



*Transforming Today's Science
Into Tomorrow's Cures*



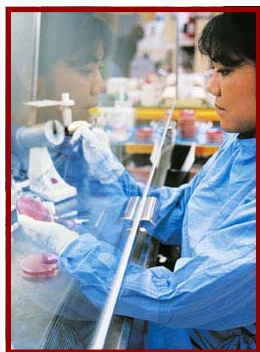
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Samaritan Files Patent For Tumor Inhibiting Cancer Drugs That Also Distinguish Cancerous Tumors to Improve On Chemotherapy



Samaritan has filed for a patent covering the Peripheral Benzodiazepine Receptor (PBR) which has led to Cancer drug candidates with the ability to inhibit cancerous tumors; and an imaging technique that could possibly distinguish cancerous tumors for a more targeted and improved chemotherapy.

The patent entitled "Etoposide Conjugates with PBR Ligands" describes PBR as a high affinity drug and cholesterol-binding protein that has become an attractive target for cancer therapies and cancer imaging. Over-expression of PBR has been observed in a variety of cancers, including brain, breast, colorectal and prostate cancers.

Samaritan Files Patent For Method to Identify Novel Anti-Tumor Drugs to Increase Cancer Compounds in Pipeline

Samaritan has exclusively filed a patent application entitled "Structure Based Drug Design of Steroid Inhibitors".

Samaritan's collaborating scientists discovered a unique and patentable computer-assisted method to identify cancer compounds that could be used as anti-tumor agents for cancer patients. This method allowed scientists to virtually screen databases, consisting of 15 million small molecules, without any biological input; to identify eight compounds with anti-tumor potential. Although early stage, one or more of these compounds could serve as a lead cancer compound in Samaritan's pipeline, after extensive preclinical efficacy and safety studies.



New Breast Cancer Diagnostic

As announced in Samaritan's Press Release dated Monday, July 30, 2007, Samaritan has filed for a patent for an innovative blood test diagnostic that detects whether a breast tumor is cancer and, if diagnosed as cancer, the blood test detects the cancer's aggressiveness to metastasize and spread throughout the body.

This innovative cancer diagnostic blood test was discovered by Samaritan's collaborating scientists. The diagnostic actually screens for targeted tumor cell markers and has demonstrated the ability to identify just one circulating breast cancer cell out of millions of normal blood cells.

Samaritan Announces Date for Annual Shareholder Meeting

Samaritan Pharmaceuticals, Inc. has set the date for the 2007 Annual Shareholder Meeting to be held on Tuesday, October 23, 2007 in Montreal, Quebec, Canada.

Please notify us as soon as possible if you plan on touring the Samaritan Laboratories, as we need to get security clearance ahead of time for entrance to the McGill University Research Institute. Please call Monica Jones 702-735-7001



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BIOTECH — Quick Facts:

The top 100 public biotechnology companies (“top 100”), led by the top three: Amgen, Inc., Genentech, Inc. & Genzyme Corp., generated combined revenue of \$54.29 billion in 2006. These same 100 companies combined for revenue of \$43.87 billion in 2005 and \$37.17 billion in 2004;

- The top 100 combined to spend \$14.77 billion on research and development during 2006. The totals were \$12.62 billion in 2005 and \$11.17 billion in 2004;
- The top 100 employed about 107,793 people during 2006. There were 96,889 employees for 2005 and 89,823 employees for 2004;
- The oldest roots among the top 100 trace back to Serono SA, which was founded in 1906 as a pharmacy and was acquired by Merck Serono SA in January, 2007;
- Among the top 100, 74 have headquarters located in the United States, with California accounting for 23 of them;
- Cambridge, Massachusetts remains the biotechnology capital of the world, representing home to eight of the top 100 companies.

