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

With appreciation, The RGD Team
Four week old albino Kwl: Wistar rat wrestles a dinosaur to the ground. Photography by Mr. Takao Nakagawa, Kiwa Laboratory Animals Co., Ltd., Wakayama, Japan. Photos submitted by Dr. Masayuki Anzai, Institute of Advanced Technology, Kindai University, Higashiosaka City, Osaka, Japan.


January 2017

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Sprague-Dawley (SD) rat obtained from a nonsurgical embryo transfer using a rat NSET device under development at ParaTechs Corporation. Photo courtesy of Ms. Margo Landis and Dr. Barbara Stone, ParaTechs Corp., Lexington, Kentucky, USA.

http://www.paratechs.com/
April 2017

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Four week old albino Kwl:Wistar rat and four week old male black-hooded Kwl:Long Evans rat. Photography by Mr. Takao Nakagawa, Kiwa Laboratory Animals Co., Ltd., Wakayama, Japan. Photos submitted by Dr. Masayuki Anzai, Institute of Advanced Technology, Kindai University, Higashiosaka City, Osaka, Japan. Origami by graduate (Rika Azuma) and undergraduate (Orisugi Takuya, Akari Obashi, Yuki Hamada, Chikara Kogiso, Rina Ogasawara and Akari Washizu) students of the School of Biology-Oriented Science and Technology, Kindai University.

Rat-mouse interspecies chimeras. Green mouse ES cells were injected into rat Crlj:WI embryos (RGD: 2312504). Chimeras developed by and photos courtesy of Dr. Teppei Goto 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/
Four week old pups, and seventeen week old mother with one week old pups. All rats are Slc:Wistar (Slc:W, RGD: 2314928). Photo courtesy of Dr. Yusuke Osaki, Division of Integrative Renal Replacement Therapy, Graduate School of Medicine, Tohoku University, Aobaku, Sendai, Japan.


http://www.tokumen.co.jp/?lang=en
“Joell”, a Russian Blue Dumbo, peeks out from a haunted house. Photo courtesy of Joanne Bella Hodges, Senior Team Member, The Rat Guide.

http://ratguide.com
BNW/Jer rat (inbred generation 54; RGD: 10402390). This rat model is used for nutritional, organ, reproductive and skin melanin studies. Genetic testing at Charles River Laboratories confirmed BNW/Jer to be homozygous for at least 106/107 genome-wide markers spaced at 15-20 cM intervals. Colonies maintained and photos courtesy of Jerome Donohoe, Agricultural Omega Solutions LLC, Milwaukee, WI, USA.

http://www.agriculturalomegasolutions.com/
Clockwise from top left. #1: Chimera pup generated by injection of SS ES cells into LE x DA embryos. #2, 4 and 6: Wild type and founder rats for ACI.FHH-(D14Arb1-D14Rat70)(D1Mit18-D1Rat90)(D3Got102-D3Rat7)/Mcwi-Rab38tm1Mcwi, a Rab38 KO on a triple congenic background. #3 and 7: Chimera pup generated by injection of Fawn Hooded Hypertensive (FHH) ES cells into SD embryos. #5: Chimera pup generated by injection of ACI ES cells into SD embryos. Rats generated by and photos courtesy of Dr. Akiko Takizawa, Human and Molecular Genetics Center, Medical College of Wisconsin, Milwaukee, WI, USA. 
http://www.mcw.edu/Human-and-Molecular-Genetics-Center-HMGC.htm
Wild type and founder rats for ACI.FHH-(D14Arb1-D14Rat70) (D1Mit18-D1Rat90)(D3Got102-D3Rat7)/Mcwi-Rab38tm1Mcwi, a Rab38 KO on a triple congenic background. Rats generated by and photos courtesy of Dr. Akiko Takizawa, Human and Molecular Genetics Center, Medical College of Wisconsin, Milwaukee, WI, USA. http://www.mcw.edu/Human-and-Molecular-Genetics-Center-HMGC.htm

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Principal Investigator: Mary Shimoyama, PhD
Co-Investigator: Mindy Dwinell, PhD

Research Scientists and Curators:
Shirng-Wern Tsaih, PhD
Stan Laulerkind, PhD
Tom Hayman, PhD
Victoria Petri, PhD

Bioinformatics Manager: Jeff De Pons

Developers:
Marek Tutaj, MS
Omid Ghiasvand, MS
Jyothi Thota, MS

PhD Candidate: Yiqing Zhao, MS

Database Administrator: Stacy Zacher, MS

Calendar Printing: Heritage Printing, Brookfield, WI clickheritage.com

Additional Design: Phil Friso, Cultivate Communications, Brookfield, WI cultivate-communications.com
**Cover Photos**

Row 1, left to right:

CrIj:WI rats (RGD: 2312504). Photography by Ms. Miki Nakajima. Photo courtesy of Dr. Toshihiro Aoto, Institute of Immunology Co., Ltd., Utsunomiya City, Japan.

Four week old Slc:Wistar (Slc:W, RGD: 2314928) pup. Photo courtesy of Dr. Yusuke Osaki, Division of Integrative Renal Replacement Therapy, Graduate School of Medicine, Tohoku University, Aobaku, Sendai, Japan.

Rat-mouse interspecies chimera. Green mouse ES cells were injected into rat CrIj:WI embryos (RGD: 2312504). Chimera developed by and photo courtesy of Dr. Teppei Goto and Dr. Masumi Hirabayashi, Section of Mammalian Transgenesis, Center for Genetic Analysis of Behavior, National Institute for Physiological Sciences, Okazaki Aichi, Japan.

Row 2, left to right:

“Justin” and “Jeremy”, adult Russian Silver and Russian Blue Dumbo siblings. Photo courtesy of Joanne Bella Hodges, Senior Team Member, The Rat Guide.

Four week old male Kw1:Wistar rat. Photography by Mr. Takao Nakagawa, Kiwa Laboratory Animals Co., Ltd., Wakayama, Japan. Photo submitted by Dr. Masayuki Anzai of the Institute of Advanced Technology, Kindai University, Higashiosaka City, Osaka, Japan. Origami by students of the School of Biology-Oriented Science and Technology, Kindai University.

Row 3, left to right:

Chimera pup generated by injection of ACI ES cells into SD embryos. Chimera developed by and photo courtesy of Dr. Akiko Takizawa, Human and Molecular Genetics Center, Medical College of Wisconsin, Milwaukee, WI, USA.

“Ruby”. Original painting in gouache (opaque watercolor) by Drusilla Kehl, The Illustrated Rat. Used with permission of the artist.

“Jace”, an adult Russian Blue Burmese Dumbo, and “Bardo”, a six week old Sable Burmese standard ear rat. Photo courtesy of Joanne Bella Hodges, Senior Team Member, The Rat Guide.

Row 4, left to right:

“Jinga”, a Russian Blue Dumbo rat. Photo courtesy of Joanne Bella Hodges, Senior Team Member, The Rat Guide.

“Vitruvian Rat”. Original drawing by Dr. Stan Laulederkind, Senior Curator, Rat Genome Database, Medical College of Wisconsin, Milwaukee, WI, USA. Used with permission of the artist.

Three week old Russian Blue Dumbo. Photo courtesy of Joanne Bella Hodges, Senior Team Member, The Rat Guide.

http://rgd.mcw.edu