RAT GENOME DATABASE CALENDAR

2020 : Year of the Rat

2020

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

This calendar is also dedicated to our friend, the late Joanne Bella Hodges. Bella loved rats, enjoyed breeding them and interacting with them, and was always intrigued by the genetics behind the phenotypes she observed. Bella was a scientist at heart, a talented artist, a warm and generous friend, and a mentor to other rat owners. From her first photo in the 2011 Rat Calendar, Bella was a regular submitter to the calendar and a good friend to RGD. Her whimsical spirit, generosity and enthusiasm are greatly missed!

WITH APPRECIATION, THE RGD TEAM
Augie, a Russian Blue Silvermane Dumbo Rex, celebrates the New Year. Photo courtesy of Sarah Hunt, MartyMouseHouse.com.

https://www.martymousehouse.com
Wholemount immunostaining of Crlj:WI rat embryo at embryonic day 10.5. Tfap2c-positive cells (Red) at lower body are primordial germ cells, the founder cells of sperm and eggs, migrating toward gonads. Nuclei are counterstained with DAPI (White). 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.

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

Original haiku by Mary Kaldunski, Rat Genome Database, Medical College of Wisconsin, Milwaukee, WI, USA.

https://rgd.mcw.edu
Marten rats. Top left: four males, two whiteside, two solid. Top right: top view of a whiteside male Marten rat. Bottom left: side view of a male whiteside Marten rat showing the dark “pants” on the hind legs which distinguish whitesides from hooded rats. Bottom right: front view of a whiteside Marten male. Rats bred by and photos courtesy of Concepcion Perez, University of California, Berkeley, CA, USA.
Top left and bottom center: 14-week-old RCS-rdy+p+/LavRrrc congenic rat (RRRC# 0316, RGD:1358278, used for retinal research). Top center and bottom left: three-week-old RCS/LavRrrc inbred rats (RRRC# 0314, RGD:1358258, used for retinal research). Right: four- to six-week-old ZUC-Leprfa.BN-(D1Rat183-D1Rat90)/Ste congenic rat (RRRC#: 0837, RGD:14695034, used to study obesity, type 2 diabetes, renal disease). Information about these rats is available at RGD and RRRC, and all of these strains are available from the RRRC. Photos courtesy of Alexandra DeWitt, Rat Resource & Research Center, University of Missouri, Columbia, MO, USA.

http://www.rrrc.us
Top left: a Russian Blue Silvermane Harley. The Harley is a long-haired rat. Top right: a chocolate-capped blazed Harley. Bottom: a mink masked dwarf doe with litter. Rats bred by and photos courtesy of Nicole Kroha, Riffraff Rex Rattery, Milwaukee, WI, USA.

https://www.facebook.com/rrrrattery
Pearl, a four-month-old beige-capped and blazed doe, and Primrose, a four-month-old agouti hooded doe. Rats raised by and photo courtesy of Shelbie Lebbin.

See Pearl and Primrose on Instagram at crazy_rat_lady6.
Albino Kwl: Wistar rats prepare for the 2020 Olympic games in Tokyo. Top photos: The grueling climbing wall challenge. Bottom left and right: Sprint to the goal! Bottom center: Is this the ball for the soccer game? Center: Practice for the podium! 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
https://www.kindai.ac.jp/bost/about/advanced-technology
August 2nd is National Friendship Day and the rats are happy to have their friend Leia, the chinchilla, in the Year of the Rat calendar for August. (Don’t forget – RGD has data for chinchilla, too!) Chinchilla raised and photo courtesy of Rhonda Geoffrey, Medical College of Wisconsin, Milwaukee, WI, USA.
Top and bottom left: Anubis, a wild-born *Rattus rattus* from Chatsworth, CA. Top right: Jake (*R. norvegicus*) with a much younger Oliver, also *R. norvegicus*, from an adopted litter from the Orange County Shelter. Bottom right: Rigel (*R. norvegicus*) grooming herself atop a stack of books about rats. Photos courtesy of Dr. Kevin R. Grazier.

http://www.imdb.com/name/nm0337207
Bella loved Halloween so we have chosen a selection of her Halloween submissions for October. Top, left to right: D’Vito, a 24-month-old male Russian Blue Dumbo Rex (2015); Hallo, a three-week-old black recessive blazed, heterozygous Rex, Dumbo pup navigates a spider’s web (2013); Four-week-old Russian Blue Dumbo pup (2019).

Bottom, left to right: Jetta, a Russian Blue Dumbo female with recessive blazing, and her bony friend (2018); Jenzen perches (unhappily) on a witch’s hand (2015); Joell, a Russian Blue Dumbo, peeks out from a haunted house (2017). All rats bred by and photos courtesy of Joanne Bella Hodges.
Bean, a Burmese variegated Dumbo, is hiding from Mondays in his favorite sock! Photo courtesy of Sarah Hunt, MartyMouseHouse.com.

https://www.martymousehouse.com
DECEMBER 2020

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

“Three Christmas Rats”. Original painting in watercolors by Drusilla Kehl, The Illustrated Rat. Used with permission of the artist.

https://www.theillustratedrat.com
Principal Investigator
• Mary Shimoyama, PhD

Co-Investigators
• Mindy Dwinell, PhD
• Anne Kwitek, PhD

Project Manager
• Jennifer Smith, MSc

Research Scientists and Curators
• Tom Hayman, PhD
• Matt Hoffman, BSc
• Mary Kaldunski, BSc
• Stan Laulederkind, PhD
• Monika Tutaj, PhD
• Shur-Jen Wang, PhD

Bioinformatics Manager
• Jeff De Pons, BSc

Developers
• Marek Tutaj, MSc
• Jyothi Thota, MSc
• Harika Nalabolu, MSc
• Santoshi Ellanki, MSc

PhD Candidate
• Cagatay Dursun, MSc

Database Administrator
• Stacy Zacher, MSc

The RGD team: Back row, left to right: Matt, Marek, Mindy, Anne, Monika, Jennifer, Shur-Jen, Jeff, Stan. Front row, left to right: Jyothi, Santoshi, Mary S, Cagatay, Mary K. Not pictured: Harika, Stacy, Tom. Photo courtesy of Stacy Zacher.

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

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Cover Collage

Left column, top to bottom
“Dishwasher”, Minka tries to help with the dishes. Photo courtesy of Joanne Bella Hodges, 2013 RGD Rat Calendar.

“Jake in a Popcorn Tub”, white rat purchased from PetSmart on Christmas Eve. Photo courtesy of Dr. Kevin R. Grazier.

Center
Chinese zodiac rat sculpture for the Year of the Rat at the China Lights exhibit, Boerner Botanical Gardens, Hales Corners, WI, USA. Photography by Megan Kaldunski. Photo submitted by Mary Kaldunski, Rat Genome Database, Medical College of Wisconsin, Milwaukee, WI, USA. http://www.chinalights.org

Right column, top to bottom
Patchwork rat. The patchwork phenotype is thought to date back to the “travelling wave” allele, but is known to not be linked to rex. Rat bred by and photo courtesy of Nicole Kroha, Riffraff Rex Rattery, Milwaukee, WI, USA.

Albino Kwl:Wistar rats prepare for the 2020 Olympic games in Tokyo. 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.

“Packer Fan Anubis”. Original artwork created digitally in Photoshop by Drusilla Kehl, The Illustrated Rat. Used with permission of the artist.

https://www.theillustratedrat.com