



WISCONSIN ALUMNI RESEARCH FOUNDATION

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September 12, 1977

Mr. Norman J. Latker
Patent Counsel
Office of the General Counsel
Department of Health, Education,
and Welfare
Washington, D. C. 20201

Dear Mr. Latker:

Re: Institutional Patent Agreement
University of Wisconsin - Department of
Health, Education, and Welfare

This letter and the attachment will comprise the annual report required under the terms and provisions of the above noted agreement for the period from July 1, 1976 through June 30, 1977. Reported are new inventions which have been brought to the Foundation and reported to the Department during the indicated period as well as information regarding inventions for which the Foundation was previously given responsibility under the Institutional Patent Agreement. You will find pertinent information regarding all of these inventions in the attached table.

Very truly yours,

UNIVERSITY OF WISCONSIN

By

Reuben H. Lorenz, Vice President and
Controller

WISCONSIN ALUMNI RESEARCH FOUNDATION

By

Howard W. Bremer, Patent Counsel

RHL:HWB:rw

Enc.

bc--Prof. Wm. H. Young
Mr. Kent Hill
Mr. Pike & Mr. Woerpel

UNIVERSITY OF WISCONSIN-WARF
DHEW INSTITUTIONAL PATENT AGREEMENT INVENTION REPORT
July 1, 1976-June 30, 1977

<u>Invention & Grant No.</u>	<u>Inventors</u>	<u>Invention Reported to DHEW</u>	<u>Serial No. Filing Date</u>	<u>Development and Commercial Use</u>	<u>WARF Expenditures (Approx. Estimate)</u>
Method for Reducing Frost Damage of Plants Grant No. HEW GMD 7215-01	Army, D. C. Lindow, S. E.	9/2/76	710,414 8/2/76	Discussions held with several potential licensees; other discussions pending. Seminar held for representatives of 10 interested companies.	\$ 3,500
Method for Preparing a Reagent for PLT Grant Nos. PHS HL06314 NIH AI00567 NIH AI08439 NIH CA16836	Bach, M. L. Bach, F. H.	6/21/77	697,029 6/17/76	License with Biotest-Serum-Institut, Germany, pending.	\$ 4,000 \$ 2,000 (apportioned expense)
Cytokinin Antagonist to Plant Growth Hormone NIH Grant No. GM 12395	Bock, R. M. Hecht, S. M. Skoog, F. K. Schmitz, R. Y.	11/8/71	604,173 8/13/75	Option agreement with Dow Chemical Co. terminated by Dow (plant science field). License agreement with Burroughs-Wellcome (mammalian field). A new potential licensee considering scope of interest in invention.	\$ 9,000 \$ 4,500 (apportioned expense)

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24, 25-Dihydroxy-cholecalciferol NIH Grant Nos. AM 14881 AM 15512	DeLuca, H. F.	7/6/72	Pat. No. 3715374 issued 2/6/73	Licensed to Upjohn Co., Hoffmann-LaRoche, Roussel Uclaf (France), Leo (Denmark), Chugai (Japan), Diamond Shamrock Corp. Other licenses pending.	\$ 1,025 \$ 5,500 (apportioned expense)
25, 26-Dihydroxy-cholecalciferol NIH Grant No. AM 05800-08	DeLuca, H. F.	11/16/71	Pat. No. 3739001 issued 6/12/73	Same as above.	\$ 835 \$ 5,500 (apportioned expense)
1, 24, 25-Trihydroxycholecalciferol NIH Grant Nos. AM 14881 AM 15512	DeLuca, H. F.	7/17/73	Pat. No. 3847955 issued 11/12/74	Same as above.	\$ 4,000 \$ 5,500 (apportioned expense)
5, 6-Trans-25-Hydroxycholecalciferol NIH Grant No. AM 15512	DeLuca, H. F. Holick, M. F. Garabedian, M.	2/11/72	Pat. No. 3743661 issued 7/3/73	Same as above.	\$ 1,655 \$ 5,500 (apportioned expense)

