

## Curriculum Vitae

### OLIVER A. RYDER, Ph.D.

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#### PERSONAL DATA

Place of Birth: Alexandria, Virginia  
Business Address: San Diego Zoo Institute for Conservation Research  
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#### EDUCATIONAL BACKGROUND

1968-75 University of California, San Diego: Ph.D. in Biology  
1964-68 University of California, Riverside: B.A. in Biology with High Honors

#### CURRENT PROFESSION

**Director of Genetics, Kleberg Chair;** San Diego Zoo's Institute for Conservation Research; San Diego, CA  
**Adjunct Professor of Biology;** Department of Biology, University of California, San Diego; La Jolla, CA  
**Adjunct Professor of Biology;** Department of Biology, San Diego State University  
**Visiting Scholar;** Center for Conservation Biology, University of California, Riverside; Riverside, CA

#### PROFESSIONAL BACKGROUND

2009- **Adjunct Professor of Biology;** Department of Biology, San Diego State University  
2007- **Visiting Scholar;** Center for Conservation Biology, University of California, Riverside; Riverside, CA  
1995- **Adjunct Professor of Biology;** Department of Biology, University of California, San Diego; La Jolla, CA  
1986- **Director of Genetics, Kleberg Chair;** San Diego Zoo's Institute for Conservation Research; San Diego, CA  
1988-95 **Adjunct Associate Professor of Biology;** Department of Biology, University of California, San Diego; La Jolla, CA  
1979-87 **Research Associate;** Department of Biology, University of California, San Diego; La Jolla, CA  
1979-85 **Geneticist;** Research Department, Zoological Society of San Diego; San Diego, CA  
1975-79 **Research Fellow;** Research Department, Zoological Society of San Diego; San Diego, CA  
1977-79 **Postdoctoral Fellow;** Department of Pathology, University of California, San Diego; La Jolla, CA  
1975-77 **Postdoctoral Fellow;** Department of Reproductive Medicine, University of California, San Diego; La Jolla, CA

#### HONORS

**Wilhemina Key Presidential Lectureship,** American Genetic Association, 2010  
**Fellow,** American Association for the Advancement of Science, 2006  
**Duane E. Ullrey Achievement Award,** for Exceptional Achievements in the Science of Wild Animal Health and Service to AAZV,  
American Association of Zoo Veterinarians, 2005  
**Scientific Fellow,** Wildlife Conservation Society, 1999-2004  
**Distinguished Alumnus Award,** University of California, Riverside, 2003  
**Scientific Fellow,** The New York Zoological Society, 1990, 1998  
**Fellow,** San Diego Society of Natural History, 1994  
**Who's Who** in the West, **Who's Who** in the U.S., **Who's Who** in the World, 1992, 1994  
**91 San Diegans to Watch in '91,** San Diego Magazine, 1990  
**National Research Service Award,** National Institutes of Health, 1976-78  
**Medical Research Fellowship,** Bank of America/Giannini Foundation, 1975-76  
**Traineeship in Genetics,** United States Public Health Service, 1968-75  
**Graduation with High Honors,** University of California, Riverside, 1968

#### PROFESSIONAL SOCIETY MEMBERSHIPS

American Association of Zoological Parks and Aquariums  
American Genetic Association  
American Society of Human Genetics  
American Society of Mammalogists

