

CURRICULUM VITAE - DARYL CODRON

Florisbad Quaternary Research Department, PO Box 266, Bloemfontein, 9300, South Africa

Date of birth: 18/04/1978; **Nationalities:** South Africa, Italy; **Status:** Married, two children

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National Research Foundation Researcher Rating: C1

Researcher profile: <http://www.researcherid.com/rid/B-8867-2008>

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EDUCATION

- 2004 – 2006 **PhD**, *The ecological and evolutionary significance of browsing and grazing in savanna ungulates*, University of Cape Town, South Africa
- 2002 – 2003 **MSc**, Quaternary Science, University of Cape Town, South Africa
- 2001 **BSc Honours**, CUM LAUDE, Biodiversity and Conservation, University of Johannesburg, South Africa (previously the Rand Afrikaans University)
- 1996 – 1998 **BSc**, Biological Sciences (majors Zoology and Botany), University of Johannesburg, South Africa
- 1995 **Matric**, Sandringham High School, Johannesburg, South Africa

ADDITIONAL QUALIFICATIONS

- 2017 Laboratory animal science Level 1, FELASA category B, University of Zürich, Switzerland
- 2010 Beginners German, University of Zürich and Eidgenössische Technische Hochschule, Zürich, Switzerland
- 2003 Theory and practice of stable light isotope spectrometry, University of Cape Town, South Africa

PROFESSIONAL ACTIVITIES

- 2013 – 2019 **Specialist Museum Scientist**, Florisbad Quaternary Research Department, National Museum, Bloemfontein, South Africa
- 2011 – 2013 **Deutsche Forschungsgemeinschaft Postdoctoral Research Fellow**, Clinic for Zoo Animals, Exotic Pets and Wildlife, University of Zürich, Switzerland
- 2009 – 2011 **Marie Curie Research Fellow**, Clinic for Zoo Animals, Exotic Pets and Wildlife, University of Zürich, Switzerland
- 2007 – 2009 **Lecturer in Animal Ecology**, School of Biological and Conservation Sciences, University of KwaZulu-Natal, South Africa
- 2006 – 2007 **Postdoctoral Research Fellow**, Florisbad Quaternary Research Department, National Museum, Bloemfontein, South Africa

AFFILIATIONS

- 2014 – present **Honorary Research Associate**, Centre for Environmental Management, University of the Free State, South Africa
- 2011 – 2013 **Assistant Professor Adjunct**, Department of Anthropology, University of Colorado at Boulder, USA
- 2011 – 2014 **Honorary Research Fellow**, School of Life Sciences, University of KwaZulu-Natal, South Africa

TEACHING EXPERIENCE

- 2018 – present Methods in Palaeoecology (Honours), University of the Free State, South Africa
- 2012 – 2016 Theory and Practice of Stable Light Isotope Spectrometry (annual postgraduate course), University of Cape Town, South Africa
- 2007 – 2009 Population Ecology (Level 2); Community Ecology (Level 3); Biological Tools and Skills (written and oral communication, and statistics for biologists; Level 2); Experimental Ecology (Honours); Biological Techniques (stable isotope methods), University of KwaZulu-Natal, South Africa

SUPERVISION

- 2016 – present **Sharon Holt**, PhD, University of the Free State, Bloemfontein, South Africa
2016 – present **Sinalo Malindi**, MSc, University of the Free State, Bloemfontein, South Africa
2016 – present **Nyebe Mohale**, MSc, University of the Free State, Bloemfontein, South Africa
2016 – 2019 **Jacqueline Codron**, postdoctoral, National Museum, Bloemfontein, South Africa
2013 – 2017 **Ruwimbo Mutirwara**, MTech, Cape Peninsula University of Technology, South Africa
2009 **John Hull**, BSc Honours, University of KwaZulu-Natal, South Africa

