



MMHCC Newsletter September 2009

MouseLine

The NCI-MMHCC is Renewed for Five Years

The NCI-Mouse Models of Human Cancers Consortium is beginning a new project period with a number of changes in membership and structure. For the next five years of this program, the NCI will support the Consortium to extend the integral use of mouse models and other mouse genetic resources to a wider variety of translational, clinical, and epidemiology problems. To be effective in this venture, which involves collaborations with many other communities of research, the Consortium now has four Leadership groups – Biology, Therapy, Genetics, and Prevention. The groups have three functions: To ensure that intra-Consortium activities in these areas are coordinated; to implement connections to other NCI-sponsored networks and consortia; and to facilitate interactions with the wider cancer research community, including philanthropies and industry.



Achieving these connections will require enhanced communication to other research communities. The NCI is renovating the eMICE website – electronic Models Information, Communication, and Education site – to contain much broader and deeper information about how mouse models are generated, applied to human research problems, and deployed to researchers. The site will have new communications and education tools. It will also provide links to the growing suite of informatics resources that the NCI is developing to integrate information about a variety of cancer models into human cancer research accessible through the cancer Biomedical Informatics Grid (caBIG®).

This newsletter will provide to our readers new opportunities to work with the NCI to grow the eMICE website into a comprehensive resource of information about effective basic, translational, and clinical use of animal and other models for cancer investigations. The newsletter will also convey to the cancer research community new possibilities to participate in NCI-MMHCC activities that connect this program to other of the NCI's programs.



Meetings

September 20 – 24, 2009

Phenotyping Mouse Models of Human Lung Disease

Bar Harbor, Maine

Meeting Information: <http://courses.jax.org/2009/pulmonary09.html>

September 21 – 23, 2009

CHI's-3rd Annual Exploring Next-Generation Sequencing

Providence, Rhode Island

Meeting Information: <http://www.healthtech.com/sda?c=6910>

September 22 – 25, 2009

CHI's-ADAPT 2009-Accelerating Development & Advancing Personalized Therapy

Washington, D.C.

Meeting Information: <http://www.adaptcongress.com/>

September 24 – 25, 2009

CHI's-Targeted Therapy: Towards Individualized Cancer Treatment

Washington, DC

Meeting Registration Information: <http://www.adaptcongress.com/nct>

September 29 – October 3, 2009

Workshop on Techniques in Modeling Human Colon Cancer in Rodents

Bar Harbor, Maine

Meeting Information: <http://courses.jax.org/2009/colontech09.html>

October 6 – 9, 2009

Colon Cancer in Murine Models and Humans III

Bar Harbor, Maine

Meeting Information: <http://courses.jax.org/2009/coloncancer09.html>



Notices and Funding Opportunities

Diet, Epigenetic Events, and Cancer Prevention (R01, R21)

PA-09-234 and PA-09-235

National Cancer Institute

National Institute on Alcohol Abuse and Alcoholism

Office of Dietary Supplements

<http://grants.nih.gov/grants/guide/pa-files/PA-09-234.html>

<http://grants.nih.gov/grants/guide/pa-files/PA-09-235.html>

SCAW IACUC-Advanced Workshop: September 11, 2009 in Beaverton, OR

NOT-OD-09-130

National Institutes of Health

<http://grants.nih.gov/grants/guide/notice-files/NOT-OD-09-130.html>

Administrative Supplements for Pilot Studies on Health Span Measurements in Mice

NOT-AG-09-006

National Institute on Aging

<http://grants.nih.gov/grants/guide/notice-files/NOT-AG-09-006.html>

Genetic and Genomic Analysis of Xenopus (R01, R21, R03)

(PAR-09-240, PAR-09-241, PAR-09-242)

Multiple Institutes

Trans-NIH Xenopus Working Group

<http://grants.nih.gov/grants/guide/pa-files/PAR-09-240.html>

<http://grants.nih.gov/grants/guide/pa-files/PAR-09-241.html>

<http://grants.nih.gov/grants/guide/pa-files/PAR-09-242.html>

Innovations in Biomedical Computational Science and Technology (R01, SBIR [R43/R44]), STTR [R41/R42])

