	FCA 1ST MAINT FEE DUE	02/19/1999	09/252,632	06/27/2000 6,081,577	ISSUED
UNITED STATES	P01692US2 07/04/2002	CIP RESTRICTION REQUIRE	04/28/2000	09/561,376		PENDING
WIPO	P01692W00	CEQ	07/22/1999	PCT/US99/16618		PUBLISHED
<b>SURGICAL TRAINING DEVICE FOR USE WITH PERSONAL COMPUTERS</b>						
Inventors Westcott, Carl						
UNITED STATES	P01737US0	NEW	10/01/1998	60/102,632		EXPIRED
<b>DNA SEQUENCE ENCODING A POLYPEPTIDE WITH ANTI-TUMOR PROPERTIES</b>						
Inventors Brewer, Gary						
UNITED STATES	P01754US0 02/06/2004	NEW 2ND MAINT FEE DUE	10/29/1993	08/146,421	08/06/1996 5,543,499	ISSUED
UNITED STATES	042500	RIS	08/06/1998	09/130,263		ABANDONED
<b>VIRTUAL ENDOSCOPY WITH IMPROVED IMAGE SEGMENTATION AND A LESION DETECTION</b>						
Inventors Vining, David J.; Hunt, Gordon; Ahn, David; Stetts, David; Ge, Yaorong; Hemler, Paul; Salido, Tiffany						
AUSTRALIA	P01789AU0 01/30/2003	DCA OFFICIAL REPORT	11/24/1999	15263/00		PENDING
CANADA	P01789CA0 11/24/2002	DCA ANNUITY DUE	11/24/1999	2,352,671		PENDING
EUROPEAN PATENT	P01789EP0 11/24/2002	DCA ANNUITY DUE	11/24/1999	99957586.3		PENDING
UNITED STATES	P01789US0	NEW	11/25/1998	60/109,966		EXPIRED



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<i>Next Action Due</i>							
<b>VIRTUAL ENDOSCOPY WITH IMPROVED IMAGE SEGMENTATION AND LESION DETECTION continued . . .</b>							
UNITED STATES	P01789US1	DCA	05/23/2001	09/856,683			PENDING
WIPO	P01789WO0	CEQ	11/24/1999	PCT/US99/28030			PUBLISHED
<b>GENETIC TEST FOR DIAGNOSIS OF PERIDONTAL AND DERMATOLOGICAL CONDITIONS</b>							
Inventors Hart, Thomas							
UNITED STATES	P01973US0	NEW	07/27/1999	60/145,644			EXPIRED
UNITED STATES	P01973US1	DCA	01/25/2002	10/031,889			PENDING
WIPO	P01973WO0	CEQ	07/27/2000	PCT/US00/20400			PUBLISHED
<b>METHOD AND COMPUTER-IMPLEMENTED PROCEDURE FOR CREATING ELECTRONIC, MULTIMEDIA REPORTS</b>							
Inventors Vining, David J.							
AUSTRALIA	P01982AU0 08/09/2005	DCA ANNUITY DUE	08/09/2000	69000/00			PENDING
BRAZIL	P01982BR0 08/09/2002	DCA ANNUITY DUE	08/09/2000	PI 0013268-3			PENDING
CANADA	P01982CA0 08/09/2002	DCA ANNUITY DUE	08/09/2000	N/A			PENDING
CHINA	P01982CN0 08/09/2002	DCA REQUEST EXAMINATION	08/09/2000	00814064.2			PENDING
EUROPEAN PATENT	P01982EP0 08/09/2002	DCA ANNUITY DUE	08/09/2000	00957368.4			PUBLISHED
JAPAN	P01982JP0 08/09/2003	DCA REQUEST EXAMINATION	08/09/2000	2001-516127			PENDING
UNITED STATES	P01982US0	NEW	08/09/1999	60/147,914			EXPIRED
UNITED STATES	P01982US1	FCA	08/09/2000	09/635,515			PENDING
UNITED STATES	P01982US2 09/21/2002	CIP FOREIGN FILING LTR	11/21/2001	09/990,090			PENDING
WIPO	P01982WO0	CEQ	08/09/2000	PCT/US00/21883			PUBLISHED
<b>AN ULTRASOUND APPARATUS AND METHOD FOR TISSUE CHARACTERIZATION</b>							
Inventors Herrington, David; Fan, Liexiang; Santago, Peter							
UNITED STATES	P02004US0 03/24/2003	NEW BROADENED REISSUE DL	09/15/1999	09/396,153	07/24/2001	6,264,609	ISSUED
<b>METHODS AND COMPOSITIONS FOR DIAGNOSING PALMOPLANTAR KERATODERMAS AND DYSPLASIAS AND OTHER PERIODERMAS DISEASES</b>							
Inventors Hart, Thomas							
UNITED STATES	P02070US0	NEW	11/12/1999	60/165,016			PENDING
<b>DIRECTE TISSUE GROWTH EMPLOYING REDUCED PRESSURE</b>							
Inventors Argenta, Louis C.; Morykwas, Michael J.; Webb, Lawrence							
UNITED STATES	P02915US0 09/03/2002	NEW INF DISCLOSURE STMT	06/03/2002	10/161,076			PENDING