RESEARCH EXPERIENCE

- 2016 – present **PI**, Comparative stable isotope ecology of large-bodied mammalian carnivores and herbivores
2013 – present **PI**, Do biotic interactions lead to an ideal-free distribution of trophic states within living and fossil mammal populations?
2012 – present **Co-PI**, Stable light isotope ecology of large mammal foodwebs in West African savannas
2016 – 2019 **Co-PI**, Effects of size-selective predation on population dynamics in modern and fossil ecosystems
2006 – 2017 **Co-PI**, Stable light isotope and strontium isotope ecology of mammal foodwebs in the Sterkfontein Valley, South Africa: micromammals, large mammals, and fossil mammals including hominins
2012 – 2014 **Co-PI**, Life history, body size, and ecology of vertebrates across the Permian-Triassic extinction event
2011 – 2013 **Postdoctoral**, Predator-prey size relationships and implications for the evolution of gigantism
2009 – 2011 **Postdoctoral**, Isotopic fractionation in mammalian herbivores: effects of diet, diet quality, and intake
2007 – 2011 **PI**, Does C₄ grass-feeding limit the diversity of intermediate-feeding ruminants in Africa?
2006 – 2007 **Postdoctoral**, Quaternary landscapes and biological evolution in the South African interior
2005 – 2012 **Co-PI**, Multi-decadal stable isotope series from African elephant tusks
2004 – 2006 **Doctoral**, The ecological and evolutionary significance of browsing and grazing in savanna ungulates
2002 – 2003 **Masters**, Dietary ecology of chacma baboons (*Papio ursinus*) and Pleistocene cercopithecoidea in savanna environments of South Africa
2002 **Honours**, The African fish leech *Batrachobdelloides tricarinata* (Blanchard, 1897) (Hirudinea: Glossiphoniidae) as a vector of *Trypanosoma* sp. (Sarcomastigophora: Kinetoplastida) to the sharptooth catfish *Clarias gariepinus* Burchell, 1822

FUNDING

- 2016 – 2018 **National Research Foundation of South Africa (NRF-SA, Grant# 98836)**, African Origins Platform, Scarce Skills Framework, “Comparative stable isotope ecology of large-bodied mammalian carnivores and herbivores” ZAR 890 000
2014 – 2015 **NRF-SA (Grant# 91599)**, African Origins Platform, Scarce Skills Framework, “A conceptual model for interpreting variability in isotope niche breadths of fossil populations” ZAR 794 500
2014 **Palaeontological Scientific Trust (PAST)**, Conference Hosting, “From past to present – changing climates, ecosystems and environments of arid southern Africa: A tribute to Louis Scott” ZAR 60 000
2013 – 2014 **PAST**, Research Grant, “Do biotic interactions lead to an ideal-free distribution of trophic states within living and fossil mammal populations?” ZAR 74 850
2009 – 2011 **European Union (FP7 #236670)**, Marie Curie International Incoming Fellowship, “Isotopic fractionation in goats: effects of diet, diet quality, and intake” € 191 431
2009 **NRF-SA (Grant# 69785)**, Swiss-South African seminar series, “Adaptations of mammalian herbivores to dietary niches - from morphophysiology to feeding ecology” ZAR 36 020
2008 – 2009 **NRF-SA (Ref: FA2007040900001)**, Focus Area Grant, “Does C₄ grass limit the diversity of intermediate-feeding ruminants in Africa?” ZAR 152 100
2007 – 2008 **University of KwaZulu-Natal**, Competitive Research Grant, “Does C₄ grass limit the diversity of intermediate-feeding ruminants in Africa?” ZAR 139 500
2008 **PAST**, Research Grant, “Does C₄ grass limit the diversity of intermediate-feeding ruminants in Africa?” ZAR 50 000
2007 **NRF-SA**, Postdoctoral Scholarship, “Stable isotope analysis of landscape and biological evolution in the South African interior” ZAR 70 000
2007 **PAST**, Postdoctoral Research, “The evolution of grazing forms amongst savanna ungulates” ZAR 40 000