GRANTS AND AWARDS

- \* Institute of Museum and Library Sciences: Infectious Disease Control and Bioresource Banking for the Amphibian Extinction Crisis; 2008-present
- \* NSF Research Grant (subaward, University of California, Riverside): Assembling the Tree of Life: Collaborative Research: Resolving Mammalian Phylogeny with Genomic and Morphological Approaches; 2006-present
- \* James S. Copley Foundation Grant: Copley Fellow for Conservation Science in gorilla genetics; 2005-present
- \* NIH Genetic Architecture, Biological Variation, and Complex Phenotypes; Comparative Grant (subaward, University of Southern California): Comparative Genomics of Peroxisomal Lipid Metabolism; 2005-present
- \* Seaver Institute: Genome Studies for the Conservation of the California Condor; 2004-present
- \* NSF Major Research Instrumentation Grant: Acquisition of Major Research Instrumentation for Expanding Genetic Databases in Comparative Primatology; 2005-2008
- \* John and Beverly Stauffer Foundation: Genetic studies of wild mountain and lowland gorillas, Przewalski's horses and California condors; 2004-05
- \* NSF Cross-Directorate Grant: Integrated Primate Biomaterials and Information Resource; 2001-05
- \* Morris Animal Foundation: Molecular Cytogenetic Approaches to the Conservation of Endangered Rhinoceros Species; 2002-03
- \* USFWS, Division of International Conservation, Great Ape Conservation Fund: Population Assessment and Monitoring — Incorporating Genetic Technologies to Support Viable Populations of Mountain Gorilla and Chimpanzee; 2001-02
- \* Morris Animal Foundation: Class II MHC Genotyping of Mountain and Captive Western Lowland Gorillas; 2000-02
- \* Alice C. Tyler Perpetual Trust: Arroyo Toad Conservation Program; 1999; renewed 2000
- \* Zoological Society of San Diego: Conservation of Argali in Mongolia; 1999-2000
- \* Zoological Society of San Diego: Paraguayan Biodiversity Conservation Program (Genetics); 1999-2000
- \* Alice C. Tyler Perpetual Trust: Giant Panda Conservation Program; 1996; renewed 1997, 1998, 1999, 2000
- \* John and Beverly Stauffer Foundation: Conservation Genetics of East African black rhinoceros; 1996, renewed 1997, 1998, 1999, 2000
- \* Zoological Society of San Diego: Saiga Genetic Studies; 1998-99
- \* Sloan Foundation/NSF: Y-chromosome variation in great apes; 1997-99
- \* Zoological Society of San Diego: Reintroduction of Pronghorn Antelope into Southern California — Genetic Analysis of Pronghorn Populations for Selecting Stock; 1996-99
- \* McCarthy Family Foundation: Development of Molecular Genetic Markers for Population Monitoring in the Endangered Arroyo Toad (*Bufo microscaphus californicus*); 1998
- \* Plum Foundation: Conservation Genetics of East African Black Rhinoceros; 1998
- \* J.C. Downing Foundation: Kenyan Technology Transfer; 1996; renewed 1997, 1998
- \* John and Beverly Stauffer Foundation: Global Management of Przewalski's Horse — Conservation of the gene pool and reintroduction to species' historic range; 1992-95
- \* Morris Animal Foundation: Non-Invasive Investigation of Genetic Variation in Mountain Gorillas; 1990-92
- \* J.N. Pew, Jr. Memorial Trust: The Transfer of Technologies for Management of Genetic Resources for Conservation; 1989-92
- \* John and Beverly Stauffer Trust: The Transfer of Technologies for Management of Genetic Resources for Conservation; 1989-92
- \* Marine Mammal Commission: Mitochondrial DNA and DNA Fingerprinting Studies of Florida Manatees; 1988-89
- \* California Department of Fish and Game: California Condor Parentage Inference Employing Hypervariable DNA Sequence Analysis; 1987-89
- \* Institute of Museum Services, Conservation Project Grant: Conservation Genetics Training Program; 1987-88
- \* NIH Research Grant: Comparative Molecular Cytogenetics; 1976-79; renewed 1979-82, 1982-85, 1985-88

