and and an and an	Inventor	<u>University</u>	Invention	Licensee	Approximate Investment
1.	Walser	Johns Hopkins U.	Keto-Acid analogs of Amino Acids for treatment of uremia	Pfrimmer of Germany and Syntex of U.S.A	Millions - Clinical trials in process. Expected to be marketed in 6 mos. in Europe.
2.	Wiktor	Wistar Institute	Rabies Vaccine	Wyeth Laboratories	On the market - millions
3.	Kamen et al	Case Western Res.	Methotrexate Assay during Cancer Chemotherapy	Diamond Shamrock Corp.	Being test-marketed. Production scheduled for late 1977. Millions.
4.	Lillehei/Kaster	U. of Minnesota	Pivoting Disc Heart Valve	Medical, Inc.	Being sold in world-wide market since 1971. Millions.
5.	Blackshear et al	U. of Minnesota	Implantable Infusion Pump (Constant Infusion of Drugs for Treatment of Cancer, Diabetes, Pain, Morphine-	Metal Bellows Co.	Undergoing clinical trials. \$750,000.
	na menerana na kana kana kana mana kana kana kan	uun an an an an an an an ann ann ann an tha ann an tha ann an an tha an dhad an tan ann tha airtig dhadan an d	addiction, etc.)	na haaran waxaa ku waxaa waxaa waxaa waxaa waxaa waxaa waxaa waxaa ku	
6.	DeLuca	U. of Wisconsin	25-Hydroxycholecalciferol for treatment of Osteo- dystrophy with liver	Rousel-Úclaf (Hoechst) and	Have applied for equivalent of NDA in France. Approximately \$5 million.
			dysfunction	Upjohn •	About to apply for an NDA and an NADA. Will spend about \$10 million.
	Del_uca	U. of Wisconsin	1-Alpha Hydroxycholecalciferol for treatment of Osteo- dystrophy with Kidney Dysfunction	Leo Pharma- ceuticals	Applying for new drug applications in Denmark and Great Britain. May be marketed this year. Approx. \$5,000,000.

	Inventor	University	Invention	Licensee	Approximate Investment
-	DeLuca et al	U. of Wisconsin		Inc.	About to apply for NDA. Will spend about \$10 million.
9.	F.o.s	Columbia U.	Silver Sulfadiazine used in Treatment of Burns	Marion Labs., Kansas City, Mo.	Now on market - Approx. \$5,000,000
10.	Heidelberger	U. of Wisconsin	Use of F ₃ TDR for Herp es Infections of the Eye	Burroughs Wellcome Co., Research Triangle Park, N.C.	Approx. \$5,000,000 NDA expected by end of 1977:
11.	Fischell	Johns Hopkins U.	Rechargeable Cardiac Pacemaker	Pacesetter Systems Sylmar, California.	On market since Feb. 1975 - Approx. \$720,000
12.	Holland	Tulane U.	Method of Reducing Intra- ocular Pressure in the Human Eyes (Glaucoma Treatment)	Cooper Labs., Bedford Hills, N.Y.	\$2,000,000 - Development leading to NDA is in process and on schedule
13.	Pressman	U. of Miami	Application of X-537A in the Cardiovascular System (for stimulation in cardio- genic shock, congestive heart failure, etc.)	Nutley, N.J.	\$500,000 to \$1,000,000 Clinical evaluations still in progress
14.	Higley	Natl. Institute of Scientific Research	Polycarbonate Dialysis Membranes (kidney dialysis)	C. R. Bard Inc., Murray Hill, N.J.	Over \$1,000,000. Market introduction expected imminently.
]5.	-Talbot/Harrison	Johns Hopkins U.	-Ballistocardiograph Apparatus	Royal Medical Corp Huntsville, Ala.	• Approx. \$330,000. Now on market.

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• •		University	Invention	Licensee	Approximate Investment
16.	<u>Inventor</u> Plotkin	Wistar Institute	Rubella Vaccine	 Wellcome Foundation L'Institut 	Approx. millions - Now on market.
				Merieux 3) Swiss Serum and Vaccine Institut (Merck, an Itali	e and others an firm, etc.)
17.	Schaffner/Mechlins	(1 Rutgers U.	Derivatives of Polyene Macrolide Antibiotics	. E.R. Squibb of U.S.A. and	Millions - Clinical trials . progressing favorably
			•	Dumex of Denmark	
18.	Zweig	Syracuse U.	Apparatus for Measuring and Controlling Cell Population Density in a Liquid Medium	New Brunswick Scientific Co., * Inc., of New Jersy	Millions - On the market since 1973
19.	Lovelock	Yale U.	Gas Analysis Method and Device for the Qualitative and Quantitative Analysis of Classes of Organic Vapors	Varian Associates, Palo Alto, Calif.	
20	• Fried	U. of Chicago	Prostoglandins for possib Treatment of Bronchial Asthma, Duodenal Ulcers, Inflammatory Conditions,	N.Y.	Several millions - In k, process of development and testing for marketing here and abroad
21	. Leininger/Grotta et_al	Battelle Memorial Institute	Preparation of Non- thrombogenic Surfaces and Materials	C. R. Bard, Inc. Billerica, Mass. Sherwood Medical	others being tested.
•	•			Industries, St. 1 Mo.; and America Hospital Supply Irvine, Californ	n Corp.,