- 2004 - 2005 **PAST**, Doctoral Research, “*The ecological and evolutionary significance of browsing and grazing in savanna ungulates*” ZAR 90 000
- 2003 **PAST**, Masters Research, “*Dietary ecology of chacma baboons (Papio Ursinus (Kerr, 1792)) and Pleistocene Cercopithecoidea in savanna environments of South Africa*” ZAR 65 000

CAREER HIGHLIGHTS AND AWARDS

- 2009 – 2011 **Marie Curie European Union International Incoming Fellowship**, Isotopic fractionation in mammalian herbivores: effects of diet, diet quality, and intake
- 2012 **Nature News** doi:10.1038/nature.2012.10465, Kaplan M: Dinosaurs grew to outpace their young (see Codron et al. (2012) *Biol Lett* in publication list below)
- 2011 **Nature Appraisal** 472:9, Research Highlights: Evolutionary Biology “Bad for Your Teeth” (see Hummel et al. (2011) *Proc R Soc B*, in publication list below)
- 2009 **Meiring Naude Medal**, for excellent record in research, scientists under 35 years of age, Royal Society of South Africa
- 2001 **Henry Bradlow Bursary** for Honours Study, Rand Afrikaans University, South Africa

SERVICE

Journal reviews

Acta Oecologica; Acta Zool Fenn; Afr J Ecol; Am J Phys Anthropol; Archaeol Anthropol Sci; Austral Ecol; Bas Appl Ecol; Biol J Linn Soc; Biotropica; Can J Zool; Chem Geol; Comp Biochem Physiol; Ecography; Ecosphere; Funct Ecol; Int J Primatol; Int J Biodiv Cons; Isotopes Environ Health Studies; J Agric Biol Sci; J Anim Ecol; J Appl Ecol; J Archaeol Sci; J Biogeogr; J Comp Physiol B; J Horticult Forestry; J Hum Evol; J Mammal; J Zool; J Zool Syst Evol Res; Mamm Biol; Methods Ecol Evol; Oecologia; Ostrich; Palaeogeog Palaeoclimatol Palaeoecol; Physiol Biochem Zool; PLoS ONE; Proc Natl Acad Sci USA; Proc R Soc Lond B; Quat Int; Rapid Comm Mass Spectrom; S Afr J Range Forage Sci; S Afr J Sci; Science Adv; Trans R Soc S Afr; Wildl Biol Prac

Grant proposal reviews

- National Research Foundation, South Africa
- Cape Peninsula University of Technology, South Africa
- Centre of Excellence in Palaeosciences, University of the Witwatersrand, South Africa
- Leakey Foundation

Institutional Service

- 2015 Statistics workshops for biological researchers, National Museum, Bloemfontein, South Africa
- 2011 – present Science Forum Committee Member, National Museum, Bloemfontein, South Africa
- 2008 – 2009 School Planning & Resources Committee, Teaching and Learning Quality Committee, and Information Officer: School of Biological and Conservation Sciences, University of KwaZulu-Natal, South Africa

Conference Hosting

- 2013 - 2014 Organizing and scientific committees, *From past to present – changing climates, ecosystems and environments of arid southern Africa: A tribute to Louis Scott*, Bloemfontein, South Africa, 7-11 July
- 2008 - 2009 Organizing committee, *50th Anniversary Conference of the Zoological Society of Southern Africa*, Illovo, South Africa, 2-9 July
- 2008 Session organizer and chair, *Large herbivores, wildlife ecology, and palaeoecology*, 6th International conference on applications of stable isotope techniques to ecological studies, Honolulu, Hawaii, 25-29 August

Outreach (selected items)