CURRENT PROFESSIONAL SERVICE

**Chair**, Amphibian Cryobanking Advisory Committee, a component of the Amphibian Ark, 2008-  
**Board of Directors**, San Dieguito River Valley Conservancy, 2007-  
**Associate Editor**, Zoological Research, 2006-  
**Board of Advisors**, University of California, Riverside, College of Natural & Agricultural Sciences, 2006-  
**Research Sub-Committee**, Association of Zoos and Aquariums Taxon Advisory Group, 2006-  
**Executive Vice President**, American Genetic Association, 2004-2007; reappointed; 2008-2011  
**Genetics Co-Advisor**, Rhino Research Council, 2004-  
**Steering Committee**, Center for Conservation Biology, 2004-  
**Advisor**, Mountain Gorilla Conservation Fund, 2001-  
**Bonobo Species Survival Plan Group**, American Zoo and Aquarium Association, 2000-  
**Board of Editors**, Conservation Genetics, 1999-  
**Founding member**, Land Conservation Citizen Group, Friends of Carmel Mountain Preserve, 1999-  
**Peninsular Bighorn Sheep Recovery Team**, United States Fish & Wildlife Service, 1998-  
**Member**, Center for Academic Research and Training in Anthropology, University of California, San Diego 1997-  
**Scientific Advisor**, Jersey Wildlife Preservation Trust, 1996-  
**Member**, Comité Internacional para La Recuperación de la Vaquita (International Committee for the Recovery of the Vaquita), 1995-  
**Systematics Advisory Group**, American Zoo and Aquarium Association, 1994-  
**Small Population Management Advisory Group**, American Zoo and Aquarium Association, 1990-  
**Equid Specialist Group**, Species Survival Commission of International Union for the Conservation of Nature and Natural Resources, 1989-  
**Conservation Breeding Specialist Group**, Species Survival Commission of International Union for the Conservation of Nature and Natural Resources, 1983-

PREVIOUS PROFESSIONAL SERVICE

**External Advisory Committee**, Duke University Primate Center, 2005-2008  
**Board of Editors**, Zoological Research, 2002-05  
**President**, American Genetic Association, 2001  
**Re-introduction Specialist Group**, Species Survival Commission of International Union for the Conservation of Nature and Natural Resources, 1989-2001  
**Tapir Specialist Group**, Species Survival Commission, International Union for the Conservation of Nature and Natural Resources, 1983-2001  
**Wild Horse and Burro Management Program**, Bureau of Land Management, 1999  
**Community Advisory Group**, City of San Diego, California; Neighborhood 8A Precise Plan, 1997-99  
**Director's Search Committee**, Center for Conservation Biology; University of California, Riverside, 1997-99  
**Steering Committee**, Center for Conservation Biology; University of California, Riverside, 1997-99  
**Associate Editor**, Journal of Heredity, 1990-2008  
**Council Member**, American Genetics Association, 1990-93, 1997-99  
**Ad Hoc Review Committee**, Gene Resources Conservation Program; University of California, Riverside, 1997-98  
**Board of Editors**, Conservation Biology, 1993-98  
**Conservation of Terrestrial Mammals Committee**, American Society of Mammalogists, 1982-95  
**Species Coordinator**, Przewalski's Horse Species Survival Plan, 1979-94  
**Advisory Panel**, National Academy of Sciences/WQED Pittsburgh, "Infinite Voyage" television series, 1990-91  
**Editorial Board**, Genetica, 1980-90  
**Chair**, K-12 Curriculum Committee, Society for Conservation Biology, 1988-90  
**Vice-Chair**, Wildlife Conservation and Management Committee, American Association of Zoological Parks and Aquariums, 1983-89  
**International Studbook Keeper** for the Malayan Tapir, *Tapirus indicus*, 1984-89  
**Species Survival Program Committee**, American Association of Zoological Parks and Aquariums, 1981-89  
**Advisory Panel**, United States Congress' Office of Technology Assessment, Report on Technologies to Maintain Biological Diversity, 1987

PROFESSIONAL CONSULTATIONS

County of Orange, California, USA; Office of the District Attorney  
 County of San Diego, California, USA; Office of the District Attorney  
 Kingdom of Saudi Arabia, National Commission for Wildlife and Conservation Development  
 National Geographic Society  
 San Diego Unified School District; San Diego, California, USA  
 Sultanate of Oman, Office of the Advisor for Conservation of the Environment  
 United Nations Food and Agriculture Organization  
 United States Congress, Office of Technology Assessment  
 Zoobooks, Inc.

