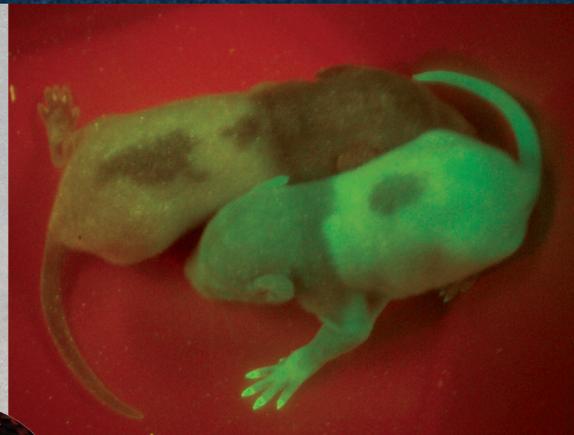


2012





**This calendar is dedicated to
the rat research community.
Thank you for your continued
support and encouragement!**

*In addition, RGD's 2012 calendar is dedicated
to the memory of Dr. John Critser, Director of the
Rat Resource & Research Center (RRRC) until
his untimely death earlier this year. His efforts and
energy made our little research world a lot better.
We continue to miss him.*

With appreciation,
The RGD Team

Male 18 month old Albino.
Photo courtesy of Joanne Bella Hodges.



Parental strains for the FHH-Chr n^{BN}
consomic set: BN/SsNHsdMcwi on
the left and FHH/EurMcwi on the right.
Photo submitted by the Tordoff lab, Monell
Chemical Senses Center, Philadelphia;
photography, Paola Noguerras.
<http://www.monell.org>

January 2012

Sun	Mon	Tues	Wed	Thur	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

"Rat Cake" — Rat and microscope made of marzipan. Photo submitted by Dr. Michal Pravenec, Institute of Physiology, Academy of Sciences of the Czech Republic. <http://sun2.biomed.cas.cz/fgu/en/>



February 2012

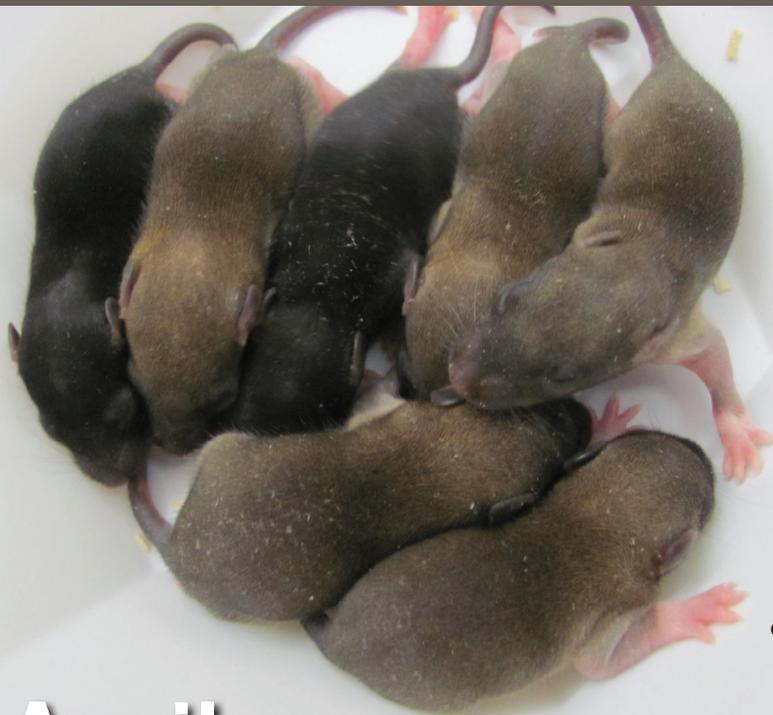
Sun	Mon	Tues	Wed	Thur	Fri	Sat
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26	27	28	29			

Weanling WAG/RijYcb (WAG-Fg^{mtYcb}) rats with Hemophilia A.
Reference: Booth et al., J Thromb Haemost. 2010 Nov;
8(11):2472–2477. Epub 2010 Jul 1, PMID: 20626616.
Photos courtesy of Dr. Carmen Jane Booth, Section of
Comparative Medicine, Yale Medical School, New Haven, CT.
<http://medicine.yale.edu/compmed/people/booth.aspx>



March 2012

Sun	Mon	Tues	Wed	Thur	Fri	Sat
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13 day old black homozygous ASIP knockout pups with agouti heterozygous and wild-type littermates (F2 generation of strain ACI.FHH-(D1Mit18-D1Rat90)(D14Mit11-D14Rat33)(D14Rat65-D14Rat90)/EurMcwi-Asip^{em1Mcwi}, RGD:5144102). ASIP knockout is due to a ZFN-induced 5 bp deletion in exon 2. Generated by Dr. Aron Geurts and Dr. Howard Jacob. Photo by Dr. Caitlin O'Meara. <http://www.mcw.edu/HMGC.htm>

April 2012

Sun	Mon	Tues	Wed	Thur	Fri	Sat
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29	30					



