PLATINUM SPONSORS





ANIMAL HEALTH a division of Wyeth Pharmaceuticals

9 Iowa Business Council

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GOLD SPONSORS Cargill Iowa State University **Trans Ova Genetics** University of Iowa

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Bio Research Products



Archer Daniels Midland (1902) **Pioneer Hi-Bred Corn Company (1926)** Garst Seed (1930) Dent (1930) 1940

1840

1960

1985

1990

1995

2000

2005

acquired by: DuPont (1999)

Saltzman International (1946)

LLOYD, Inc. (1959)

Gruhn's Golden

Iowa State University (1858)

Percival Scientific (1886)

Vigortone Agri Products (1912)

Woodson-Tenet Laboratories

(1933)

Medco Lab (1965) A & L Heartland

Laboratories (1971) **Agri-Pro BioSciences** (1975)

Absorb-A-**Products (1979)**

Sucrosco Seeds (1980) lolden Comprehensive Cancer Center (1980)

APC (1981) Becker-Underwood (1984) Feed Energy **Company (1985)** Office of Biotechnology -(1986)lowa Thin Film Technologies (1988)

Metabolic Technologies (1990)

Keystone Laboratories (1990) Genencor (1991)

Genetic ID (1996)

(1997)

Selim Laboratories (1998) Plant Sciences

Institute (1999) -

Midwest Grain Processors Co-op (2000) National CUP Lat and Technology Center (2001) —

Regena Therapeutics (2002) AIN Company (2003)

acquired by: Syngenta (2004)

(1987) (1994 (1996)

> acquired by: Eurofins Scientific 2000)

CombiSep

1999)

Center for Integrated Animal Genomics (2002)

BioProtection System (20

owa BioG North Star Mill (1873) **American Cereal Company (1885)** Quaker Oats (1901) ——— Fort Dodge Animal Health (1912) Sand Seed Service

> (1932) Schlessman Seed (1937)

> > PharmTech (1961)

Titronics Research &

Development (1970)

University of

Albaugh (1979)

Sara Lee/Bilmar

Foods plant (1983)

Penford Products (1984)

Iowa Division of

Pharmaceutical Serivces (1974)

Swine Genetics (1980)

Mycogen Seeds (1981)

acquired by: Wyeth Pharmaceuticals (1945)

Nobel Labs (1979)

FTE Genetics

Liberty Labs

E.S.N. Midwest

International

Naturale (1992)

1985)

(1988)

(1990)

(1991)

uired by:

Penwest

(1998)

Boehringer Ingelheim Vetmedica (1997)

Pharmaceuticals -

Wacker Biochem

(1999)

Profiseed

Terradyne

Helena Chemical (1950) Merrick Labs (1961)

Latham Seed (1947)

Grain Processing Corp. (1943)

> Kudico (1966) Grand Laboratories (1971)

Holden's

Foundation

Seeds (1937)

Laboratories

(1970)

Acorn

Chief ALFA

(1977) **ARKO Labs**

Struve Labs (1981)

(1980)

MTEC Photoacoustics (1984)

Advantech (1986) **Midland BioProducts**

Testamerica (1990)—

John Stoddard Cancer **Center (1991) Terra Industries (1992)**

BioForce Nanosci

Cooperative

Advanced Analytical Techn<mark>o</mark>logies (1998)

New Link Genetics (1999)

VeraSun Energy (2001)

acquired by: Novartis Animal Health (2002)

JRS Pharma (2003)

Pannar Genetic

of	Deva (1847) Cargill (1865)	1840
	GELITA USA (1875) Des Moines University (1898)	1900
	— University of Iowa Hygienic Lab (1904) Well's Dairy (1912)	1920
	DioSynth (1923) Golden Sun Feeds - division Dr. Salsbury of Buring Mills (1926)	1920
	Dr. Salsbury of Purina Mills (1926) Hy-Line International (1936) Laboratories (1929)	1940
	M&M BioTechnologies (1943) Diamond V Mills (194	-3)
	Iowa Testing Laboratories (1945) Stine Seed (1945) Hawkeye Hybrids (19 Hach Company (1947) MVTL Whiten Food & Million	
	Ajinomoto Laboratories Whiton Feed & Milling USA (1956) (1951) (1948)	9
	Custom Feeds (1964)Proctor & GamblePlant (1956)	1960
	Inland Protein (1965) Kemin Industries (19	
	Golden Harvest Seeds (1970)	1370
_	Invivo Labs (1972) Midwest	
	Bio-Research Products (1975)Oilseeds (1973)Seed Savers Exchange (1975)	
	Solvay Animal HealthTrans-Ova GeneticsPrince Agri-Products (1980)AgSource(1980)	1980
)	Belmond Labs Proliant (1981)	
	Center for (1981) Biocatalysis and	
	Bioprocessing (1983) Med-Tec (1983) Medipharm USA	
		1985
	Integrated DNA Technologies (1987) Manildra Energy (1988) — Ecolotree (1990) MTI Biotech (1990) DevanSoy (1991) Cambex (1991)	1990
	American Eco-Systems (1992) Veterinary Resources (1993) ExSeed Genetics (1994) Stine Biotechnology Mississippi Silliker Silliker (1995)	1995
	Valley Laboratories of Control	
-	(1996) Iowa (1996) Biotronics (1998) Pharmacom (1997) Goldfinch Mobren (1997) MSTRS Technologies (1998) (1998) (1998)	
	— Quorum Sciences (1998) — — — — — — — — — — — — — — — — — — —	99) 2000
	GlobalVetLink (1999) Technologies (2000)	
	Carbotech Iowa (2000)	
	Jones Microbiology Institute (2001) acquired by: Vertex (2001)	
	- ViraQuest (2001) Pharmaceuticals (2001)	
ics	(2005)	2005