PUBLICATIONS

- 308 Liu J, Wang X, Cho S, Lim BK, Irwin DM, Ryder OA, Zhang Y, Yu L. Evolutionary and functional novelty of pancreatic ribonuclease: a study of Musteloidea (order Carnivora). *Sci Rep.* 2014;4:5070. Research Article
- 307 Steiner CC, Charter SJ, Houck ML, Ryder OA. Molecular phylogeny and chromosomal evolution of Alcelaphini (Antilopinae). *J Hered.* 2014 Jun;105(3):324–33. Research Article
- 306 i5K Consortium, Evans JD, Brown SJ, Hackett KJ, Robinson G, Richards S, Lawson D, Elsik C, Coddington J, Edwards O, Emrich S, Gabaldon T, Goldsmith M, Hanes G, Misof B, Muñoz-Torres M, Niehuis O, Papanicolaou A, Pfrender M, Poelchau M, Purcell-Miramontes M, Robertson HM, Ryder O, Tagu D, Torres T, Zdobnov E, Zhang G, Zhou X. The i5K Initiative: advancing arthropod genomics for knowledge, human health, agriculture, and the environment. *J Hered.* 2013 Oct;104(5):595–600. Research Article
- 305 Prado-Martinez J, Sudmant PH, Kidd JM, Li H, Kelley JL, Lorente-Galdos B, Veeramah KR, Woerner AE, O'Connor TD, Santpere G, Cagan A, Theunert C, Casals F, Laayouni H, Munch K, Hobolth A, Halager AE, Malign M, Hernandez-Rodriguez J, Hernando-Herraez I, Prüfer K, Pybus M, Johnstone L, Lachmann M, Alkan C, Twigg D, Petit N, Baker C, Hormozdiari F, Fernandez-Callejo M, Dabad M, Wilson ML, Stevison L, Camprubí C, Carvalho T, Ruiz-Herrera A, Vives L, Mele M, Abello T, Kondova I, Bontrop RE, Pusey A, Lankester F, Kiyang JA, Bergl RA, Lonsdorf E, Myers S, Ventura M, Gagneux P, Comas D, Siegmund H, Blanc J, Agueda-Calpena L, Gut M, Fulton L, Tishkoff SA, Mullikin JC, Wilson RK, Gut IG, Gonder MK, Ryder OA, Hahn BH, Navarro A, Akey JM, Bertranpetit J, Reich D, Mailund T, Schierup MH, Hvilsom C, Andrés AM, Wall JD, Bustamante CD, Hammer MF, Eichler EE, Marques-Bonet T. Great ape genetic diversity and population history. *Nature [Internet].* 2013 Jul 3 [cited 2013 Jul 19] Research Article
