

1. CytoPherx Inc., Ann Arbor

Top executive: H. David Humes, M.D., co-founder and managing director

Patents filed in 2013: 5

CytoPherx manufactures a medical device that removes white blood cells from the kidneys of patients with acute kidney failure. Early trials have shown CytoPherx's technology can reduce mortality rates in patients from 50 percent to 31 percent. The company's patents from last year were related to methods for sequestering leukocytes (white blood cells) and platelet cells from the blood.

The Eureka Index: Most innovative companies

Crain's and Ocean Tomo analyzed patents issued by companies in Southeast Michigan in 2013 to identify the most innovative. This is the list of rankings by patent quality. Click on the company names for more about that company.

Rank	Company	Primary Industry Classification	
1	CytoPherx Inc.	Biotechnology	178.16
2	Cybernet Systems Corp.	Manufacturing equipment	149.83
3	Innovative Surgical Solutions LLC (Sentio LLC)	Biotechnology	144.90
4	Magna Electronics Inc.	Automotive/electrical components	140.15
5	Cosmetic Technologies LLC (IMX Cosmetics LLC)	Household products	138.80
6	Ovonyx Inc.	IT	137.79
7	Henry Ford Health System	Biotechnology	136.97
8	Sakti3 Inc.	Energy	135.08
9	Imra America Inc.	Manufacturing equipment	133.96
10	A123 Systems LLC	Energy	133.31
11	Immunolight LLC	Biotechnology	131.18
12	Adaptive Materials Inc.	Energy	129.27
13	Grindstone Capital LLC	Other (automotive, radio clocks)	125.18
14	Cobasys (Bosch Battery Systems LLC)	Energy	125.13
15	Saturn Electronics & Engineering Inc.	Automotive/electrical	123.05
16	JAC Products Inc.	Automotive/parts and equipment	122.40
17	Gentherm Inc.	Auto	122.32
18	Rubicon Genomics Inc.	Biotechnology	117.70
19	Stirling Biopower Inc.	Energy	116.57
20	Durr Systems Inc.	Manufacturing equipment	116.30
21	Service Solutions U.S. LLC	Metalworking machinery	116.14
22	Hygieia Inc.	Biotechnology	115.73
23	Oakland University	Manufacturing innovations	114.70
24	Bosch Automotive Service Solutions LLC	Auto	114.38
25	L.VAD Technology Inc.	Biotechnology	114.37