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1, 25-Dihydroxy-ergocalciferol NIH Grant Nos. 5-PO1-AM-14481 5-PO1-AM-15512	DeLuca, H. F. Jones, G. Schnoes, H. K.	6/13/74	Pat. No. 3880894 issued 4/29/75	Same as above.	\$ 4,216 \$ 6,000 (apportioned expense)
Method of Treating Milk Fever in Dairy Cattle with 1 α -Hydroxycholecalciferol NIH Grant Nos. 5-PO1-AM-15512 5-PO1-AM-14881	DeLuca, H. F. Jorgensen, N.	6/13/74	Pat. No. 3879548 issued 4/22/75	Same as above.	\$ 1,200 \$ 6,500 (apportioned expense)
1, 25-Dihydroxycholecalciferol NIH Grant No. AMO 5800-10	DeLuca, H. F. Schnoes, H. K. Holick, M. F.	4/8/71	Pat. No. 3697559 issued 10/10/72	Same as above. (A licensee has filed an NDA in the U. S. on 1, 25-dihydroxycholecalciferol.)	\$ 8,470 \$10,000 (apportioned expense)

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1 α -Hydroxycholecalciferol NIH Grant No. AM 15512	DeLuca, H. F. Schnoes, H. K. Holick, M. F. Semmler, E.	12/2/71	Pat. No. 3741996 issued 6/26/73	Same as above. (A licensee has filed for governmental approval in the United Kingdom & Scandanavian countries on 1 α -hydroxycholecalciferol.)	\$16,763 \$10,000 (apportioned expense)
1 α -Hydroxyergocalciferol NIH Grant No. AM 14881	DeLuca, H. F. Schnoes, H. K. Lam, H. Y.	8/28/74	Pat. No. 3907843 issued 9/23/75	Same as above.	\$ 3,798 \$ 6,500 (apportioned expense)
3-Deoxy-1 α -Hydroxycholecalciferol NIH Grant No. AM 14881	DeLuca, H. F. Schnoes, H. K. Lam, H. Y.	8/28/74	Pat. No. 3906014 issued 9/16/75	Same as above.	\$ 6,324 \$ 7,500 (apportioned expense)
Rodenticide NIH Grant No. AM 14881	DeLuca, H. F. Schnoes, H. K. Suttie, J. W. Frank, H.	11/10/75	584,900 6/9/75; Pat. No. 4035493 issued 7/12/77	Same as above.	\$ 4,000

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Derivative of T-2 Toxin & Anguidine HEW GRS Grant in Pharmacy #G066	Ellison, R. A. Kotsonis, F. N.	2/6/76	646,647 1/5/76	Testing results indicate invention probably not viable for licensing.	\$ 1,900
Electromagnetic Flowmeters for Blood or Other Conductive Fluids NIH Grant No. HE-97754	Folts, J. D.	9/29/71	Pat. No. 3739640 issued 6/19/73	No commercial interest found. Probably not licensable because of market size and technological factors.	\$ 1,700
Computer Voice Response Terminal Grant Nos. 5-PO7-RR00249-08 5-SO1-RR05435-12 5-603-PE00196-08 5-PO7-RR00249-09 5-PO7-RR00249-10 O5S 00196-09 5-PO2 CA.14520-03	Friedman, R. B. Cheung, S. J.	6/21/77	739,582 11/8/76; aband. 7/77. DHEW notified of abandonment 7/1/77	Application abandoned - rights returned to DHEW - lack of novelty.	\$ 1,000

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The Preparation and Use of Europium and Prasedoymium Chelates of 3-Tri-Fluor-acetyl D-Camphor and 3-Perflouro-n-butyl D-Camphor Predoctoral Fellow FO-1-DM-41571	Goering, H. L. Eikenberry, J. Koermer, G. S.	9/10/71	Pat. No. 3789060 issued 6/19/73	Licensed to Regis Chemical Co. (Compounds being marketed.) Interference on Patent No. 3789060 settled.	\$14,400
Fluorinated Camphor Derivatives and Europium and Prasedymium Chelates Thereof Postdoctoral Fellow FO-1-GM-41571	Goering, H. L. Eikenberry, J. Koermer, G. S.	5/23/74	Pat. No. 3915641 issued 10/28/75 (Div.)		
Isolation of a Ca ⁺⁺ Specific Ionophore from Mitochondria NIH Grant Nos. 5-PO1-GM-12847-09 5-PO1-GM-12847-10	Green, D. E. Blondin, G. A.	2/13/75	No pat. app. filed to date.	Invention awaiting better definition before pat. app. can be filed and commercial interest contacted.	\$ 250