- 304 Orlando L, Ginolhac A, Zhang G, Froese D, Albrechtsen A, Stiller M, Schubert, M, Cappellini E, Petersen B, Moltke I, Johnson PL, Fumagalli M, Vilstrup JT, Raghavan M, Korneliusen T, Malaspina AS, Vogt J, Szklarczyk D, Kelstrup CD, Vinther J, Dolocan A, Stenderup J, Velazquez AM, Cahill J, Rasmussen M, Wang X, Min J, Zazula GD, Seguin-Orlando A, Mortensen C, Magnussen K, Thompson JF, Weinstock J, Gregersen K, Røed KH, Eisenmann V, Rubin CJ, Miller DC, Antczak DF, Bertelsen MF, Brunak S, Al-Rasheid KA, Ryder O, Andersson L, Mundy J, Krogh A, Gilbert MT, Kjær K, Sicheritz-Ponten T, Jensen LJ, Olsen JV, Hofreiter M, Nielsen R, Shapiro B, Wang J, Willerslev E. Recalibrating Equus evolution using the genome sequence of an early Middle Pleistocene horse. *Nature* 2013 Jul;499(7456):74-8. Research Article
- 303 Steiner CC, Ryder OA. Characterization of Prdm9 in equids and sterility in mules. *PLoS ONE* 2013 Apr;8(4):e61746. Research Article
- 302 Moser AB, Hey J, Dranchak PK, Karaman MW, Zhao J, Cox LA, Ryder OA, Hacia JG. Diverse captive non-human primates with phytanic acid-deficient diets rich in plant products have substantial phytanic acid levels in their red blood cells. *Lipids in Health and Disease.* 2013;12(1):10.
- 301 Steiner CC, Putnam AS, Hoeck PEA, Ryder OA. Conservation Genomics of Threatened Animal Species. *Annual Review of Animal Biosciences.* 2013 Jan;1(1):261–81. Annual Review Publication
- 300 Luan P-T, Ryder OA, Davis H, Zhang Y-P, Yu L. Incorporating indels as phylogenetic characters: Impact for interfamilial relationships within Arctoidea (Mammalia: Carnivora). *Mol. Phylogenet. Evol.* 2012 Nov Research Article
- 299 Springer MS, Meredith RW, Gatesy J, Emerling CA, Park J, Rabosky DL, Stadler T, Steiner C, Ryder OA, Janečka JE, Fisher CA, Murphy WJ. Macroevolutionary dynamics and historical biogeography of primate diversification inferred from a species supermatrix. *PLoS ONE* 2012;7(11):e49521. Research Article
- 298 Steiner CC, Mitelberg A, Tursi R, Ryder OA. Molecular phylogeny of extant equids and effects of ancestral polymorphism in resolving species-level phylogenies. *Mol. Phylogenet. Evol.* 2012 Nov;65(2):573–581. Research Article
- 297 Dennis P, Ellis S, Mellen J, Lee P, Olea-Popelka F, Petric A, Ryder O. IOD in rhinos--epidemiology group report: report from the Epidemiology Working Group of the International Workshop on Iron Overload Disorder in Browsing Rhinoceros (February 2011). *J. Zoo Wildl. Med.* 2012 Sep;43(3 Suppl):S114–116. Research Article