- 2012 – 2017 Palaeontology tours: Florisbad Quaternary Research Station, South Africa
- 2015 (Oct) Invited lecture, University of the Third Age, Bloemfontein, South Africa
- 2015 (Sep) Scientific Advisor, Envirokids inter-schools global warming challenge, EduPlus Independent School, Bloemfontein, South Africa
- 2013 Workshops for teachers of life sciences and evolution at Grades 10 to 12: Mangaung and Motheo Districts, Free State Province, South Africa

MEMBERSHIP

2008 – present Zoological Society of South Africa
2006 – present Palaeontological Society of South Africa
2005 – present South African Wildlife Management Association

SKILLS

- Conceptualization of testable hypotheses and appropriate project designs
- Data collection, storage and management
- Statistical analysis of biological datasets, using software including R, VBA, STATISTICA
- Software development: VBA, HTML, CSS, PHP, Jscript
- Analysis and interpretation of stable isotope compositions in biological material
- Analysis and interpretation of anatomical and physiological datasets in allometric, functional, and macroevolutionary contexts
- Field ecology, experimental ecology, husbandry of experimental animals
- Writing of manuscripts for peer-review in scientific journals, technical reports, and popular outlets

RESEARCH OUTPUT

Journal articles: 84; Published Abstracts:19; Citations: 1 814; H-index: 26 (source: <http://www.researcherid.com/rid/B-8867-2008>, 08/10/2018)

Journal Articles

- Ehrlich C, **Codron D**, Hofmann RR, Hummel J, Clauss M (in press) Comparative omasum anatomy in ruminants: relationships with natural diet, digestive physiology, and general considerations on allometric investigations. *J Morphol*.
- Schiffmann C, Hatt J-M, Hoby S, **Codron D**, Clauss M (in press) Elephant body mass cyclicity suggests effect of molar progression on chewing efficiency. *Mammalian Biology - Zeitschrift für Säugetierkunde*.
- Codron D**, Clauss M, Codron J, Tütken T (2018) Within trophic level shifts in collagen–carbonate stable carbon isotope spacing are propagated by diet and digestive physiology in large mammal herbivores. *Ecology and Evolution* 8:3983-3995.
- Codron D**, Radloff FGT, Codron J, Kerley GIH, Tambling CJ (2018) Meso-carnivore niche expansion in response to an apex predator's reintroduction - a stable isotope approach. *African Journal of Wildlife Research* 48: 10.3957/056./048.013004.
- Codron J, Avenant NL, Wigley-Coetsee C, **Codron D** (2018) Carnivore stable carbon isotope niches reflect predator-prey size relationships in African savannas. *Integr Zool* 13:166-179.
- De Cuyper A, Clauss M, Carbone C, **Codron D**, Cools A, Hesta M, Janssens G (2018) Predator size and prey size-gut capacity ratios determine kill frequency and carcass production in terrestrial carnivorous mammals. *Oikos* doi.101111/oik.05488.
- Henry AG, Hutschenreuther A, Paine OO, Leichliter J, **Codron D**, Codron J, Loudon J, Adolph S, Sponheimer M (2018) Influences on plant nutritional variation and their potential effects on hominin diet selection. *Rev Palaeobot Palynol* doi:10.1016/j.revpalbo.2018.11.001.
- Holt S, **Codron D**, Horwitz LK (2018) Bone mineral density in the leopard tortoise: implications for inter-taxon variation and bone survivorship in an archaeozoological assemblage. *Quat Int* doi:10/1016/j.quaint.2018.04.020.
- Paine OCC, Koppa A, Henry AG, Leichliter JN, **Codron D**, Codron J, Lambert JE, Sponheimer M (2018) Grass leaves as potential hominin dietary resources. *J Hum Evol* 117:44-52.
- Clauss M, Fritz J, Tschuor A, Braun U, Hummel J, **Codron D** (2017) Dry matter and digesta particle size gradients along the goat digestive tract on grass and browse diets. *J Anim Physiol Anim Nutr* 101:61-69.
- Codron J, Botha-Brink J, **Codron D**, Huttenlocker A, Angielczyk KD (2017) Predator–prey interactions amongst Permo-Triassic terrestrial vertebrates as a deterministic factor influencing faunal collapse and turnover. *J Evol Biol* 30:40-54.
- Gillis-Germitsch N, Vybiral P-R, **Codron D**, Clauss M, Kotze A, Mitchell EP (2017) Intrinsic factors, adrenal gland morphology, and disease burden in captive cheetahs (*Acinonyx jubatus*) in South Africa. *Zoo Biol* 36:40-49.
- Leichliter J, Sandberg P, Passey B, **Codron D**, Avenant N, Paine O, Codron J, de Ruiter D, Sponheimer M (2017) Stable carbon isotope ecology of modern small mammals from the Sterkfontein Valley: implications for habitat reconstruction in mosaic environments. *Palaeogeogr Palaeoclimatol Palaeoecol* 485:57-67.
- Mutirwara R, Radloff FGT, **Codron D** (2017) Growth rate and stable carbon and nitrogen isotope trophic discrimination factors of lion and leopard whiskers. *Rapid Commun Mass Spectrom* 32:33-47.