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Process for Preparing 1 α -25-Hydroxy-cholecalciferol (No direct Federal funding - Government given license because of use of material supplied by DeLuca in making invention.)	Matsunaga, I. Ochi, K. Nagano, H. Shindo, M. Ishikawa, M. Kaneko, C. DeLuca, H. F.	2/19/76	657,375 2/12/76; Pat. No. 4022768 issued 5/10/77	Licensed with DeLuca et al inventions supra.	\$ 4,700
Compensation of Patient Thickness Variations and Differential X-ray Transmission Imaging NIH Fellowship Nos. 5-TO1-CA-05104-10 5-TO1-CA-05104-11	Mistretta, C. Kelcz, F.	1/15/74	Pat. No. 3854049 issued 12/10/74	Inventors' work has led away from the techniques covered by these pat. applns. Pat. applns. on new technology are not being sought because of ruling by NSF when current grant was made. As industrial interest firms re. new techniques WARF hopes that secondary products may justify the granting of licenses under these pats. also.	\$ 6,000
Differential X-ray Method and Apparatus NIH Grant No. 5-TO1-CA-05104-11	Mistretta, C. Kelcz, F.	5/9/75	Pat. No. 3974386 issued 8/10/76		\$22,000

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Multiplexing of Physiological Sensor Signals with Gamma Ray Camera Data Grant No. PHS HRA 05000196-09	Nickles, R.	7/1/75	586,200 6/12/75; Pat. No. 4033335 issued 7/5/77	All U.S. manufacturers of gamma ray cameras have been contacted, with no interest having been expressed.	\$ 6,000
Correction of Data Loss in Gamma Ray Scintillation Cameras Grant No. PHS HRA 05000196-09	Nickles, R.	6/14/76	690,651 5/27/76 (c-i-p of 586,200)		
A Three Dimensional Fast-Coincidence Gamma Imaging System DHEW Grant No. 5-E03-PE-00196-07	Nickles, R. Meyer, H.	4/3/73	Pat. No. 3978337 issued 8/31/76	More related work with positron emitters, upon which this invention depends, is necessary to establish a favorable climate for this invention.	\$ 6,500

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Regulation of Insect Reproduction and/or development NIH Grant No. 1-PO6-RR- 1 WO779-01	Norris, D. Bridges, J.	7/3/74	No pat. app. filed to date.	Invention does not appear to be definable for patent purposes.	\$ 300
Antibiotic Production by Mycoplasma Species IIRP NIH Grant No. 5RO1-A1-10505	Perlman, D. Sylvestre, M. Sakai, T.	9/1/75	623,413 10/17/75	Option agreement entered into with Abbott Laboratories	\$ 9,500
Solid Phase Synthesis of Protected Peptides NIH Grant No. 5-RO1-AM-15507-03	Rich, D. H. Gurwara, S.	12/3/74	575,478 5/7/75	Work of other scientists in the field may create new interest in this invention. So far no interested company.	\$ 6,500
Solid Phase Synthesis of Protected Peptides NIH Grant No. 5-RO1-AM-15507-03	Rich, D. H. Gurwara, S.	2/3/77	748,948 12/9/76 (Div. of 575,478)		

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Immobilization of Macromolecules on Tissue NIH Grant No. 5-SOS-RR-07098(07)	Richardson, T.	1/4/74	472,588 5/23/74	Some additional contact with U. S. companies has occurred but no interest expressed.	\$ 4,000
Method for Typing Human Leukocyte Antigens Grant Nos. NIH AI 11576-03 NIH AI 08439 NIH CA 14520 NIH GM 20130 NIH GM 15422-10 NIH CA 16836-01	Sheehy, M. J. Sondel, P. M. Bach, F. H. Bach, M. L.	6/21/77	697,545 6/18/76	License with Biotest-Serum-Institut, Germany, pending (see Bach et al invention supra).	\$ 500 \$ 750 (apportioned expense)
Process for Preparing L-dopa (thru microbiological means) NIH Grant Nos. 5-RO1-AM-04874-09 5-TO1-AM-09688-05 5-SO1-FR-05456-07	Sih, C. J.	9/25/69	Pat. No. 3671397 issued 6/20/72	No commercial interest to date.	\$ 4,000