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on how these institutions have become hotbeds for scientific research having a strong eye for commercialization. (Photos: scientific education while in lowa. Walking through the halls of any of lowa's universities will provide a visual impression of the Howard Hughes Medical Foundation) represent national and international known individuals who gained their and Nobel Prize Laureates Dr. Norman Borlaug (known as the Father of the Green Revolution) and Dr. Tom Cech (President The application of research to commercial opportunity has a rich history in lowa. George Washington Carver, Henry Wallace

George Washington Carver courtesy lowa State University; Henry Wallace courtesy Pioneer Hi-Bred; Norman Borlaug courtesy World Food Prize Foundation; Thomas R. Cech 🗅

lowa. The lowa BioGenealogy " chart allows you to trace the'technology origins' of more than 200 biotechnology, plant seed, veterinary medicines, termentation, and numerous

licenses and options executed and 3rd in executed licenses yielding income. The National Ag-Based Lubricants Research Center has been established at the University of Northern The University of lowa ranks among the top 10 in research funding from the National Institutes of Health, lowa State University ranked 2nd nationally in intellectual property

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other life science companies.

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University of Iowa zoitene 6va Genetics Iowa State University lligred

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Bio Research Products





disease prevention, protection and treatment to establish an integrated approach to securing the environment, food Biosecurity/Biodefense – deploying the leading-edge advances of lowa's institution in human, animal and plant

epidemiologic data and the state's stable population to produce rapid advances in post-genomic medicine and Post-Genomic Medicine – using lowa's genomic expertise and specific disease/disorder skills, in conjunction with

.sizylene agemi hne yelqsib agemi, levairai ne ageorage and retrieval, image display and image arealysis.

and business opportunities. Seven areas have been identified where lowa is ideally positioned for tremendous expansion. These areas are:

Drug Discovery, Development, Piloting and Production – leveraging lowa's strengths in basic biomedical research, drug development, and GMP production integrated

Biomedical Imaging – combining lowa's institutional strengths in engineering and medicine to establish an integrated approach to image acquisition, new device development,

slemine sitemine sitemine sitemine position in modeling animal systems and developing technologies with applications for transgenic animals, chimeric animals

be developed for a strength in plant and an index of the strength oscillation of the strength oscillation of the strength oscillation of the strength oscillation oscillat

collaborations between industry and the state's research institutions. This collaboration continually mines university research for marketable products possessing new businesses At the state level, the Biosciences Alliance of lowa, a consortium of industry, academic research and state government, is making impressive inroads in bolstering the existing

Institution of the second secon

• Plant Science Institute (having Centers specializing in Bioinformatics, Plant Genomics, Plant Transformation, Plant Breeding, Designer Crops, and Crops

Bio-based Products – drawing on lowa's plant and animal biomass to generate chemicals, energy, fuels and materials having industrial and commercial applications.

yroduction systems, human health and safety.

pipeline of new drugs and therapeutics.

produce functional foods and nutraceuticals.

University of Northern Iowa (www.uni.edu):

Health Inspection Service

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College of Veterinary Medicine

 Office of Biorenewables Office of Biotechnology (dilization Research)

:(uba:State University (www.iastate.edu): OF SCIENCE AND TECHNOLOGY

• State Hygienic Lab

College of Medicine

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National Ag-based Lubricants Center

U.S. Dept. of Energy – Ames Laboratory

Center for Integrated Animal Genomics

Center for Food Security & Public Health

Transgenic Animal Core & Vector Core Facilities

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LULVERSITY · Center for Biocatalysis and Bioprocessing

Center for Gene Therapy of Cystic Fibrosis & Other Genetic Diseases

Holden Comprehensive Cancer Center OF [OWA · Center for Bioinformatics & Computational Biology

Center for Advanced Drug Development

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Key areas of strength have been built over recent years in the following specialties:

• FDA-Approved GMP Drug & Biologic Production Facility

associated discoveries.

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