- 296 Bernardi G, Wiley EO, Mansour H, Miller MR, Orti G, Haussler D, O'Brien SJ, Ryder OA, Venkatesh B. The fishes of Genome 10K. *Mar Genomics* 2012 Sep;7:3–6. Research Article
- 295 Wong PBY, Wiley EO, Johnson WE, Ryder OA, O'Brien SJ, Haussler D, Koepfli K-P, Houck ML, Perelman P, Mastromonaco G, Bentley AC, Venkatesh B, Zhang Y-P, Murphy RW, G10KCOS. Tissue sampling methods and standards for vertebrate genomics. *GigaScience* 2012;1:8 Research Article
- 294 Frankham R, Ballou JD, Dudash MR, Eldridge MDB, Fenster CB, Lacy RC, Mendelson JR, Porton IJ, Ralls K, Ryder OA. Implications of different species concepts for conserving biodiversity. *Biological Conservation* 2012 Sep;153:25–31. Research Article
- 293 Ryder, OA. The Frozen Zoo. *GeneWatch* 2012 Apr-May;25(3):19-20. Perspective
- 292 Walker JA, Konkel MK, Ullmer B, Monceaux CP, Ryder OA, Hubley R, Smit AF, Batzer MA. Orangutan Alu quiescence reveals possible source element: support for ancient backseat drivers. *Mobile DNA* 2012;3(1):8. Research Article
- 291 Scally A, Dutheil JY, Hillier LW, Jordan GE, Goodhead I, Herrero J, Hobolth A, Lappalainen T, Mailund T, Marques-Bonet T, McCarthy S, Montgomery SH, Schwalie PC, Tang YA, Ward MC, Xue Y, Yngvadottir B, Alkan C, Andersen LN, Ayub Q, Ball EV, Beal K, Bradley BJ, Chen Y, Clee CM, Fitzgerald S, Graves TA, Gu Y, Heath P, Heger A, Karakoc E, Kolb-Kokocinski A, Laird GK, Lunter G, Meader S, Mort M, Mullikin JC, Munch K, O'Connor TD, Phillips AD, Prado-Martinez J, Rogers AS, Sajjadian S, Schmidt D, Shaw K, Simpson JT, Stenson PD, Turner DJ, Vigilant L, Vilella AJ, Whitener W, Zhu B, Cooper DN, de Jong P, Dermitzakis ET, Eichler EE, Flicek P, Goldman N, Mundy NI, Ning Z, Odom DT, Ponting CP, Quail MA, Ryder OA, Searle SM, Warren WC, Wilson RK, Schierup MH, Rogers J, Tyler-Smith C, Durbin R. Insights into hominid evolution from the gorilla genome sequence. *Nature* 2012 Mar;483(7388):169–175. Research Article
- 290 McCue ME, Bannasch DL, Petersen JL, Gurr J, Bailey E, Binns MM, Distl O, Guérin G, Hasegawa T, Hill EW, Leeb T, Lindgren G, Penedo MCT, Røed KH, Ryder OA, Swinburne JE, Tozaki T, Valberg SJ, Vaudin M, Lindblad-Toh K, Wade CM, Mickelson JR. A High Density SNP Array for the Domestic Horse and Extant Perissodactyla: Utility for Association Mapping, Genetic Diversity, and Phylogeny Studies. *PLoS Genetics* 2012 Jan;8(1):e1002451. Research Article
- 289 Steiner CC, Ryder OA. Molecular phylogeny and evolution of the Perissodactyla. *Zoological Journal of the Linnean Society* 2011 Dec;163(4):1289-1303. Research Article
- 288 Steiner CC, Houck ML, Ryder OA. Species identification and chromosome variation of captive two-toed sloths. *Zoo Biology* 2011 Nov;30(6):623-635. Research Article
- 287 Meredith RW, Janecka JE, Gatesy J, Ryder OA, Fisher CA, Teeling EC, Goodbla A, Eizirik E, Simao TLL, Stadler T, Rabosky DL, Honeycutt RL, Flynn JJ, Ingram CM, Steiner C, Williams TL, Robinson TJ, Burk-Herrick A, Westerman M, Ayoub NA, Springer MS, Murphy WJ. Impacts of the Cretaceous Terrestrial Revolution and KPg Extinction on Mammal Diversification. *Science* 2011 Sep;334(6055):521–524. Research Article
- 286 Ben-Nun IF, Montague SC, Houck ML, Tran HT, Garitaonandia I, Leonardo TR, Wang Y-C, Charter SJ, Laurent LC, Ryder OA, Loring JF. Induced pluripotent stem cells from highly endangered species. *Nature Methods* 2011 Sep;8(10):829–831. Research Article
- 285 Gazave E, Darré F, Morcillo-Suarez C, Petit-Marty N, Carreño A, Marigorta UM, Ryder OA, Blancher A, Rocchi M, Bosch E, Baker C, Marqués-Bonet T, Eichler EE, Navarro A. Copy number variation analysis in the great apes reveals species-specific patterns of structural variation. *Genome Res.* 2011 Oct;21(10):1626–1639. Research Article
- 284 Goto H, Ryder OA, Fisher AR, Schultz B, Pond SK, Nekrutenko A, Makova KD. A Massively Parallel Sequencing Approach Uncovers Ancient Origins and High Genetic Variability of Endangered Przewalski's Horses. *Genome Biology and Evolution* 2011 Jul;3(0):1096–1106. Research Article
- 283 Moser AB, Steinberg SJ, Watkins PA, Moser HW, Ramaswamy K, Siegmund KD, Lee DR, Ely JJ, Ryder OA, Hacia JG. Human and great ape red blood cells differ in plasmalogen levels and composition. *Lipids Health Dis* 2011;10:101. Research Article