Excerpts from the previous article were taken from MedAdNews; Andrew Humphreys' 16th Annual Report: Top 100 Biotechnology Companies



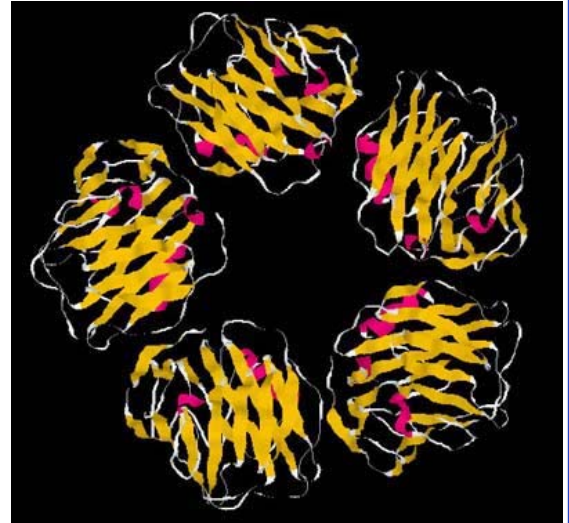
Biotechnology's Forward Surge

The worldwide biotechnology industry generated strong growth during 2006. Revenue for global public biotechnology companies rose 14% from 2005 to \$73.4 billion in 2006. Mergers and acquisitions activity, record financing, strong drug pipelines and an increase in annual product approvals are spurring biotechnology to

a \$100 billion industry by 2010. FDA approvals for biotechnology products increased from 33 in 2005 to 36 for last year. In Europe, product pipelines of public companies grew significantly.

Disease and the Hidden Factor

Body wide or local inflammation may be the cause of the major chronic diseases. Researchers have reached the conclusion that inflammation, an immune-system response that produces heat, swelling and redness, is at least partly to blame for four of the most common devastating diseases: Alzheimer's, cancer, diabetes and heart disease. This unexpected connection has already led to new insights into how to prevent, detect and treat those diseases. A simple blood test for a substance



C-reactive protein, whose ribbon structure is shown above, could provide complimentary information increasing the ability to find things that current tests may miss.

called C-reactive protein (CRP) can help to detect it. Inflammation is usually part of the body's healthy response to injury or infection. The immune system rushes white blood cells and other substances to the threatened site causing temporary, protective inflammation to battle the germs or repair the tissue damage.

Lingering Infection: Certain infections and the resulting inflammation clearly contribute to several cancers; the human papillomavirus (HPV) to cervical and vaginal cancer in women and penile cancer in men, the hepatitis B and C viruses to liver cancer, the *H. pylori* bacterium (the same one that causes ulcers) to stomach cancer and possibly the Epstein-Barr virus to lymphoma.

Diet: Saturated fat (from meat & dairy products) and trans fats (from partially hydrogenated oils) also raise the CRP level but other foods may reduce inflammation.

Emotional Distress: The markers of inflammation rise after stressful events may be consistently elevated in people who experience chronic stress from work, loneliness or constant fear.

Exposure to Irritants: Stomach acid that backs up into the esophagus can inflame the sensitive tissue there which may explain why chronic heartburn can lead to esophageal cancer. Inhaling cigarette smoke, asbestos and silica can irritate the lungs and unprotected exposure to sunlight can harm the skin both of which can trigger cellular changes leading to cancer.

Since inflammation is the root of most major chronic diseases, prompt care and attention should be given to problems and/or symptoms which interrupt your good health and well being. Taking preventive measures, see your doctor regularly for checkups & early detection – these are the key to your continued healthy lifestyle.

**Excerpts taken from the January, 2007 issue of “Consumer Reports on Health”.*

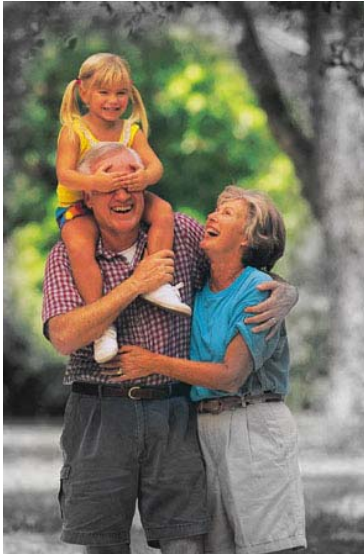
Human Clinical Trials - FDA Phases I-III

Product / Candidate / Territory	Nonclinical Studies	IND/Phase I	Phase II	Phase III	Approved Drug
AMPHOCIL® Systemic Fungal Infection (Greece & Cyprus Only)					Three Rivers Pharmaceuticals
ELAPRASE® Hunter Syndrome (Greece & Cyprus Only)					Shire
REPLAGAL® Fabry Disease (Greece & Cyprus Only)					Shire
SP-01A Infectious Disease					
SP-10 Infectious Disease					
SP-10T1 Infectious Disease					
SP-233 Alzheimer's Disease					
SP-04 Alzheimer's Disease					
SP-1000 Cardiovascular Disease					
SP-6300 High Cortisol Disease					