Approximately 2 week old NMCwi:HS Heterogeneous Stock rats (RGD:2314009) developed at NIH by Dr. Carl Hansen (Hansen and Spuhler, 1984), transferred to Dr. Eva Redei at Northwestern University, then to MCW in 2005. Colony is currently maintained in the Solberg Woods lab. Photos by Dr. Leah Solberg Woods and Katie Holl. <http://www.mcw.edu/HMGC/Laboratories/SolbergWoodsLeahPhD.htm>

May 2012

Sun	Mon	Tues	Wed	Thur	Fri	Sat
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27	28	29	30	31		

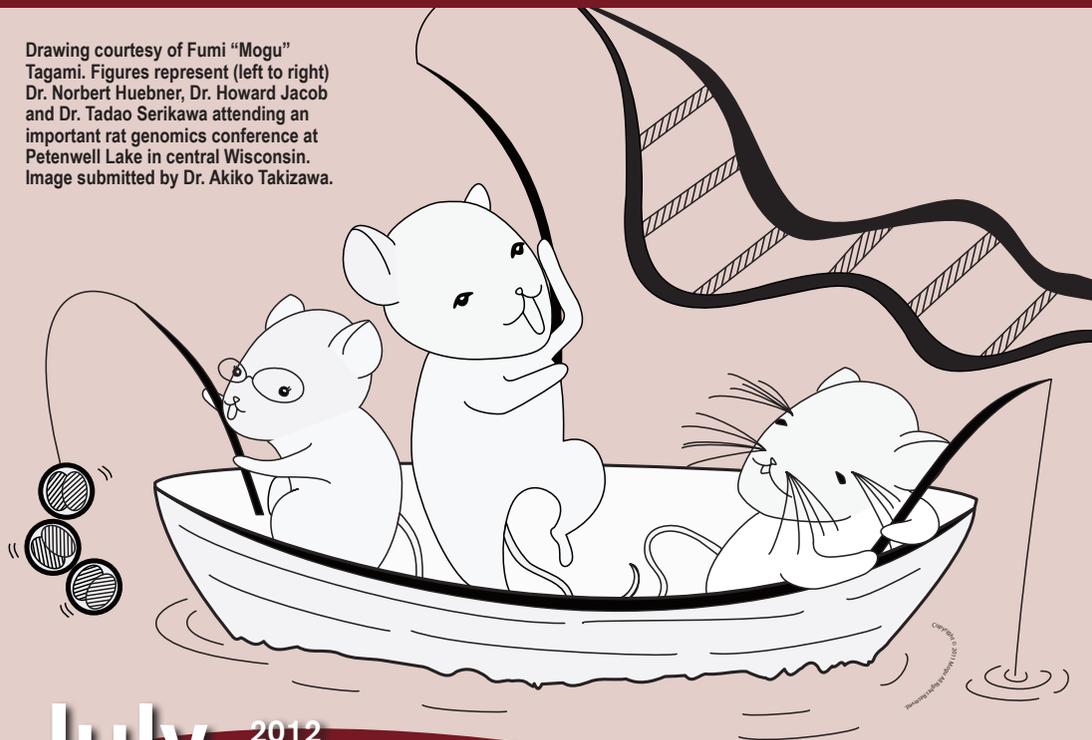
Agouti BDIX rat with two hooded BDIV rats used for carcinogenesis studies. BDIX animals are very sensitive to ENU-induced carcinogenesis in the nervous system while BDIV rats are resistant. Photo courtesy of Dr. Andrea Kindler-Röhrborn, Institut für Pathologie und Neuropathologie, Universitätsklinikum Essen, Germany. http://www.uk-essen.de/pathologie/index_start.php



June 2012

Sun	Mon	Tues	Wed	Thur	Fri	Sat
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Drawing courtesy of Fumi "Mogu" Tagami. Figures represent (left to right) Dr. Norbert Huebner, Dr. Howard Jacob and Dr. Tadao Serikawa attending an important rat genomics conference at Petenwell Lake in central Wisconsin. Image submitted by Dr. Akiko Takizawa.



July 2012

Sun	Mon	Tues	Wed	Thur	Fri	Sat
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“Woody” — a heterozygous Rex with Congenital Aganglionic Megacolon. Upper and lower insets show Woody with a larger, healthy sibling. Painting and photos by Joanne Bella Hodges. <http://ratguide.com>



