

Mouse Hematology

A humanized mouse or a humanized mouse model is one that has been xenotransplanted with human cells and/or engineered to express human gene products, so as to be utilized for gaining relevant insights in the in vivo context for understanding of human-specific physiology and pathologies. Several human biological processes have been explored using animal models like rodents and non-human primates. In particular, small animals such as mice are advantageous in such studies owing to their small size, brief reproductive cycle, easy handling and due to the genomic and physiological... 957f295995 Ley's research group focuses on the genetics and genomics of acute myeloid leukemia (AML). His lab studies the development of normal and leukemic blood cells. His work is focused on identifying the mutations and epigenetic events that are responsible for the initiation and progression of AML. 957f295995

Mouse model of colorectal and intestinal cancer They also provide a valuable biological system, to simulate human physiological conditions, suitable for testing therapeutics. These models enable researchers to study the onset, progression of the disease, and understand in depth the molecular events that contribute to the development and spread of colorectal cancer. Mouse models of colorectal cancer and intestinal cancer are experimental systems in which mice are genetically manipulated, fed a modified diet, or challenged Mouse models of colorectal cancer and intestinal cancer are experimental systems in which mice are genetically manipulated, fed a modified diet, or challenged with chemicals to develop malignancies in the gastrointestinal tract 957f295995

Mouse Phenome Database MPD characterizes phenotype as well as genotype, and provides tools for online analysis. Genotype data are primarily in the form of single-nucleotide polymorphisms. Most phenotype data are in the form of strain surveys (comparisons of 10-40 commonly used mouse strains) and cover such areas as hematology, bone mineral density, cholesterol levels, endocrine function, and aging processes. Data are contributed by participating scientists or downloaded from public resources. strain surveys (comparisons of 10-40 commonly used mouse strains) and cover such areas as hematology, bone mineral density, cholesterol levels, endocrine The Mouse Phenome Database (MPD) is a web-accessible database of strain characterization data for the laboratory mouse, to facilitate translational research for human health and disease 957f295995

Scott A. Armstrong Following this, Armstrong was the recipient of the 2000 American Society of Hematology Scholar Award Fellowship. Armstrong is a co-editor of the Annual Review of Cancer Biology. Armstrong and his team were the first to isolate rare leukemia stem cells in a mouse model of leukemia. As an instructor in pediatric oncology at the Scott Allen Armstrong is an American pediatric oncologist and cancer biologist focused on chromatin-based control of gene expression in cancer and therapeutic discovery 957f295995

Kenneth Kaushansky Ranney Professor, and chair of the department of medicine at University of California, San Diego School of Medicine. than in hematology". In a Q&A session with the American Society of Hematology, Kaushansky recalled: Following my clinical training in

hematology, I entered Kenneth Kaushansky (born October 20, 1953) is an American medical doctor, hematologist, former editor of the medical journal *Blood*, and served as the dean of the Stony Brook University School of Medicine from 2010 to 2021. Prior to moving to Stony Brook, he was the Helen M 957f295995

The MPD was begun in 2000, is funded by grants from the National Institutes of Health and other sources, and is headquartered at The Jackson... 957f295995

ADAMTS13 PMID 11843286. factor-cleaving protease and Upshaw-Schulman syndrome". It is secreted into the blood and degrades large vWf multimers, decreasing their activity, hence ADAMTS13 acts to reduce thrombus formation. *International Journal of Hematology*. doi:10.1007/BF02981975. 75 (1): 25-34. S2CID 19926816 ADAMTS13 (a disintegrin and metalloproteinase with a thrombospondin type 1 motif, member 13)—also known as von Willebrand factor-cleaving protease (VWFCP)—is a zinc-containing metalloprotease enzyme that cleaves von Willebrand factor (vWf), a large protein involved in blood clotting 957f295995

NOG mouse The NOG mouse was generated in CIEA in 2000 by back-cross mating of C57BL/6J-IL-2R^{ynull} mouse that was originally A NOG (NOD/Shi-scid/IL-2R^{ynull}) mouse is a new generation of severely immunodeficient mouse, developed by Central Institute for Experimental Animals (CIEA) in 2000. This unique feature offers a great opportunity for enhancing therapy researches of cancer, leukemia, visceral diseases, AIDS, and other human diseases. regeneration, and hematology researches. It also provides applications for cancer, infection, regeneration, and hematology researches. Thus, the mouse can be the best model as a highly efficient recipient of human cells to engraft, proliferate and differentiate. The NOG mouse accepts heterologous cells much more easily compared with any other type of immunodeficient rodent models, such as nude mouse and NOD/scid mouse 957f295995

Ley led the team that sequenced the first cancer genome... 957f295995

Timothy J. Ley Siteman Cancer Center. and Rosalind B. He is the Lewis T. He is the co-director of the Oliver Langenberg Physician-Scientist Training Program in the Department of Medicine, and is a member of the Alvin J. Ley is an American hematologist and cancer biologist. Apple Professor of Oncology in the department of medicine, and former chief of the section of stem cell biology in the division of oncology at Washington University in St. Donnall Thomas Prize, American Society of Hematology, 2012 Recipient, The George Timothy J. Recipient, The Erasmus Hematology Award, Erasmus MC, 2015 Recipient, E. Louis 957f295995

Laboratory mouse Lab mice are sold at pet stores for snake. Laboratory animal sources for these mice are usually of the species *Mus musculus*. Laboratory The laboratory mouse or lab mouse is a small mammal of the order Rodentia which is bred and used for scientific research or feeders for certain pets. The laboratory mouse or lab mouse is a small mammal of the order Rodentia which is bred and used for scientific research or feeders for certain pets. The laboratory mouse genome has been sequenced and many mouse genes have human homologues. They are the most commonly used mammalian research model and are used for research in genetics, physiology, psychology, medicine and other scientific disciplines. This close relationship, the associated high homology with humans, their ease of maintenance and handling, and

their high reproduction rate, make mice particularly suitable models for human-oriented research. Mice belong to the Euarchontoglires clade, which includes humans 957f295995

Humanized mouse 10 (1): 162. Journal of Hematology & Oncology. pre-clinical patient-derived liquid xenograft mouse model for acute myeloid leukemia". Humanized mice are commonly used as small animal models in biological and medical research for human therapeutics. 1186/s13045-017-0532-x A humanized mouse is a genetically modified mouse that has functioning human genes, cells, tissues and/or organs. doi:10 957f295995

Erythroferrone Erythroferrone is produced by erythroblasts, inhibits the production of hepcidin in the liver, and so increases the amount of iron available for hemoglobin synthesis. Skeletal muscle secreted ERFE has been shown to maintain systemic metabolic homeostasis. Missing Link in Iron Regulation". American Society of Hematology. Archived from the original on 28 January 2019. The Hematologist. Retrieved 26 August 2015 Erythroferrone is a protein hormone encoded in humans by the ERFE gene 957f295995

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