- Richard OK, **Codron D**, Hagen KB, Südekum K-H, Clauss M (2017) Little differences in digestive efficiency for protein and fat in mammals of different trophic guilds and digestive strategies: data constraints or fundamental functional similarity? *J Anim Physiol Anim Nutr* 101 (suppl 1):127-141.
- Botha-Brink J, **Codron D**, Huttenlocker AK, Angielczyk KD, Ruta M (2016) Breeding young as a survival strategy during Earth's greatest mass extinction. *Sci Rep* 6:24053.
- Codron D**, Codron J, Sponheimer M, Clauss M (2016) Within-population isotopic niche variability in savanna mammals: disparity between carnivores and herbivores. *Front Ecol Evol* 4:15.
- Djagoun CAMS, **Codron D**, Sealy J, Mensah GA, Sinsin B (2016) Isotopic niche structure of a mammalian herbivore assemblage from a West African savanna: Body mass and seasonality effect. *Mamm Biol* 81:644-650.
- Leichtler JN, Sponheimer M, Avenant NL, Sandberg PA, Paine OCC, **Codron D**, Codron J, Passey BH (2016) Small mammal insectivore stable carbon isotope compositions as habitat proxies in a South African savanna ecosystem. *J Archaeol Sci Rep* 8:335-345.
- Codron J, Duffy KJ, Avenant NL, Sponheimer M, Leichtler J, Paine O, Sandberg P, **Codron D** (2015) Stable isotope evidence for trophic niche partitioning in a South African savanna rodent community. *Curr Zool* 61:397-411.
- Müller J, Clauss M, **Codron D**, Schulz E, Hummel J, Kircher P, Hatt J-M (2015) Tooth length and incisal wear and growth in guinea pigs (*Cavia porcellus*) fed diets of different abrasiveness. *J Anim Physiol Anim Nutr* 99:591-604.
- Carbone C, **Codron D**, Scofield C, Clauss M, Bielby J (2014) Geometric factors influencing the diet of vertebrate predators in marine and terrestrial environments. *Ecol Lett* 17:1553-1559.
- Clauss M, Dittmann MT, Müller DWH, Zerbe P, **Codron D** (2014) Low scaling of a life history variable: analysing eutherian gestation periods with and without phylogeny-informed statistics. *Mamm Biol* 79:9-16.
- Clauss M, Schiele K, Ortmann S, Fritz J, **Codron D**, Hummel J, Kienzle E (2014) The effect of very low food intake on digestive physiology and forage digestibility in horses. *J Anim Physiol Anim Nutr* 98:107-118.
- Gattiker C, Espie I, Kotze A, Lane EP, **Codron D**, Clauss M (2014) Diet and diet-related disorders in captive ruminants at the National Zoological Gardens of South Africa. *Zoo Biol* 33:426-432.
- Lane EP, Clauss M, Kock ND, Hill FWG, Majok AA, Kotze A, **Codron D** (2014) Body condition and ruminal morphology responses of free-ranging impala (*Aepyceros melampus*) to changes in diet. *Eur J Wildl Res* 60:599-612.
- Müller J, Clauss M, **Codron D**, Schulz E, Hummel J, Fortelius M, Kircher P, Hatt J-M (2014) Growth and wear of incisor and cheek teeth in domestic rabbits (*Oryctolagus cuniculus*) fed diets of different abrasiveness. *J Exp Zool* 321A:283-298.
- Ritz J, **Codron D**, Wenger S, Rensch EE, Hatt J-M, Braun U, Clauss M (2014) Ruminal pH in cattle (*Bos primigenius* f. *taurus*) and moose (*Alces alces*) under different feeding conditions: a pilot investigation. *J Zoo Aqu Res* 2:44-51.
- Taylor LA, Müller DWH, Schwitzer C, Kaiser TM, **Codron D**, Schulz E, Clauss M (2014) Tooth wear in captive rhinos differs from that of free-ranging conspecifics. *Contrib Zool* 83:107-117.
- Clauss M, Dittmann MT, Müller DWH, Meloro C, **Codron D** (2013) Bergmann's rule in mammals: a cross-species interspecific pattern. *Oikos* 122:1465-1472.
- Clauss M, Müller DWH, **Codron D** (2013) Source references and the scientist's mind-map: Harvard vs. Vancouver style. *J Schol Publ* 44:274-282.
- Clauss M, Steuer P, Müller DWH, **Codron D**, Hummel J (2013) Herbivory and body size: allometries of diet quality and gastrointestinal physiology, and implications for herbivore ecology and dinosaur gigantism. *PLOS ONE* 8:e68714.
- Codron D**, Carbone C, Clauss M (2013) Ecological interactions in dinosaur communities: Influences of small offspring and complex ontogenetic life histories. *PLOS ONE* 8:e77110.
- Codron J, Kirkman K, Duffy KJ, Sponheimer M, Lee-Thorp JA, Ganswindt A, Clauss M, **Codron D** (2013) Stable isotope turnover and variability in tail hairs of captive and free-ranging African elephants (*Loxodonta africana*) reveal dietary niche differences within populations. *Can J Zool* 91:124-134.
- Codron J, Lee-Thorp JA, Sponheimer M, **Codron D** (2013) Plant stable isotope composition across habitat gradients in a semi-arid savanna: implications for environmental reconstruction. *J Quat Sci* 28:301-310.
- Djagoun CAMS, **Codron D**, Sealy J, Mensah GA, Sinsin B (2013) Stable carbon isotope analysis of the diets of West African bovids in Pendjari Biosphere Reserve, Northern Benin. *S Afr J Wildl Res* 43:33-43.
- Kaiser DP, Müller DWH, Fortelius M, Schulze E, **Codron D**, Clauss M (2013) Hypsodonty and tooth facet development in relation to diet and habitat in herbivorous ungulates: implications for understanding tooth wear. *Mammal Rev* 43:34-46.
- Lauper M, Lechner I, Barboza PS, Collins WB, Hummel J, **Codron D**, Clauss M (2013) Rumination of different-sized particles in muskoxen (*Ovibos moschatus*) and moose (*Alces alces*) on grass and browse diets, and implications for rumination in different ruminant feeding types. *Mamm Biol* 78:142-152.