PAR-09-218, PAR-09-220, PAR-09-221

Multiple Institutes

<http://grants.nih.gov/grants/guide/pa-files/PAR-09-218.html>

<http://grants.nih.gov/grants/guide/pa-files/PAR-09-220.html>

<http://grants.nih.gov/grants/guide/pa-files/PAR-09-221.html>

Immunobiology of Xenotransplantation (U01, U19)

RFA-AI-09-035

National Institute of Allergy and Infectious Diseases

<http://grants.nih.gov/grants/guide/rfa-files/RFA-AI-09-035.html>



Non-Human Primate Heart/Lung Transplantation Tolerance (U01, U19)

RFA-AI-09-041

National Institute of Allergy and Infectious Diseases

<http://grants.nih.gov/grants/guide/rfa-files/RFA-AI-09-041.html>

The Biology of Estrogen Receptor-Negative Breast Cancer in Various Racial and Ethnic Groups (U01)

RFA-CA-09-026

National Cancer Institute

<http://grants.nih.gov/grants/guide/rfa-files/RFA-CA-09-026.html>

Beta Cell Biology Consortium (U01)

RFA-DK-09-011

National Institute of Diabetes and Digestive and Kidney Diseases

<http://grants.nih.gov/grants/guide/rfa-files/RFA-DK-09-011.html>

Image-guided Drug Delivery in Cancer (R01)

PA-09-253

National Cancer Institute

<http://grants.nih.gov/grants/guide/pa-files/PA-09-253.html>

Centers for Medical Countermeasures Against Radiation (U19)

RFA-AI-09-036

National Institute of Allergy and Infectious Diseases

<http://grants.nih.gov/grants/guide/rfa-files/RFA-AI-09-036.html>

Repository News

The MMHCC Mouse Repository is an NCI-supported resource for the distribution of mouse cancer models and associated strains. The Repository makes strains available to all members of the scientific community. Up to 3 breeder pairs of each available strain may be ordered.

Newly accepted strains

The following strain has recently been accepted into the MMHCC Repository and is available for distribution (*please click on the specific link, below, for additional information*):

1. B6;129P2-*Nras*^{tm1Rak} (N-ras null, Nras KO)
http://mouse.ncifcrf.gov/available_details.asp?ID=01XBC

More information can be found on the Mouse Repository's website: <http://mouse.ncifcrf.gov>



What's new in caMOD

The following models have been approved for public display since the last newsletter was published. Visit <http://cancermodels.nci.nih.gov> to learn more about these new models.

Model ID	ModelDescriptor	Species
50062097	B6;D2-Tg(WAP-T ₁₂₁)Tvd	Mouse
50062183	TgWAP-Myc	Mouse
50062112	BALB/cJ-Tg(WAP-T ₁₂₁)Tvd	Mouse
50062125	TgWAP-T121 x p53+/+	Mouse
50062133	TgWAP-T121 x p53+/-	Mouse
50062140	TgWAP-T121 x p53-/-	Mouse
50061959	Activator Protein-1 Transcription Factors Are Associated with Progression and Recurrence of Prostate Cancer	Mouse
50062005	K14-cre; ApcCKO/+	Mouse

News from the Knock Out Mouse Project (KOMP)

The KOMP Repository is the official archive and distribution center for the Knockout Mouse Project (KOMP), a major 5-year trans-NIH initiative designed to generate null alleles in C57BL/6 embryonic stem (ES) cells for most genes not already available as knockout mice. Nearly 8500 genes are targeted for deletion, most in a conditional-ready format, by mutagenesis teams at "CSD" (Childrens Hospital of Oakland Research Institute, The Sanger Institute, and UC Davis) and at Regeneron, Inc. You can obtain targeting vectors, ES cells, mice, and germplasm, as well as microinjection, genotyping, cryopreservation, breeding, and other services quickly and at reasonable cost to help you with your research project.

