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

WITH APPRECIATION,
THE RGD TEAM

“Autumn”. Original painting by Drusilla Kehl, The Illustrated Rat. Used with permission of the artist.
http://www.illustratedrat.macwebsitebuilder.com
January 2019

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

“Winter is...Here!”. Original painting by Drusilla Kehl, The Illustrated Rat. Used with permission of the artist.
http://www.illustratedrat.macwebsitebuilder.com
Long Evans (blue spruce) outbred (HsdBlu:LE, RGD:5508398) and Sprague Dawley outbred (Hsd:SD, RGD:737903) rats being tracked via Yorodent software. Still shots extracted from a video. Photos courtesy of Dr. Hao Chen, Department of Pharmacology, University of Tennessee Health Science Center, Memphis, TN, USA.

http://www.github.com/chen42/yorodent

https://www.martymousehouse.com/
Three-week-old albino Kl:Wistar rat playing with blocks. Photography by Mr. Takao Nakagawa, Kiwa Laboratory Animals Co., Ltd., Wakayama, Japan. Photos submitted by Dr. Masayuki Anzai, Institute of Advanced Technology, Kindai University, Kainan City, Wakayama, Japan.

http://www.kwl-a.co.jp
http://www.waka.kindai.ac.jp/tea/sentan/index.html
May 2019

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

“Mom is Busy!” and “The Thinker”. Photos courtesy of Dr. Masumi Hirabayashi, Section of Mammalian Transgenesis, Center for Genetic Analysis of Behavior, National Institute for Physiological Sciences, Okazaki, Aichi, Japan.

https://www.nips.ac.jp/mamtg/
June 2019

Six-month-old female Sprague-Dawley rat. Photo by Dr. Carmen J. Booth, DVM, Section of Comparative Medicine, Yale School of Medicine, New Haven, CT, USA.

https://www.medicine.yale.edu/people/search/carmen_booth.profile
Long Evans (black hooded) and Wistar (white) rats derived from two-cell stage embryos vitrified using P10 and PEPeS (PMID: 26017290). Rats cryopreserved and rederived by, and photos courtesy of, Dr. Tomoo Etoh, Reproductive Engineering Laboratory, Central Institute for Experimental Animals, Kawasaki City, Japan.

https://www.ciea.or.jp/en/rinen.html
Rex, French Siamese and Tonkinese (Texas Siamese) pups. Upper left: litter of 8 male Rex, French Siamese and Tonkinese pups. Upper right: white faced Tonkinese male. Lower left: white faced Tonkinese male. Lower right: two Tonkinese females with headspot and messy blaze. Rats raised by and photos courtesy of Concepcion Perez, University of California, Berkeley, CA, USA.
“Hibernation”. A live, torpid (hibernating) 13-lined ground squirrel, original photograph by Dr. Matt Andrews’ laboratory, University of Minnesota, Duluth, MN. Artwork by Dr. Jingxing Ou, National Eye Institute, Bethesda, MD. Squirrel raised and photo submitted by Dr. Dana Merriman, Medical College of Wisconsin and University of Wisconsin-Oshkosh, Oshkosh, WI, USA.

https://www.cell.com/cell/fulltext/S0092-8674(18)30290-3
E4.5 Crlj:Wistar (RGD: 2312504) rat blastocyst immunostained with anti-SOX2 (green), anti-SOX17 (red) and anti-CDX2 (blue) antibodies. Photos courtesy of Dr. Toshihiro Kobayashi and Dr. Masumi Hirabayashi, Section of Mammalian Transgenesis, Center for Genetic Analysis of Behavior, National Institute for Physiological Sciences, Okazaki, Aichi, Japan.

http://www.nips.ac.jp/mamtg/
November 2019

“Young Bonobo”. Photo courtesy of Joel R. Miller, Milwaukee County Zoo, Milwaukee, WI, USA.

https://www.milwaukeezoo.org/conservation/projects/apecardiovascular.php
December 2019

“Rat-dolf”. Russian Blue Dumbo. Rat bred by and photo courtesy of Joanne Bella Hodges, Senior Team Member, The Rat Guide.

http://ratguide.com
Principal Investigator
• Mary Shimoyama, PhD

Co-Investigator
• Mindy Dwinell, PhD

Research Scientists and Curators
• Elizabeth Bolton, MSc, MB(ASCP)cm
• Tom Hayman, PhD
• Matt Hoffman, BSc
• Stan Laulederkind, PhD
• Jennifer Smith, MSc
• Shur-Jen Wang, PhD
• Monika Tutaj, PhD

Bioinformatics Manager
• Jeff De Pons, BSc

Developers
• Marek Tutaj, MSc
• Jyothi Thota, MSc

PhD Candidates
• Cagatay Dursun, MSc

Database Administrator
• Stacy Zacher, MSc

Jayla, a pregnant Russian Blue Siamese Dumbo and Sophie, a hairless female. Rats bred by and photos courtesy of Joanne Bella Hodges, Senior Team Member, The Rat Guide.

http://ratguide.com

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

Calendar printing: Heritage Printing, https://www.clickheritage.com
Calendar design: Phil Friso, Cultivate Communications, https://www.cultivate-communications.com
Cover Photos
Top row, left to right:
“Marbles”. Three-week-old albino Kwl:Wistar rat playing with marbles and plush toys. Photography by Mr. Takao Nakagawa, Kiwa Laboratory Animals Co., Ltd., Wakayama, Japan. Photos submitted by Dr. Masayuki Anzai, Institute of Advanced Technology, Kindai University, Kainan City, Wakayama, Japan.
“Burmese Pup”. Burmese four-week-old male. Rat bred by, and photo courtesy of Joanne Bella Hodges, Senior Team Member, The Rat Guide.
“Blastocyst”. E4.5 Crlj:Wistar (RGD: 2312504) rat blastocyst immunostained with anti-SOX2 (green), anti-SOX17 (red) and anti-CDX2 (blue) antibodies. Photo courtesy of Dr. Toshihiro Kobayashi and Dr. Masumi Hirabayashi, Section of Mammalian Transgenesis, Center for Genetic Analysis of Behavior, National Institute for Physiological Sciences, Okazaki, Aichi, Japan.
Second row, left to right:
“Star the rat”. Photo courtesy of Keito Shimoyama, Milwaukee, WI, USA.
“American Gothic Hairless Rats”. Artwork by Joanne Bella Hodges, Senior Team Member, The Rat Guide.
“Best Buds”. Long Evans (black hooded) and Wistar (white) rats derived from two-cell stage embryos vitrified using P10 and PEPeS (PMID: 26017290). Rats cryopreserved and rederived, and photos courtesy of, Dr. Tomoo Etoh, Reproductive Engineering Laboratory, Central Institute for Experimental Animals, Kawasaki City, Japan.
Third row, left to right:
“Starry Night GS”. Original image, courtesy of Drs. Wei Li and Francisco Nadal-Nicolas, is of a live, torpid (hibernating) 13-lined ground squirrel at the UW-Oshkosh squirrel colony. Artwork by Dr. Jingxing Ou, National Eye Institute, Bethesda, MD 20892, USA.
“Bonobos—Mom and Baby”. Photo courtesy of Joel R. Miller, Milwaukee County Zoo, Milwaukee, WI, USA.
“Fuzzy Dog”. Original painting by Drusilla Kehl, The Illustrated Rat. Used with permission of the artist.
Photo at right
“Pizza Rat”. Original painting by Drusilla Kehl, The Illustrated Rat. Used with permission of the artist.