Inventor	University	LING OF UNIVERSITY PATENT LIC	ENSING PROGRAMS	
22. Merrifield	Rockefeller U.	Apparatus for at	Licensee	Approximate Investme
23. Smith/Kozoman	Duke U.	Peptides	Beckman Instru- ments, Fullerton California	
		Apparatus and Method for Rapid Harvesting of Roller Culture Supernata Fluid	Bellco Glass, Inc Vineland, New	\$25,000 - Being mark since June 9, 19
24. Zweng	Stanford U.		nt Jersey	since oune 9, 19
25. Sweet et al	Stanford U	Laser Photocoagulator	Coherent Radiation Palo Alto, Cal.	n, Approximately \$500,0 Standard tool of
26. Boyd/Macovski	Stanford U.	Cell Sorter	Becton-Dickinson, Rutherford, New Jersey	ophtholmologists Approx. \$200,000. Impresearch tool
27. Saxena	Cornell U.	Computerized Axial Tomography Method for Testing	S.A.I. Cupertino, Cal.	Approx. \$300,000. Will be marketed soon.
28. Calnek/Hitchner	Cornell U.	Cell-free virus	Carter-Wallace	Approx. 1/2 million On market
29. Carlson	Iowa Ștate	Respiratory Augmente	Merck	
30.Leake/Rappoport	Harbon Comments	with Electronic Monitor and Control	Bourns, Inc.	On market since 1966; sales now in millions
	Harbor General Hospital	Bone Induction in an Alloplastic Tray	Am Hoondter	Data not available

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	Inventor	University	Invention	Licensee	State of Development
31.	Bradford/	U, of Georgia	Protein Assay Reagent and Method	Bio-Rad Labs, Inc; Quantimetrix Corp.	On the market since April 1977
32.	Williams Tenckhoff	U. of Washington	Catheter Insertion	Sweden Freezer Mfg, Co; Cobe Labs; Physio-Control Corp	On market P;
33.	Leonard et al	U. of Illinois	Fluorescent Derivatives of Cytosine-Containing Compounds	PL Biochemicals	On market
34.	Secrist et al	U, of Illinois	Fluorescent Derivatives of Adenine-Containing Compounds	PL Biochemicals	On market
	Asgar	U. of Michigan	Partial Denture Alloy		On market
35.	Carlson/Ward	U. of Washington	Coherent Biological Cell Analyzer	3M Company	Marketing development in progress.
37.	Charlson/ Alhquist	U, of Washington	Integrating Nephelometer and Photon-Counting Integrating Nephelometer	Battelle Develop- ment	On market
38.	Thomas	U, of Washington	Artery-Vein Shunt Applique	Battelle Develop- ment Corp.	. Being marketed

	Inventor	<u>University</u>	Invention	<u>Licensee</u>	State of Development
39.	Holcomb	Yale University	Method and Apparatus for Stimulation of Body Tissue	Avery Labs, Inc.	On the market since 1973
40.	Dugan	Temple University	Novel Compositions for Radiotracer Localization of Deep Vein Thrombi	Rand Research & Development Corp.	Licensed in 1977.
41.	Roelofs	Cornell University	Codling Moth Pheromone	Zoecon Corp.	On market since 1972.
42.	Whitby	Univ. of Minnesota	Particle Counter	Name not available	On market since 1969
43.	Backaner	Univ. of Minnesota	Method for Suppressing Ventricular Fibrillation	Burroughs Wellcome	About to be marketed .
44.	Whitby	Univ. of Minnesota	Aerosol Sampler	Not available	On market since 1969
1	Bradley	Univ. of Minnesota	Apparatus to Stimulate the Bladder	Two licenses, names not available	On market since 1972
46.	Blackshear	Univ. of Minneseta	Implantable Infusion Pump	Metal Bellows Company	About to be marketed
47.	. Lillehei	Univ. of Minnesota	Pivoting Disc Heart Valve	Name not available	On market world-wide since 1971
48	. Butler	Purdue Research Fdn.	Hydrophobic Noncovalent Binding of Proteins to Support Materials	Regis Chemical	On market since April 1977

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•	Inventor	University	-7- Invention	Licensee	State of Development
49.	Rosenberg	Michigan State Univ.	Platinum Compounds as Anti-Tumor Agents	Possibly Adria, Bristol or Miles Labs.	On market in late 1977
	Coller	Institute for Cancer Research	Process of Viral Diagnosis and Reagent (Radioimmuno- assay)	Abbot Labs.	Licensed in 1977 (Canada) On market in U.S.A.
51.	. Kosikowski	Cornell University	Antibiotic Test Kit	Bacto Strip	On market
52.	• Kosikowski	Cornell University	Process for Milk Sterilization	De Laval Alpha Laval	On market
- 53	. McLafferty	Cornell University	Pregnancy Test	Carter-Wallace	On market
\$54	. Kattwinkel et a	al Case Western Reserve	Device for Administering Pressure via Nasal Route	Sherwood Medical	On market since 1975