- 282 Gomes NMV, Ryder OA, Houck ML, Charter SJ, Walker W, Forsyth NR, Austad SN, Venditti C, Pagel M, Shay JW, Wright WE. Comparative biology of mammalian telomeres: hypotheses on ancestral states and the roles of telomeres in longevity determination. *Aging Cell* 2011 Oct;10(5):761–768. Research Article
- 281 Kulemzina AI, Yang F, Trifonov VA, Ryder OA, Ferguson-Smith MA, Graphodatsky AS. Chromosome painting in Tragulidae facilitates the reconstruction of Ruminantia ancestral karyotype. *Chromosome Res* 2011 May;19(4):531-539. Research Article
- 280 Yu L, Peng D, Liu J, Luan P, Liang L, Lee H, Lee M, Ryder OA, Zhang Y. On the phylogeny of Mustelidae subfamilies: analysis of seventeen nuclear non-coding loci and mitochondrial complete genomes. *BMC Evol Biol* 2011;11(1):92. Research Article
- 279 Yu L, Luan P-T, Jin W, Ryder OA, Chemnick LG, Davis HA, Zhang Y-P. Phylogenetic Utility of Nuclear Introns in Interfamilial Relationships of Caniformia (Order Carnivora). *Systematic Biology* 2011 Jan;60(2):175-187. Research Article
- 278 Locke DP, Hillier LW, Warren WC, Worley KC, Nazareth LV, Muzny DM, Yang S-P, Wang Z, Chinwalla AT, Minx P, Mitreva M, Cook L, Delehaunty KD, Fronick C, Schmidt H, Fulton LA, Fulton RS, Nelson JO, Magrini V, Pohl C, Graves TA, Markovic C, Cree A, Dinh HH, Hume J, Kovar CL, Fowler GR, Lunter G, Meader S, Heger A, Ponting CP, Marques-Bonet T, Alkan C, Chen L, Cheng Z, Kidd JM, Eichler EE, White S, Searle S, Vilella AJ, Chen Y, Flicek P, Ma J, Raney B, Suh B, Burhans R, Herrero J, Haussler D, Faria R, Fernando O, Darré F, Farré D, Gazave E, Oliva M, Navarro A, Roberto R, Capozzi O, Archidiacono N, Valle GD, Purgato S, Rocchi M, Konkel MK, Walker JA, Ullmer B, Batzer MA, Smit AFA, Hubley R, Casola C, Schridder DR, Hahn MW, Quesada V, Puente XS, Ordoñez GR, López-Otín C, Vinar T, Brejova B, Ratan A, Harris RS, Miller W, Kosiol C, Lawson HA, Taliwal V, Martins AL, Siepel A, RoyChoudhury A, Ma X, Degenhardt J, Bustamante CD, Gutenkunst RN, Mailund T, Dutheil JY, Hobolth A, Schierup MH, Ryder OA, Yoshinaga Y, de Jong PJ, Weinstock GM, Rogers J, Mardis ER, Gibbs RA, Wilson RK. Comparative and demographic analysis of orang-utan genomes. *Nature* 2011 Jan;469(7331):529-533. Research Article
- 277 Mitchell AA, Lau J, Chemnick LG, Thompson EA, Alberts AC, Ryder OA, Gerber GP. Using microsatellite diversity in wild Anegada iguanas (*Cyclura pinguis*) to establish relatedness in a captive breeding group of this critically endangered species. *Conserv Genet* 2011 Feb;12(3):771-781. Research Article
- 276 Watkins PA, Moser AB, Toomer CB, Steinberg SJ, Moser HW, Karaman MW, Ramaswamy K, Siegmund KD, Lee DR, Ely JJ, Ryder OA, Hacia JG. Identification of differences in human and great ape phytanic acid metabolism that could influence gene expression profiles and physiological functions. *BMC Physiol* 2010;10:19. Research Article
- 275 Alkan C, Cardone MF, Catacchio CR, Antonacci F, O'Brien SJ, Ryder OA, Purgato S, Zoli M, Della Valle G, Eichler EE, Ventura M. Genome-wide characterization of centromeric satellites from multiple mammalian genomes. *Genome Research* 2010 Nov;21(1):137-145. Research Article
- 274 Ellstrand NC, Biggs D, Kaus A, Lubinsky P, McDade LA, Preston K, Prince LM, Regan HM, Roriver V, Ryder OA, Schierenbeck KA. Got Hybridization? A Multidisciplinary Approach for Informing Science Policy. *BioScience* 2010 May;60(5):384-388. Research Article
- 273 Puppione DL, Ryan CM, Bassilian S, Souda P, Xiao X, Ryder OA, Whitelegge JP. Detection of two distinct forms of apoC-I in great apes. *Comp. Biochem. Physiol. Part D Genomics Proteomics* 2010 Mar;5(1):73-79. Research Article
- 272 Puppione DL, Donna LD, Laganowsky AD, Bassilian S, Souda P, Ryder OA, Whitelegge JP. Mass spectral analyses of the two major apolipoproteins of great ape high density lipoproteins. *Comp. Biochem. Physiol. Part D Genomics Proteomics* 2009 Dec;4(4):305-309. Research Article
- 271 Ryder, OA. The Case of the Kangaroo Rat's Chromosomes. *Conservation Update*;2009. Popular Article
- 270 Ryder OA, Steiner CC. How much hybridization and in what direction? *Animal Conservation* 2009 Dec;12(6):516-517. Research Article