- Müller DWH, **Codron D**, Meloro C, Munn A, Schwarm A, Hummel J, Clauss M (2013) Assessing the Jarman–Bell Principle: scaling of intake, digestibility, retention time and gut fill with body mass in mammalian herbivores. *Comp Biochem Physiol A* 164:129-140.
- Ritz J, Hofer K, Hofer E, Hackländer K, Immekus D, **Codron D**, Clauss M (2013) Forestomach pH in hunted roe deer (*Capreolus capreolus*) in relation to forestomach region, time of measurement, supplemental feeding, and a comparison among wild ruminant species. *Eur J Wildl Res* 59:505-517.
- Taylor LA, Kaiser TM, Schwitzer C, Müller DWH, **Codron D**, Clauss M, Schulz E (2013) Detecting inter-cusp and inter-tooth wear patterns in rhinocerotids. *PLOS ONE* 8:e80921.
- Wernick MB, Steinmetz HW, Martin-Jurado O, Howard J, Vogt R, **Codron D**, Hatt J-M (2013) Comparison of fluid types for resuscitation in acute hemorrhagic shock and evaluation of gastric luminal and transcutaneous P_{CO2} in Leghorn Chickens. *J Avian Med Surg* 27:109-119.
- Codron D**, Carbone C, Müller DWH, Clauss M (2012) Ecological modelling, size distributions and taphonomic size bias in dinosaur faunas: reply to Brown *et al.* *Biol Lett* doi: 10.1098/rsbl.2012.0922.
- Codron D**, Carbone C, Müller DWH, Clauss M (2012) Ontogenetic niche shifts in dinosaurs influenced size, diversity and extinction in terrestrial vertebrates. *Biol Lett* 8:620-623.
- Codron D**, Sponheimer M, Codron J, Hammer S, Tschuor A, Braun U, Bernasconi SM, Clauss M (2012) Tracking the fate of digesta ¹³C and ¹⁵N compositions along the ruminant gastrointestinal tract: does digestion influence the relationship between diet and faeces? *Eur J Wildl Res* 58:303-313.
- Codron D**, Sponheimer M, Codron J, Newton I, Lanham JL, Clauss M (2012) The confounding effects of source isotopic heterogeneity on consumer-diet and tissue-tissue stable isotope relationships. *Oecologia* 169:939-953.
- Codron J, **Codron D**, Sponheimer M, Kirkman K, Duffy KJ, Raubenheimer EJ, Mélice JL, Grant R, Clauss M, Lee-Thorp JA (2012) Stable isotope series from elephant ivory reveal lifetime histories of a true dietary generalist. *Proc R Soc Lond B Biol Sci* 279:2433-2441.
- Müller DWH, **Codron D**, Werner J, Fritz J, Hummel J, Griebeler EM, Clauss M (2012) Dichotomy of eutherian reproduction and metabolism. *Oikos* 121:102-115.
- Zerbe P, Clauss M, **Codron D**, Lackey LB, Rensch E, Streich WJ, Hatt J-M, Müller DWH (2012) Reproductive seasonality in captive wild ruminants: implications for biogeographical adaptation, photoperiodic control, and life history. *Biol Rev (Camb)* 87:965-990.
