

Breast Cancer Wisconsin Diagnostic

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Exact Sciences Corp. is an American molecular diagnostics company based in Madison, Wisconsin specializing in the detection of early stage cancers. The company's initial focus was on the early detection and prevention of colorectal cancer; in 2014 it launched Cologuard, the first stool DNA test for colorectal cancer. Since then Exact Sciences has grown its product portfolio to encompass other screening and precision oncological tests for other types of cancer.

List of datasets for machine-learning research

(21 November 2020). "Graph-based, Self-Supervised Program Repair from Diagnostic Feedback". International Conference on Machine Learning. PMLR: 10799–10808

These datasets are used in machine learning (ML) research and have been cited in peer-reviewed academic journals. Datasets are an integral part of the field of machine learning. Major advances in this field can result from advances in learning algorithms (such as deep learning), computer hardware, and, less-intuitively, the availability of high-quality training datasets. High-quality labeled training datasets for supervised and semi-supervised machine learning algorithms are usually difficult and expensive to produce because of the large amount of time needed to label the data. Although they do not need to be labeled, high-quality datasets for unsupervised learning can also be difficult and costly to produce.

Many organizations, including governments, publish and share their datasets. The datasets are classified, based on the licenses, as Open data and Non-Open data.

The datasets from various governmental-bodies are presented in List of open government data sites. The datasets are ported on open data portals. They are made available for searching, depositing and accessing through interfaces like Open API. The datasets are made available as various sorted types and subtypes.

Risk factors for breast cancer

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Risk factors for breast cancer may be divided into preventable and non-preventable. Their study belongs in the field of epidemiology. Breast cancer, like other forms of cancer, can result from multiple environmental and hereditary risk factors. The term environmental, as used by cancer researchers, means any risk factor that is not genetically inherited.

For breast cancer, the list of environmental risk factors includes the individual person's development, exposure to microbes, "medical interventions, dietary exposures to nutrients, energy and toxicants, ionizing radiation, and chemicals from industrial and agricultural processes and from consumer products...reproductive choices, energy balance, adult weight gain, body fatness, voluntary and involuntary physical activity, medical care, exposure to tobacco smoke and alcohol, and occupational exposures, including shift work" as well as "metabolic and physiologic processes that modify the body's internal environment." Some of these environmental factors are part of the physical environment, while others (such as diet and number of pregnancies) are primarily part of the social, cultural, or economic environment.

Although many epidemiological risk factors have been identified, the cause of any individual breast cancer is most often unknowable. Epidemiological research informs the patterns of breast cancer incidence across certain populations, but not in a given individual. Approximately 5% of new breast cancers are attributable to hereditary syndromes, and well-established risk factors accounts for approximately 30% of cases. A 2024 review found that there is a convincing association between increased breast cancer risk with high BMI and weight gain in postmenopausal women and a decreased risk from high fiber intake and high sex hormone-binding globulin levels.

Gilda's Club

features a live and silent auction for crafted bras that are also worn by breast cancer survivors in a runway fashion show. In 2018, "Bras for a Cause" raised

Gilda's Club is a community organization for people with cancer, their families and friends. Local chapters provide meeting places where those who have cancer, their families, and friends can join with others to build emotional and social support as a supplement to medical care. Free of charge and nonprofit, Gilda's Club chapters offer support and networking groups, lectures, workshops and social events in a nonresidential, homelike setting. The club was named in honor of the original Saturday Night Live cast member Gilda Radner, who died of ovarian cancer in 1989.

In 2009, Gilda's Club merged with The Wellness Community to form the Cancer Support Community, although local branches generally opted to retain the name Gilda's Club. Gilda's Clubs generates funds to support its programs through events often hosted by notable figures.

GE HealthCare

company acquired Zionexa, focused on biomarkers for the detection of breast cancer. In July 2021, the company integrated technology from Spectronic Medical

GE Healthcare Technologies, Inc. is an American health technology company based in Chicago, Illinois. The company, which stylizes its own name as GE HealthCare, operates four divisions: Medical imaging, which includes molecular imaging, computed tomography, magnetic resonance, women's health screening and X-ray systems; Ultrasound; Patient Care Solutions, which is focused on remote patient monitoring, anesthesia and respiratory care, diagnostic cardiology, and infant care; and Pharmaceutical Diagnostics, which manufactures contrast agents and radiopharmaceuticals.

The company's primary customers are hospitals and health networks. In 2023, the company received 42% of its revenue in the United States and 13% of its revenue from China, where the company faces increasing competition.

The company operates in more than 100 countries. GE Healthcare has major regional operations in Buc (suburb of Paris), France; Helsinki, Finland; Kraków, Poland; Budapest, Hungary; Yizhuang (suburb of Beijing), China; Hino & Tokyo, Japan, and Bangalore, India. Its biggest R&D center is in Bangalore, India, built at a cost of \$50 million.

In May 2022, General Electric formed the company to own its healthcare division; it completed the corporate spin-off of the company in January 2023.

American Cancer Society Cancer Action Network

provided under NBCCEDP include clinical breast examinations, mammograms, pap smears, pelvic examinations, diagnostic testing for abnormal results, and treatment

The American Cancer Society Cancer Action Network (ACS CAN) is a nonprofit, nonpartisan advocacy affiliate of the American Cancer Society. It was founded in September 2001 to directly lobby with the goals of the American Cancer Society, which is subject to restrictions on advocacy activities because of its tax classification. ACS CAN works to make cancer a national priority. Specifically, it advocates for better access to care, cancer prevention and early detection programs, cancer research funding, regulation of tobacco by the U.S. Food and Drug Administration, better quality of life for cancer patients, and attempts to raise awareness of and reduce cancer disparities.