August 2012

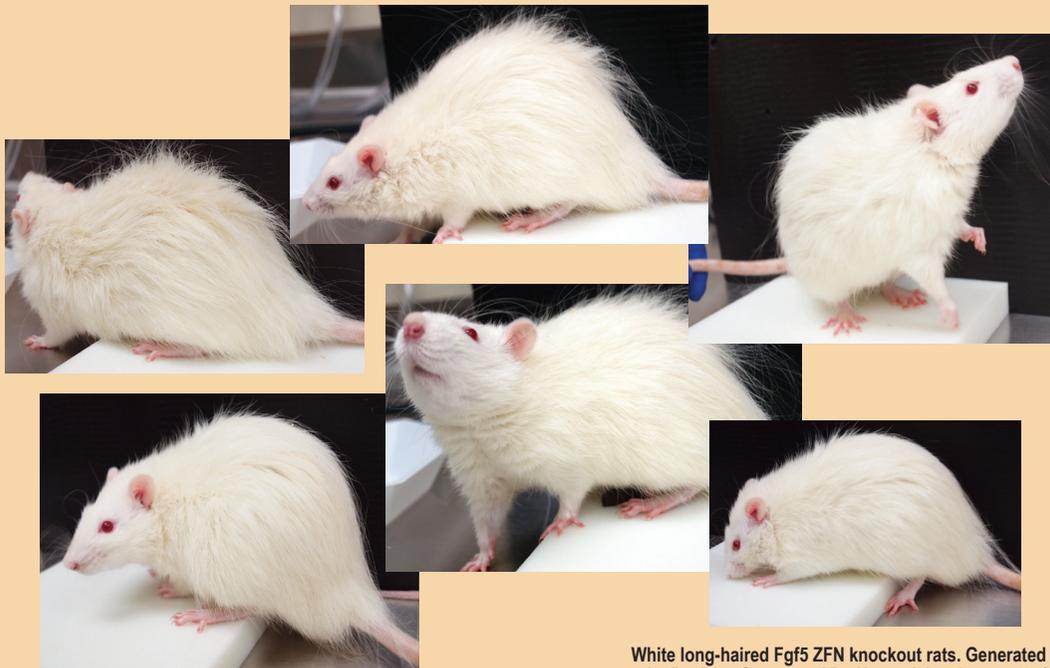
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University of Wisconsin Copenhagen female (left) and male (right) rats with hooded and blaze phenotypes. Rats generated by Dr. Kathy Krentz and Dr. William F. Dove, courtesy of Dr. Michael Gould. Photo submitted by Dr. James Amos-Landgraf and Dr. Amy Irving, McArdle Laboratory for Cancer Research, University of Wisconsin — Madison.
<http://mcardle.oncology.wisc.edu/dove/>



September 2012

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White long-haired *Fgf5* ZFN knockout rats. Generated by Dr. Aron Geurts and Dr. Howard Jacob as part of the PhysGen Knockout Program. Photos by Michael Grzybowski. <http://rgd.mcw.edu/wg/physgenknockouts>

October 2012

Sun	Mon	Tues	Wed	Thur	Fri	Sat
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28	29	30	31			



LEW/SsNHsd rats sleeping peacefully.
Photo courtesy of Dr. Camilo Durán,
Sala de Experimentación Animal,
Pontificia Universidad Javeriana.
<http://www.javeriana.edu.co/>



November 2012

Sun	Mon	Tues	Wed	Thur	Fri	Sat
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“Jace” — 22 month old Homozygous
Russian Blue, Heterozygous Burmese, Dumbo.
Photo courtesy of Joanne Bella Hodges.
<http://ratguide.com>



December 2012

Sun	Mon	Tues	Wed	Thur	Fri	Sat
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23	24	25	26	27	28	29
30	31					

Please continue to support RGD by visiting our website at <http://rgd.mcw.edu>

Drawings representing Dr. Howard Jacob (upper left) and Dr. Jozef Lazar (lower right) courtesy of Fumi "Mogu" Tagami. Images submitted by Dr. Akiko Takizawa.

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Co-Investigators:
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Diane Munzenmaier, PhD
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Liz Worthey, PhD

Research Scientists and Curators:
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Stan Laulederkind, PhD
Victoria Petri, PhD
Rajni Nigam, MS
Jennifer Smith, MS
Tom Hayman, PhD
Tim Lowry, PhD
Shur-Jen Wang, PhD

Bioinformatics Manager:
Jeff DePons

Developers:
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Weisong Liu, PhD
Marek Tutaj, MS

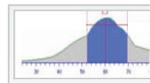
Database Administrator:
Stacy Zacher, MS



Genes
Map positions, functions and more



Strains
Search Strains



QTL
Phenotypes & Traits linked to the genome



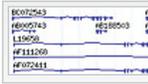
Function
Gene Ontology, Phenotype, Pathway info



Diseases
Genes, QTL & Strains related to Disease



Phenotypes & Models
Phenotype data, Assays, Husbandry and more



Rat Genome
Browse the Rat Genome



Genome Tools
Data mining, analysis and visualization



Pathways
Pathway reports and diagrams

COVER PHOTOS

Top right: GFP rat with primary expression in the toenails. Developed by Dr. Aron Geurts, photo by Michael Grzybowski. All other cover photos courtesy of Joanne Bella Hodges.

Top left: 5 month old female American blue homozygous Dalmatian Dumbo. 21 month old male black homozygous Dalmatian Dumbo.

Inset photos, left to right:

- "Stumpy" (aka Clark) — 16 month old Fawn rat (agouti with red eye (r) dilution)

- "Glam Rat" — 19 month old homozygous hairless female
- "Raith" — 10 month old homozygous Russian Blue Dumbo
- "Tail nomnomnom" — 6 day old male black Dumbo pup from an outcrossed Dalmatian line
- "Bermeece" — 6 month old Homozygous Sable Burmese/Siamese Dumbo