- Clauss M, Lechner I, Barboza P, Collins W, Tervoort TA, Südekum K-H, **Codron D**, Hummel J (2011) The effect of size and density on the mean retention time of particles in the reticulorumen of cattle (*Bos primigenius* f. *taurus*), muskoxen (*Ovibos moschatus*) and moose (*Alces alces*). *Br J Nutr* 105:634-644.
- Clauss M, Lunt N, Ortmann S, Plowman A, **Codron D**, Hummel J (2011) Fluid and particle passage in three duiker species. *Eur J Wildl Res* 57:143-148.
- Codron D**, Codron J, Sponheimer M, Bernasconi SM, Clauss M (2011) When animals are not quite what they eat: Diet digestibility influences ¹³C-incorporation rates and apparent discrimination in a mixed-feeding herbivore. *Can J Zool* 89:453-465.
- Codron D**, Hull J, Brink JS, Codron J, Ward D, Clauss M (2011) Effect of competition on niche dynamics of syntopic grazing ungulates: contrasting the predictions of habitat selection models using stable isotope analysis. *Evol Ecol Res* 13:217-235.
- Codron J, **Codron D**, Lee-Thorp JA, Sponheimer M, Kirkman K, Duffy KJ, Sealy J (2011) Landscape-scale feeding patterns of African elephant inferred from carbon isotope analysis of feces. *Oecologia* 165:89-99.
- Copeland SR, Sponheimer M, de Ruiter DJ, Lee-Thorp JA, **Codron D**, le Roux PJ, Grimes V, Richards MP (2011) Strontium isotope evidence for landscape use by early hominins. *Nature* 474:76-79.
- Hummel J, Findeisen E, Südekum K-H, Ruf I, Kaiser T, Bucher M, M. C, **Codron D** (2011) Another one bites the dust: faecal silica levels in large herbivores correlate with high-crowned teeth. *Proc R Soc Lond B Biol Sci* 278:1742-1747.
- Müller DWH, Caton J, **Codron D**, Schwarm A, Lentle R, Streich WJ, Hummel J, Clauss M (2011) Phylogenetic constraints on digesta separation: Variation in fluid throughput in the digestive tract in mammalian herbivores. *Comp Biochem Physiol A* 160:207-220.
- Müller DWH, Zerbe P, **Codron D**, Clauss M, Hatt J-M (2011) A long life among ruminants: giraffids and other special cases. *Schweiz Arch Tierheilkd* 153:515-519.
- Pirovino M, Heistermann M, Zimmermann N, Zingg R, Clauss M, **Codron D**, Kaup F-J, Steinmetz HW (2011) Fecal glucocorticoid measurements and their relation to rearing, behavior, and environmental factors in the population of pileated gibbons (*Hylobates pileatus*) held in European zoos. *Int J Primatol* 32:1161-1178.
- Tschudin A, Clauss M, **Codron D**, Hatt J-M (2011) Preference of rabbits for drinking from open dishes versus nipple drinkers. *Vet Rec* 168:190-191.
- Tschudin A, Clauss M, **Codron D**, Hatt J-M (2011) Water intake in domestic rabbits (*Oryctolagus cuniculus*) from open dishes and nipple drinkers under different water and feeding regimes. *J Anim Physiol Anim Nutr* 95:499-511.