FILE FOR IND FROM FDA

Product / Candidate	Discovery		Preclinical Development		
	Research / Concept	Patent Filed	Safety	Efficacy	Animal Studies
SP-08 Alzheimer's Disease					
SP-sc4 Alzheimer's Disease					
SP-sc7 Alzheimer's Disease					
SP-C007 Cancer					
SP-03 Infectious Disease					
SP-4300 Epithelial Cell Cancer					

Staying Sharp & Avoiding “Brain Drain” as You Age:



For a long time, Alzheimer’s disease was considered an inevitable consequence of aging. But it has started to look more like heart disease. In fact, Alzheimer’s may have some of the *same* risk factors as heart disease. Researchers now believe that only a thin line separates Alzheimer’s and vascular dementia which occurs when the blood vessels that feed the brain become narrowed or clogged, either slowly or after a stroke. One difference between heart disease and dementia: heart disease

research has a 30 year head start. So how can you keep one step ahead of dementia before it rears its ugly head? Studies have indicated that eating two or three servings of fatty fish (like salmon) each week may help ward off dementia – but although the studies are in early stages, at the very least it will help to improve your heart health by making sure that you:



Eat Fatty Fish—The polyunsaturated omega-3 fats in fish oil, or DHA (docosahexaenoic acid) and EPA (eicosapentaenoic acid) seem to protect the heart.

There is also growing evidence that they may also protect the brain. EPA is anti-inflammatory and inflammation is part of the Alzheimer’s disease syndrome. But the evidence for DHA is even more compelling. It’s the most prominent fat in the brain, especially in the nerve cells in the cerebral cortex. People with Alzheimer’s have less DHA in their cerebral phospholipid cell membranes than normal people. Eating more fish with the good omega 3 fats could replace the missing DHA allowing it to cross the blood-brain barrier and enter the brain. Promising studies have shown that the people with the highest blood levels of DHA ate about three servings of fish per week and had about half the risk of dementia compared to those with lower levels. The preponderance of studies shows an association between fish consumption or DHA and cognitive decline, but it’s only an association, so maybe it’s time for a more definitive clinical trial.



Limit Saturated and Trans Fats—the bad fats that can clog your arteries.



Eat Leafy Greens—like kale, iceberg lettuce, romaine lettuce and raw or cooked spinach. That’s the group of “leafy greens” that could keep you thinking straight.



Look For Vitamin Enriched Foods—These foods include vegetable oils, nuts, seeds, green leafy vegetables and whole grains.



Keep Your blood Sugar Down—Your fasting blood sugar should be below 100. If it’s between 100 and 125, you have prediabetes. Over 125 means you’re diabetic and both put your brain at risk. Many studies link memory impairment to diabetes.



Lose Excess Weight—Nothing raises your risk of diabetes more than being overweight, but researchers now believe that extra pounds can jeopardize your brain even if you don’t get diabetes. In a study of over 10,000 members of Kaiser Permanente, those who were overweight in middle age were twice as likely to be diagnosed with Alzheimer’s disease or vascular dementia 36 years later. The obese had three times the risk of Alzheimer’s and five times the risk of vascular dementia. Of course, shrinking an expanding waist can also lower your risk of heart disease, stroke, diabetes and cancers of the colon, breast, esophagus, uterus and kidney.

Six Warning Signs of Alzheimer’s Disease:



If you know someone who shows signs of having some or even most of these symptoms, – only a neurologist, psychiatrist or other specialist trained in evaluating memory disorders can diagnose Alzheimer’s disease or other dementias.

The six warning signs are:

1. Asking the same question over and over again;
2. Repeating the same story, word for word, again and again;
3. Forgetting how to cook, how to make repairs, how to play cards or other activities that were previously done with ease.
4. Losing the ability to pay bills or balance a checkbook
5. Getting lost in familiar surroundings or misplacing household objects.
6. Neglecting to bathe or wearing the same clothes over and over again, while insisting that they have taken a bath or that their clothes are still clean.

*June 2007 Issue of Nutrition Action Health Letter
Excerpts from the above Alzheimer’s article taken from the
June 2007 Issue of Nutrition Action Health Letter*