Susan Hagness

research involving diagnostic and therapeutic technology development as well as basic research, such as the dielectric properties of breast tissue at microwave

Susan Carol Hagness is the Philip D. Reed Professor and Chair of the Department of Electrical and Computer Engineering and the Maria Stuchly Professor of Electrical Engineering at the University of Wisconsin-Madison. Prior to her appointment as department chair in 2018, she served as Associate Dean for Research and Graduate Affairs in the College of Engineering for a three-year term. She is also a faculty affiliate of the Department of Biomedical Engineering and a member of the Imaging and Radiation Sciences program within the UW Carbone Cancer Center.

Hologic

the company announced it would acquire Biotheranostics and its breast and metastatic cancer test portfolio for \$230 million and SOMATEX for \$64 Million.

Hologic, Inc. is an American medical technology company primarily focused on women's health; it sells medical devices for diagnostics, surgery, and medical imaging.

Progesterone (medication)

Factors in Breast Cancer (CGHFBC). Most data on breast density changes and breast cancer risk are with oral progesterone. Data on breast safety with

Progesterone (P4), sold under the brand name Prometrium among others, is a medication and naturally occurring steroid hormone. It is a progestogen and is used in combination with estrogens mainly in hormone therapy for menopausal symptoms and low sex hormone levels in women. It is also used in women to support pregnancy and fertility and to treat gynecological disorders. Progesterone can be taken by mouth, vaginally, and by injection into muscle or fat, among other routes. A progesterone vaginal ring and progesterone intrauterine device used for birth control also exist in some areas of the world.

Progesterone is well tolerated and often produces few or no side effects. However, a number of side effects are possible, for instance mood changes. If progesterone is taken by mouth or at high doses, certain central side effects including sedation, sleepiness, and cognitive impairment can also occur. The medication is a naturally occurring progestogen and hence is an agonist of the progesterone receptor (PR), the biological target of progestogens like endogenous progesterone. It opposes the effects of estrogens in various parts of the body like the uterus and also blocks the effects of the hormone aldosterone. In addition, progesterone has neurosteroid effects in the brain.

Progesterone was first isolated in pure form in 1934. It first became available as a medication later that year. Oral micronized progesterone (OMP), which allowed progesterone to be taken by mouth, was introduced in 1980. A large number of synthetic progestogens, or progestins, have been derived from progesterone and are used as medications as well. Examples include medroxyprogesterone acetate and norethisterone. In 2023, it was the 117th most commonly prescribed medication in the United States, with more than 5 million prescriptions.

Brain tumor

the brain are lung cancer (accounting for over half of all cases), breast cancer, melanoma skin cancer, kidney cancer and colon cancer. Brain tumors can

A brain tumor (sometimes referred to as brain cancer) occurs when a group of cells within the brain turn cancerous and grow out of control, creating a mass. There are two main types of tumors: malignant (cancerous) tumors and benign (non-cancerous) tumors. These can be further classified as primary tumors, which start within the brain, and secondary tumors, which most commonly have spread from tumors located outside the brain, known as brain metastasis tumors. All types of brain tumors may produce symptoms that vary depending on the size of the tumor and the part of the brain that is involved. Where symptoms exist, they may include headaches, seizures, problems with vision, vomiting and mental changes. Other symptoms may include difficulty walking, speaking, with sensations, or unconsciousness.

The cause of most brain tumors is unknown, though up to 4% of brain cancers may be caused by CT scan radiation. Uncommon risk factors include exposure to vinyl chloride, Epstein–Barr virus, ionizing radiation, and inherited syndromes such as neurofibromatosis, tuberous sclerosis, and von Hippel-Lindau Disease. Studies on mobile phone exposure have not shown a clear risk. The most common types of primary tumors in adults are meningiomas (usually benign) and astrocytomas such as glioblastomas. In children, the most common type is a malignant medulloblastoma. Diagnosis is usually by medical examination along with computed tomography (CT) or magnetic resonance imaging (MRI). The result is then often confirmed by a biopsy. Based on the findings, the tumors are divided into different grades of severity.

Treatment may include some combination of surgery, radiation therapy and chemotherapy. If seizures occur, anticonvulsant medication may be needed. Dexamethasone and furosemide are medications that may be used to decrease swelling around the tumor. Some tumors grow gradually, requiring only monitoring and possibly needing no further intervention. Treatments that use a person's immune system are being studied. Outcomes for malignant tumors vary considerably depending on the type of tumor and how far it has spread at diagnosis. Although benign tumors only grow in one area, they may still be life-threatening depending on their size and location. Malignant glioblastomas usually have very poor outcomes, while benign meningiomas usually have good outcomes. The average five-year survival rate for all (malignant) brain cancers in the United States is 33%.

Secondary, or metastatic, brain tumors are about four times as common as primary brain tumors, with about half of metastases coming from lung cancer. Primary brain tumors occur in around 250,000 people a year globally, and make up less than 2% of cancers. In children younger than 15, brain tumors are second only to acute lymphoblastic leukemia as the most common form of cancer. In New South Wales, Australia in 2005, the average lifetime economic cost of a case of brain cancer was AU\$1.9 million, the greatest of any type of cancer.

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