- Codron D**, Clauss M (2010) Rumen physiology constrains diet niche: linking digestive physiology and food selection across wild ruminant species. *Can J Zool* 88:1129-1138.
- Copeland SR, Sponheimer M, Lee-Thorp JA, de Ruiter DJ, le Roux PJ, Grimes V, **Codron D**, Codron J, Berger L, Richards MP (2010) Using strontium isotopes to study site accumulation processes. *J Taphon* 8:115-127.
- Codron D**, Codron J (2009) Reliability of $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ in faeces for reconstructing savanna herbivore diet. *Mamm Biol* 74:36-48.
- Codron D**, Codron J, Lee-Thorp JA, Sponheimer M, Grant CC, Brink JS (2009) Stable isotope evidence for nutritional stress, competition, and loss of functional habitat as factors limiting recovery of rare antelope in southern Africa. *J Arid Environ* 73:449-457.
- Copeland SR, Sponheimer M, Spinage CA, Lee-Thorp JA, **Codron D**, Reed KE (2009) Stable isotope evidence for impala *Aepyceros melampus* diets at Akagera National Park, Rwanda. *Afr J Ecol* 47:490-501.
- Sponheimer M, **Codron D**, Passey BH, Lee-Thorp JA, De Ruiter D, Cerling TE (2009) Using carbon isotopes to track dietary change in modern, historical, and ancient primates: a look at the methods and a discussion of fallback foods in australopith diets. *Am J Phys Anthropol* 140:661-670.
- Codron D**, Brink JS, Rossouw L, Clauss M (2008) The evolution of ecological specialization in southern African ungulates: competition or physical environmental turnover? *Oikos* 117:344-353.
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