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		WAKE FOREST UNIVERSITY FOREIGN PATENTS				
OUR FILE	TITLE	INVENTOR	COUNTRY	PATENT NO.	DATE ISSUED	
90-02	Method of Treatment with HSP70	Michael Tytell	Australia	659085	08/29/1995	
90-05	Ether Lipid-Nucleoside Covalent Conjugates	Louis Kucera	Europe	533825	04/24/1996	
			Australia	660417	10/16/1995	
			Austria	EP/0533825	04/24/1996	
			Belgium	EP/0533825	04/24/1996	
			Italy	EP/0533825	04/24/1996	
			France	EP/0533825	04/24/1996	
			Germany	EP/0533825	04/24/1996	
			United Kingdom	EP/0533825	04/24/1996	
			Great Britain	EP/0533825	04/13/1996	
91-01	Method and Apparatus to Enhance Closure of Wounds	Louis Argenta	Korea	274726	09/15/2000	
			Germany	69425881.41	09/13/2000	
			European	620720	03/18/1998	
			Australia	674,837	05/06/1997	
			Austria	E164055	03/18/1998	
			Belgium	620720	03/18/1998	
			Denmark	620720	03/18/1998	
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			Germany	69224847.1	03/18/1998	
			Greece	3026906	03/18/1998	
			Ireland	620720	03/18/1998	
			Italy	620720	03/18/1998	
			Luxembourg	620720	03/18/1998	
			Monaco	620720	03/18/1998	
			Netherlands	620720	03/18/1998	

			Spain	620720	03/18/1998
			Sweden	620720	03/18/1998
			Switzerland	620720	03/18/1998
			United Kingdom	620720	03/18/1998
			Canada	620720	03/18/1998
			Australia	696031	12/01/1998
			Japan	501958	03/02/1995
			Europe	688189	09/13/2000
			Austria	Eur0688189	09/13/2000
			Belgium	EP-BE 0 688	09/13/2000
			Denmark	EP-DK 0,688	09/13/2000
			France	EP-FR 688,189	09/13/2000
			Greece	20000402504	09/13/2000
			Ireland	EP-IR0688189	09/13/2000
			Italy	EP-IT0688189	09/13/2000
			Luxembourg	EP-LU068189	09/13/2000
			Netherlands	EP-NL0688189	09/13/2000
			Sweden	EP-SE0688189	09/13/2000
			Switzerland	EP-CH0688189	09/13/2000
			U.Kingdom	EP-UK0688189	09/13/2000
			Monaco	EP-MC)0 688 189	
			Portugal	0 688 189	
			Spain	2151925	
91-03	Three Dimensional Panoramic Dental Radiography	Richard L. Webber	Australia	659588	12/13/1991
92-07	Self-Calibrated Tomosynthetic, Radiographic-Imaging System, Method and Device	Richard L. Webber	Australia	697905	02/04/1999
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			France	0,638,224	
			Germany	0,638,224	
			Italy	0,638,224	
			Sweden	0,638,224	
			United Kingdom	0,638,224	
92-16	Chelators in Combination with Biocides: Treatment of	Robert Sherertz	Australia	5,688,516	

	Microbially induced biofilm and corrosion							
92-20	Novel Estrogen for Lowering Plasma Cholesterol	Scott Washburn	Mexico	197,673				07/14/2000
			Pakistan	134008				01/30/1996
			Argentina	AR255491VI				01/18/2002
			Europe	EP00666747A1				08/16/1995
			South Africa	93/8016				07/26/1995
			Taiwan	NI69482				05/04/1994
			Denmark	666747				12/27/2001
93-09	Treatment Process With Biologically Active Tropane Derivatives	Huw Davies	Australia	673265				02/18/1997
			Japan	2906085				04/02/1999
93-13	Ileal Bile Acid Transporter Comp. & Methods	Paul A. Dawson	Australia	691868				09/04/1998
94-07	Expandable, Intraluminal Stents	Joel Berry	Canada	96/09013A1				03/28/1996
95-02	Virtual Reality Medical Imaging	David Vining	Australia	706280				09/23/1999
96-07	Targeted Cytotoxic Cells	Si-Yi Chen	Australia	738749				10/23/1997
96-18	Novel Methods and Ligands for the Diagnosis of Breast Cancer	Robert Mach	Australia	77247800				08/02/2000
97-09	Novel Method for Prevention and Treatment of HIV-1	Si-Yi Chen	Australia	721121				05/03/2000
97-15	Methods of Use for DHEN	Scott Washburn	Europe	066747				
			Denmark	066747				
97-21	Beta Lactams as Antiproliferative Agents	Floyd Chilton	Europe	AO1N4344				11/12/1998
98-20	Methods and Compositions for Antigen Presentation in Mammals	Si-Yi Chen	Australia	721121				10/05/2000