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Process for Preparing dl-Strigol NIH Grant No. 2-RO1-AM-4874-12	Sih, C.J.	3/11/74	Pat. No. 3887547 issued 6/3/76	Continuing efforts being made to place invention - no express interest to date.	\$ 2,750
Process for Preparing dl-Strigol NIH Grant No. 2-RO1-AM-4874-12	Sih, C.J.	9/1/75	Pat. No. 3972916 issued 8/3/76 (Div.)		
Process for Preparing dl-Strigol NIH Grant No. 2-RO1-AM-4874-12	Sih, C.J.	9/1/75	Pat. No. 3954806 issued 5/4/76 (Div.)		
Glycosides of 2,6-Bis(Hydroxy)-3,7-Dioxabicyclo [3,3,0] Octane Grant No. NIH 2-RO1-AM-09688-11	Sih, C.J.	5/18/76	688,275 5/20/76	Company has done preliminary screening - licensing interest not yet determined.	\$ 8,000

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Prostaglandins and Methods for Preparing Same NIH Grant Nos. A955 & B738	Sih, C.J.	1/28/72	221,058 1/26/72; Pat. No. 4031129 issued 6/21/77	Licensed to Miles Laboratories, Alza Corp., Johnson & Johnson, Teijen (Japan), Mitsubishi-Teikoku (Japan)	Gross out-of-pocket expenses for Sih inventions \$89,576
Prostaglandins and Methods for Preparing Same NIH Grant Nos. A955 & B738	Sih, C.J.	With this report	772,018 2/25/77 (Div. of 221,058)	Same as above.	
Prostaglandins and Methods for Preparing Same NIH Grant Nos. A955 & B738	Sih, C.J.	With this report	772,019 2/25/77 (Div. of 221,058)	Same as above.	
3-Substituted Iodo Alkenyl Compounds NIH Grant No. AMO 4874	Sih, C.J.	9/1/75	Pat. No. 3962351 issued 6/8/76	Same as above.	

Not determinable at present time which inventions will or may be used commercially.

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Prostaglandins and Methods for Preparing Same NIH Grant Nos. A955 & B738	Sih, C.J.	1/28/72	221,058 1/26/72; Pat. No. 4031129 issued 6/21/77	Licensed to Miles Laboratories, Alza Corp., Johnson & Johnson, Teijen (Japan), Mitsubishi-Teikoku (Japan)	Not determinable at present time which inventions will or may be used commercially. Gross out-of-pocket expenses for Sih inventions \$89,576
Prostaglandins and Methods for Preparing Same NIH Grant Nos. A955 & B738	Sih, C.J.	With this report	772,018 2/25/77 (Div. of 221,058)	Same as above.	
Prostaglandins and Methods for Preparing Same NIH Grant Nos. A955 & B738	Sih, C.J.	With this report	772,019 2/25/77 (Div. of 221,058)	Same as above.	
3-Substituted Iodo Alkenyl Compounds NIH Grant No. AMO 4874	Sih, C.J.	9/1/75	Pat. No. 3962351 issued 6/8/76	Same as above.	

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3-Substituted Iodo Alkenyl Compounds NIH Grant No. AMO 4874	Sih, C.J.	9/1/75	Pat. No. 3962352 issued 6/8/76 (Div.)	Same as above.	Not determinable at present time which inventions will or may be used commercially.
3-Substituted Iodo Alkenyl Compounds NIH Grant No. AMO 4874	Sih, C.J.	9/1/75	Pat. No. 2962353 issued 6/8/76 (Div.)	Same as above.	
Method for Preparing 2-Substituted-4-Hydroxy Cyclopentene-1,3-Diones NIH Grant Nos. AM-9688 AM-4874	Sih, C.J.	9/29/72	Pat. No. 3773622 issued 11/20/73	Same as above.	

Gross out-of-pocket expenses for Sih inventions \$89,576

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Process for Stereo-specifically Preparing Chiral-2-Substituted-4-Hydroxy-2-Cyclopenten-1-One NIH Grant No. AM-4874	Sih, C.J. Heather, J. B.	9/29/72	Pat. No. 3968141 issued 7/6/76	Same as above.	Gross out-of-pocket expense for Sih inventions \$89,576
Process for Stereo-specifically Preparing Chiral-2-Substituted-4-Hydroxy-2-Cyclopenten-1-One NIH Grant No. AM-4874	Sih, C.J. Heather, J. B.	9/8/76	688,276 5/20/76	Same as above.	
An Improved Process for the Preparation of Triacetoneamine Grant No. NIH GM16741	Sosnovsky, G. Konieczny, M.	5/11/77	Filing of pat. app. being considered		\$ 750

Not determinable at present time which inventions will or may be used commercially.