- 269 Li R, Fan W, Tian G, Zhu H, He L, Cai J, Huang Q, Cai Q, Li B, Bai Y, Zhang Z, Zhang Y, Wang W, Li J, Wei F, Li H, Jian M, Li J, Zhang Z, Nielsen R, Li D, Gu W, Yang Z, Xuan Z, Ryder OA, Leung FC-C, Zhou Y, Cao J, Sun X, Fu Y, Fang X, Guo X, Wang B, Hou R, Shen F, Mu B, Ni P, Lin R, Qian W, Wang G, Yu C, Nie W, Wang J, Wu Z, Liang H, Min J, Wu Q, Cheng S, Ruan J, Wang M, Shi Z, Wen M, Liu B, Ren X, Zheng H, Dong D, Cook K, Shan G, Zhang H, Kosiol C, Xie X, Lu Z, Zheng H, Li Y, Steiner CC, Lam TT-Y, Lin S, Zhang Q, Li G, Tian J, Gong T, Liu H, Zhang D, Fang L, Ye C, Zhang J, Hu W, Xu A, Ren Y, Zhang G, Bruford MW, Li Q, Ma L, Guo Y, An N, Hu Y, Zheng Y, Shi Y, Li Z, Liu Q, Chen Y, Zhao J, Qu N, Zhao S, Tian F, Wang X, Wang H, Xu L, Liu X, Vinar T, Wang Y, Lam T-W, Yiu S-M, Liu S, Zhang H, Li D, Huang Y, Wang X, Yang G, Jiang Z, Wang J, Qin N, Li L, Li J, Bolund L, Kristiansen K, Wong GK-S, Olson M, Zhang X, Li S, Yang H, Wang J, Wang J. The sequence and de novo assembly of the giant panda genome. *Nature* 2009 Dec;463(7279):311-317. Research Article
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