<http://www.komp.org>

Symbol	Gene Name	Gene Info Page
1600015I10Rik	RIKEN cDNA 1600015I10 gene	http://www.komp.org/geneinfo.php?geneid=1994
1810011O10Rik	RIKEN cDNA 1810011O10 gene	http://www.komp.org/geneinfo.php?geneid=3606
1810026J23Rik	RIKEN cDNA 1810026J23 gene	http://www.komp.org/geneinfo.php?geneid=3719
4933407P14Rik	RIKEN cDNA 4933407P14 gene	http://www.komp.org/geneinfo.php?geneid=11106
Abcb5	ATP-binding cassette, sub-family B (MDR/TAP), member 5	http://www.komp.org/geneinfo.php?geneid=17953
Adra2a	adrenergic receptor, alpha 2a	http://www.komp.org/geneinfo.php?geneid=18462
Adra2b	adrenergic receptor, alpha 2b	http://www.komp.org/geneinfo.php?geneid=18463
Akp3	alkaline phosphatase 3, intestine, not Mn requiring	http://www.komp.org/geneinfo.php?geneid=22618
Amh	anti-Mullerian hormone	http://www.komp.org/geneinfo.php?geneid=23209
Ang6	angiogenin, ribonuclease A family, member 6	http://www.komp.org/geneinfo.php?geneid=23267
Asphd1	aspartate beta-hydroxylase domain containing 1	http://www.komp.org/geneinfo.php?geneid=15554
Asrgl1	asparaginase like 1	http://www.komp.org/geneinfo.php?geneid=23928



Atp6v1e2	ATPase, H ⁺ transporting, lysosomal V1 subunit E2	http://www.komp.org/geneinfo.php?geneid=24142
B3galt1 BC014805	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 1 cDNA sequence BC014805	http://www.komp.org/geneinfo.php?geneid=28172 http://www.komp.org/geneinfo.php?geneid=29191
Bmi1	Bmi1 polycomb ring finger oncogene	http://www.komp.org/geneinfo.php?geneid=30349
Bmp6	bone morphogenetic protein 6	http://www.komp.org/geneinfo.php?geneid=30367
C1galt1c1	C1GALT1-specific chaperone 1	http://www.komp.org/geneinfo.php?geneid=31135
Calhm1	calcium homeostasis modulator 1	http://www.komp.org/geneinfo.php?geneid=90594
Cbln2	cerebellin 2 precursor protein	http://www.komp.org/geneinfo.php?geneid=33194
Ccdc116	coiled-coil domain containing 116	http://www.komp.org/geneinfo.php?geneid=33251
Cd14	CD14 antigen	http://www.komp.org/geneinfo.php?geneid=33494
Cdkn1c	cyclin-dependent kinase inhibitor 1C (P57)	http://www.komp.org/geneinfo.php?geneid=33767
Clec14a Cln5	C-type lectin domain family 14, member a ceroid-lipofuscinosis, neuronal 5	http://www.komp.org/geneinfo.php?geneid=34388 http://www.komp.org/geneinfo.php?geneid=34451
Creld1	cysteine-rich with EGF-like domains 1 cleavage stimulation factor, 3' pre-RNA	http://www.komp.org/geneinfo.php?geneid=34976
Cstf2t	subunit 2, tau	http://www.komp.org/geneinfo.php?geneid=35235
Cutc	cutC copper transporter homolog (E.coli)	http://www.komp.org/geneinfo.php?geneid=35366
Dbndd2	dysbindin (dystrobrevin binding protein 1)	http://www.komp.org/geneinfo.php?geneid=53625
Defb12	domain containing 2 defensin beta 12	http://www.komp.org/geneinfo.php?geneid=53795
Dem1	defects in morphology 1 homolog (S. cerevisiae)	http://www.komp.org/geneinfo.php?geneid=7967
Dhh	desert hedgehog	http://www.komp.org/geneinfo.php?geneid=54121
Dlx2	distal-less homeobox 2	http://www.komp.org/geneinfo.php?geneid=54251
Dusp2	dual specificity phosphatase 2	http://www.komp.org/geneinfo.php?geneid=54686
Eef1b2	eukaryotic translation elongation factor 1 beta 2	http://www.komp.org/geneinfo.php?geneid=56397
Elane	elastase, neutrophil expressed	http://www.komp.org/geneinfo.php?geneid=56618
Exosc3	exosome component 3	http://www.komp.org/geneinfo.php?geneid=57433
Ffar1	free fatty acid receptor 1	http://www.komp.org/geneinfo.php?geneid=57915
Foxo6	forkhead box O6	http://www.komp.org/geneinfo.php?geneid=58247
Gdnf	glial cell line derived neurotrophic factor	http://www.komp.org/geneinfo.php?geneid=58893
Glp1	GATA-like 1	http://www.komp.org/geneinfo.php?geneid=90609
Gm266	predicted gene 266	http://www.komp.org/geneinfo.php?geneid=60313
Gm5077	predicted gene 5077	http://www.komp.org/geneinfo.php?geneid=87851
Gpr87	G protein-coupled receptor 87	http://www.komp.org/geneinfo.php?geneid=61476
Hes7	hairy and enhancer of split 7 (Drosophila)	http://www.komp.org/geneinfo.php?geneid=62678
Ifitm2	interferon induced transmembrane protein 2	http://www.komp.org/geneinfo.php?geneid=64212
Il1r2	interleukin 1 receptor, type II	http://www.komp.org/geneinfo.php?geneid=64584
Kcnab3	potassium voltage-gated channel, shaker- related subfamily, beta member 3	http://www.komp.org/geneinfo.php?geneid=65308
Kcne3	potassium voltage-gated channel, Isk- related subfamily, gene 3	http://www.komp.org/geneinfo.php?geneid=65324



