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

With appreciation,
The RGD team
3 week old Kwl:LE (black hooded, RGD:9588298) and 8 week old CrljKwl:SD rats (RGD:9588294) playing with a traditional Japanese toy for New Year. Photography by Mr. Takao Nakagawa, Kiwa Laboratory Animals Co., Ltd. Wakayama, Japan. Photos submitted by Dr. Masayuki Anzai of the Institute of Advanced Technology, Kinki University, Higashiosaka City, Osaka, Japan.

http://www.kindai.ac.jp/english/

January 2015

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WAG/RijYcb (WAG-F8<sup>m1Ycb</sup>, RGD:2314904) rat with Hemophilia A. Photo courtesy of Dr. Carmen Jane Booth, Section of Comparative Medicine, Yale School of Medicine, New Haven, CT, USA.

http://medicine.yale.edu/ysm/carmen_booth.profile?source=news
NMcwi:HS Heterogeneous Stock rats (RGD:2314009) from the colony maintained in the Solberg Woods lab at MCW. Photos courtesy of Dr. Leah Solberg Woods and Ms. Katie Holl. Human and Molecular Genetics Center, Medical College of Wisconsin, Milwaukee, WI, USA.

http://www.hmgc.mcw.edu/faculty/solberg-woods.htm
Top left: hybrid of Wistar and SS ZFN strains generated by Intra-cytoplasmic sperm injection (ICSI) from cryopreserved SS ZFN sperm using a semi-automated manipulator. Top right and bottom left: WKY pups. Center: two-cell SS embryos and pronucleus stage of ICSI. Photos courtesy of Dr. Tomo Etoh, Central Institute for Experimental Animals, Kawasaki City, Japan.

http://www.ciea.or.jp/en/rinen.html
Brown Norway rat from inbred generation 38. Genetic testing at Charles River Laboratories confirmed the strain to be homozygous for at least 106/107 genome-wide markers spaced at 15-20 cM intervals. Comparison of these rats with the BN/Crl substrain showed only 26.67% of markers identical between the two with all markers on the X chromosome being divergent. Colony maintained and photo courtesy of Jerome Donohoe, Agricultural Omega Solutions LLC, Milwaukee, WI, USA.

http://www.agriculturalomegasolutions.com/
Whiskers twitching,
Tip-toes tipping,
Pink tongue licking,
Do you have a treat for me?

Female fancy pet rats Sophie (tan hooded) and Chihiro (black hooded).
Photos and poem courtesy of Angela M. Goerndt, Department of Veterinary
Pathobiology, University of Missouri, Columbia, MO, USA.
http://vpbio.missouri.edu/index.html
Crlj:WI rat (RGD:2312504) playing with a bobble-head of Hank the Dog (unofficial mascot of the Milwaukee Brewers baseball team). Photos courtesy of Dr. Masumi Hirabayashi, National Institute for Physiological Sciences, Okazaki, Aichi, Japan.

http://www.nips.ac.jp/eng/
Henry, a Fawn Berkshire with a head spot. Photo courtesy of Joanne Bella Hodges, Senior Team Member, The Rat Guide.

http://ratguide.com
We leave sinking ships by the scores
We scurry around on all fours
Some shun us, you bet
But never forget
That we give our lives to save yours

— Limerick courtesy of an anonymous poet.

SD-Tg(UBC-DsRed-GFP)(Col1a(5A)-Cre)Narl double transgenic rat (RGD: 9587475). Rats were generated by Dr. Chi-Kuang Leo Wang, Dr. Si-Tse Jiang, Dr. Hsian-Jean Genie Chin and Ms. Hsiao-Hui Joyce Chang. Photo courtesy of Ms. Hsiao-Hui Joyce Chang, National Laboratory Animal Center, National Applied Research Laboratories, Nangang, Taipei, Taiwan.

http://www.nlac.org.tw/
NMcwi:HS Heterogeneous Stock
rats (RGD:2314009) from the colony
maintained in the Solberg Woods lab
at the Medical College of Wisconsin.
Photography by Dr. Hao Chen,
Department of Pharmacology, University
of Tennessee Health Sciences University,
Memphis, TN, USA. Photos submitted
by Dr. Chen and Dr. Abraham A. Palmer,
Department of Human Genetics,
University of Chicago, Chicago, IL, USA.

http://www.ratgenes.org
http://www.haochen.name
http://www.palmerlab.org

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Pups in cups: 8 week old CrljKwl:SD pups (RGD:9588294). Photography by Mr. Takao Nakagawa, Kiwa Laboratory Animals Co., Ltd. Wakayama, Japan. Photos submitted by Dr. Masayuki Anzai of the Institute of Advanced Technology, Kinki University, Higashiosaka City, Osaka, Japan.

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

Principal Investigator:
Howard Jacob, PhD

Co-Investigators:
Mary Shimoyama, PhD
Mindy Dwinell, PhD
Liz Worthey, PhD

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

Bioinformatics Manager:
Jeff De Pons

Developer:
Marek Tutaj, MS

Doctoral Student:
Aurash Mohaimani

Database Administrator:
Stacy Zacher, MS

Original artwork in construction paper, ink and glue by Ms. Mirren McCool, age 3.
Cover Photos

Photos A and E: NMcwi:HS Heterogeneous Stock rats (RGD:2314009) from the colony maintained in the Solberg Woods lab at the Medical College of Wisconsin. Photography by Dr. Hao Chen, Department of Pharmacology, University of Tennessee Health Sciences University, Memphis, TN, USA. Photos submitted by Dr. Chen and Dr. Abraham A. Palmer, Department of Human Genetics, University of Chicago, Chicago, IL, USA.

Photo B: D’Vito, a 24 month old Russian blue, rex, dumbo, male. Spider - age and type unknown. Photo courtesy of Joanne Bella Hodges, Senior Team Member, The Rat Guide.

Photo C: “Dream”: SD-Tg(UBC-DsRedT3-emGFP)26Narl rat pups (RGD: 9587470), generated by Dr. Chi-Kuang Leo Wang, Dr. Si-Tse Jiang, Dr. Hsian-Jean Genie Chin and Ms. Hsiao-Hui Joyce Chang. Photo courtesy of Ms. Hsiao-Hui Joyce Chang, National Laboratory Animal Center, National Applied Research Laboratories, Nangang, Taipei, Taiwan.

Photo D: 5 week old Russian blue Siamese dumbo pup with the dominant black eye gene (associated with the c-locus). The dominant black eye gene enables eye pigmentation in albino, Himalayan, and Siamese rats. Photo courtesy of Joanne Bella Hodges, Senior Team Member, The Rat Guide.

Photo F: Jamocha, a 20 month old Russian blue dumbo female. Photo courtesy of Joanne Bella Hodges, Senior Team Member, The Rat Guide.

Photo G: 4 week old Russian blue dumbo pup. Photo courtesy of Joanne Bella Hodges, Senior Team Member, The Rat Guide.