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Rodenticide NIH Grant No. P-01-AM-14881	Suttie, J. W.	5/28/75	576,347 5/12/75; Pat. No. 4021568 issued 5/3/77	No active commercial interest; efforts to license will continue.	\$ 5,000
Method & Apparatus for Dialysis NIH Grant No. GM-16133	Updike, S. J.	3/27/73	Pat. No. 3846236 issued 11/5/74	An option to a license has been granted to the German company which presently manufactures 90+% of all kidney dialysis films. Collaborative work between the German lab and Prof. Updike's lab continues.	\$11,000
Method & Apparatus for Dialyzing Carbon Dioxide from Blood Plasma NIH Grant No. GM-16133	Updike, S. J.	3/27/73	Pat. No. 3953329 issued 4/27/76		
Catalyst Containing Semi-Permeable Membrane for Respiratory Gas Exchange by Dialysis NIH Grant No. GM-16133	Updike, S. J.	5/15/74	434,231 1/17/74 Pat. No. 3996141 issued 12/7/76		

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Method for Immunological Determinations NIH Grant Nos. GM-16133 GM-70157	Updike, S.J.	5/15/74	Pat. No. 3970429 issued 7/20/76	Former licenses to Squibb & Ames Labs have been terminated by mutual agreement. License to Union Carbide is being re-evaluated by that company, and negotiations are currently underway with 2 other companies.	\$26,000
The Preparation of Dry, Porous Gel Particles Having High Water Regain or Liquid Sampling NIH Grant Nos. GM-16133 GM-70157	Updike, S.J.	1/4/74	Pat. No. 3925017 issued 12/9/75		
Reagent for Immunological Determinations NIH Grants He-09922 GM-16133 K3-HE-18184	Updike, S.J. Goodfriend, T.L.	4/29/70	Pat. No. 3793445 issued 2/19/74		

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<u>INVENTIONS ON WHICH DHEW WAIVED RIGHTS TO NATIONAL SCIENCE FOUNDATION</u>					
Sentization of Radio Thermoluminescence in Dosimetry Grade LiF by Simultaneous Annealing and Ultra-violet Illumination NIH Grant No. 5-T01-CA05105-11 NSF Grant No. 74-52-GH 34585	Mayhugh, M. Fullerton, G.	2/22/74	Pat. No. 3962586 issued 6/8/76	Potential commercial interest exhausted.	\$ 3,600

INVENTIONS ON WHICH NSF WAIVED RIGHTS TO DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

The Production of Radiation Induced Thermally Activated Current (RITAC) Devices by Selective Purification of Dielectric Solid Material NIH Grant No. 5-T01-CA-05104 10 & 11 NSF Grant No. GH-34585	Moran, P. R. Podgorsak, E. Fullerton, G. Fuller, G. E.	3/18/74	Pat. No. 3935457 issued 1/27/76	Discussions continuing with potential licensees. A meeting has been set for early Sept. with a new company.	\$ 7,800
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<u>JOINTLY REPORTED INVENTIONS</u> <u>DHEW INSTITUTIONAL PATENT AGREEMENT</u> <u>AND</u> <u>NSF INSTITUTIONAL PATENT AGREEMENT</u>					
Oxidative Decarboxylation of Carboxylic Acids NIH Grant No. 5-R01-GM-13598 NSF Grant No. 76-1-MPS-03396	Trost, B. M. Tamaru, Y.	3/18/75	578,533 5/19/75 Pat. No. 4007211 issued 2/8/77	Nature of process brought to attention of several companies - no commercial interest expressed.	\$ 2,500
Stereocontrol in Allylic Alkylation Catalyzed by Palladium NIH Grant No. 5-R01-GM-13598 NSF Grant No. 76-1-MPS-03396	Trost, B. M. Verhoeven, T.	2/6/76	646,640 1/5/76	No industry contact to date.	\$ 1,900