Lta	lymphotoxin A	http://www.komp.org/geneinfo.php?geneid=67042
Mapk7	mitogen-activated protein kinase 7	http://www.komp.org/geneinfo.php?geneid=67713
Mia1	melanoma inhibitory activity 1	http://www.komp.org/geneinfo.php?geneid=68222
Mrgprh	MAS-related GPR, member H	http://www.komp.org/geneinfo.php?geneid=69274
Mrps17	mitochondrial ribosomal protein S17	http://www.komp.org/geneinfo.php?geneid=69344
Nsg1	neuron specific gene family member 1	http://www.komp.org/geneinfo.php?geneid=70999
P2ry4	pyrimidinergic receptor P2Y, G-protein coupled, 4	http://www.komp.org/geneinfo.php?geneid=73334
Paip2b	poly(A) binding protein interacting protein 2B	http://www.komp.org/geneinfo.php?geneid=29215
Phpt1	phosphohistidine phosphatase 1	http://www.komp.org/geneinfo.php?geneid=74247
Rasd1	RAS, dexamethasone-induced 1	http://www.komp.org/geneinfo.php?geneid=76321
Rnf181	ring finger protein 181	http://www.komp.org/geneinfo.php?geneid=5762
Sectm1b	secreted and transmembrane 1B	http://www.komp.org/geneinfo.php?geneid=78442
Serpib9b	serine (or cysteine) peptidase inhibitor, clade B, member 9b	http://www.komp.org/geneinfo.php?geneid=78607
Sidt1	SID1 transmembrane family, member 1	http://www.komp.org/geneinfo.php?geneid=78915
Sit1	suppression inducing transmembrane adaptor 1	http://www.komp.org/geneinfo.php?geneid=78973
Ssxa1	synovial sarcoma, X member A, breakpoint 1	http://www.komp.org/geneinfo.php?geneid=80348
Susd3	sushi domain containing 3	http://www.komp.org/geneinfo.php?geneid=80680
Timm8a2	translocase of inner mitochondrial membrane 8 homolog a2 (yeast)	http://www.komp.org/geneinfo.php?geneid=84144
Tmub1	transmembrane and ubiquitin-like domain containing 1	http://www.komp.org/geneinfo.php?geneid=84609
Tnfsf12	tumor necrosis factor (ligand) superfamily, member 12	http://www.komp.org/geneinfo.php?geneid=84673
Tnfsf4	tumor necrosis factor (ligand) superfamily, member 4	http://www.komp.org/geneinfo.php?geneid=84680
Trim35	tripartite motif-containing 35	http://www.komp.org/geneinfo.php?geneid=84994
Tslp	thymic stromal lymphopoietin	http://www.komp.org/geneinfo.php?geneid=85208
U2af114	U2 small nuclear RNA auxiliary factor 1-like 4	http://www.komp.org/geneinfo.php?geneid=85485
Wdr6	WD repeat domain 6	http://www.komp.org/geneinfo.php?geneid=86457

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