

An Improved *Journal of Dairy Science* Style for Zotero

(Originally written 12/09/2016, revised 12/17/2016)

John B. Cole

Animal Genomics and Improvement Laboratory, ARS, USDA

john.cole@ars.usda.gov

OVERVIEW

The free reference manager, Zotero (<https://www.zotero.org/>), is a very nice tool. However, it has one major flaw in my opinion: the *Journal of Dairy Science* style in the Zotero Style Repository (<https://www.zotero.org/styles>) is not compliant with JSD style. Most notably, it italicizes journal names, but there are a number of other small inconsistencies, as well. I'm sure that many of you have thought, "Someone should fix that!" Well, my friends, someone finally has. Imperfectly, to be sure, but I believe that the new "2016 Journal of Dairy Science" style is a notable improvement over the existing style. In this document I have recreated all of the examples in the "*Journal of Dairy Science*® Instructions to Authors: Style and Form" with about 95% fidelity. I have not edited any of the references to correct those minor errors, with the exception of one callout. If memory serves, and it may not at this point, *Journal of Animal Science* uses a very similar style to JDS, so you may be able to kill two birds with one style, as it were.

SAMPLE CALLOUTS

Reference management is universally frustrating (Goering and Van Soest, 1970; Lengemann et al., 1974; Kelly, M.G., 1977; Biernoth and Merk, 1985; National Mastitis Council, 1995; Barbano, 1996; de Vries and Veerkamp, 2000; National Research Council, 2001; US Department of Agriculture, Plant and Animal Health Inspection Service, 2004, 69 69; Interbull, 2008; VanRaden, 2008; Hayes et

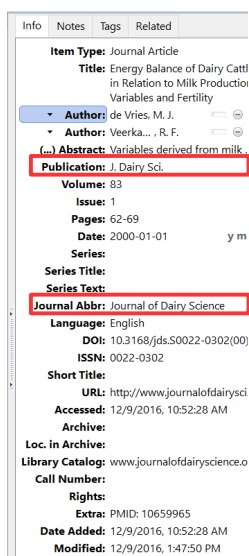
al., 2009; FASS, 2010; Buch et al., 2011; Jenkins et al., 2011; AOAC International, 2012, [CSL STYLE ERROR: reference with no printed form.]).

USAGE NOTES

User database issues

There are a couple of things which appear to be errors in the style but are actually due to incorrect entries in your Zotero database. You can see examples of both of the following points by referring to the de Vries and Veerkamp (2000) reference below.

Articles. When importing literature using the Zotero browser plugin for Firefox I often see that the full journal title (“Publication”) field actually contains the abbreviated title, and the abbreviated title (“Journal Abbr”) field contains the full title (see figure below). When this happens, the bibliography entry is not correct – it produces “J Dairy Sci” (the periods are stripped out of the full title by the style) instead of “J. Dairy Sci.” (the proper abbreviated form produced from the full journal title by selecting “Automatically abbreviate journal titles” in the “Set Document Preferences” window). **You must make sure that the full and abbreviated journal titles are stored in the correct fields in your database!**



Titles. You will sometimes see that journal titles are rendered in title case (e.g., “Efficient Methods to Compute Genomic Predictions”) rather than sentence case (e.g., “Efficient methods to

compute genomic predictions”). I initially fixed this by forcing the titles into sentence case, but this is strongly discouraged (https://www.zotero.org/support/kb/sentence_casing). **The fix is to ensure that titles are entered into your database using sentence case.** This is a hassle because titles are rendered in title case on the JDS website (e.g., [http://www.journalofdairyscience.org/article/S0022-0302\(08\)70990-1/fulltext](http://www.journalofdairyscience.org/article/S0022-0302(08)70990-1/fulltext)) and the import filter catches that form of the title. (It happens with other journals, too, such as PLOS ONE.)

Other rough edges

There are also a few other peculiarities with the “improved” version of the JDS Zotero style. Please be aware of the following rough edges. I used this Zotero Item Types cross-reference to figure out what mapped Zotero variables map to which CSL entities:

<https://web.archive.org/web/20150831055105/http://aurimasv.github.io/z2csl/typeMap.xml>.

Articles. When referring to an abstract you will need to edit the final result to insert the proper volume number and abstract notation, e.g., “94(E-Suppl. 1):509. (Abstr.)”. I haven’t been able to figure out another way to do this using CSL. It would be tricky in BiBTeX, too.

Author sorting. It appears that references with first authors having compound last names (e.g., “de Vries”) are sorted by “Vries” rather than “de”. This isn’t a problem with the style, exactly, but I have noticed it. I’ve done a little searching, and there may be a way to fix this by making a change in your Zotero configuration, but for now the easiest way to handle it is manually immediately before submission.

Federal regulations. I used the Zotero “Statute” Item Type (maps to the CSL “Legislation” type) to recreate the (US Department of Agriculture, Plant and Animal Health Inspection Service, 2004, 69 69), but it’s kind of a mess. In order to recreate the example you must do the following in your Zotero database entry: 1) put “Fed. Reg.” in the “Code” field, 2) put “95CFR Part 71” in the “Code Number” field, 3) put “69” in the “Section” field, and 4) put “2004” in the “Date Enacted” field. It’s a horrible kludge, but how many of us frequently cite the Federal Register, anyway? I don’t know why the

callout for this reference has the Federal Register volume number embedded after the year. It may be possible to fix this by creating an Inline Citation format specifically for Legislation items.

Patents. The “assignee” field in Zotero doesn’t map to a CSL field. In order to recreate the example I put the assignee into the “Extra” field in Zotero. There are some hard-coded values, such that only US patents currently are supported.

Theses. The “Type” field in Zotero should contain “MS”, “PhD”, “ScD”, etc.

Websites. The accessed date needs to be edited by hand to get the short month abbreviation.

ERRATA

There are some errors in the examples provided in the “*Journal of Dairy Science*® Instructions to Authors: Style and Form”.

- “Chapinal, N., A. M. de Passille, D. M. Weary, M. A. Hayes, B. J., P. J. Bowman, A. C. Chamberlain, K. Savin, C. P. van Tassell, T. S. Sonstegard, and M. E. Goddard” should be “Hayes, B. J., P. J. Bowman, A. C. Chamberlain, K. Savin, C. P. Van Tassell, T. S. Sonstegard, and M. E. Goddard” (**Extra authors inserted, typo in “Van Tassell”.**)
- “US Department of Agriculture, Plant and Animal Health Inspection Service” should be “US Department of Agriculture, Animal and Plant Health Inspection Service” (**It’s APHIS, not PAHIS.**)
- I think that it’s customary to include a space when referring to the Code of Federal Regulations, e.g., “95 CFR” rather than “95CFR”.

REFERENCES

AOAC International. 2012. Official Methods of Analysis. 19th ed. AOAC International, Gaithersburg, MD.

Barbano, D.M. 1996. Mozzarella cheese yield: Factors to consider. Page 29 in Proc. Wisconsin Cheese Makers Mtg., Madison. Ctr. Dairy Res., Univ. Wisconsin, Madison.

- Biernoth, G., and W. Merk. 1985. Fractionation of milk fat using a liquified gas or a gas in the supercritical state. Unilever NV-PLC, assignee. US Pat. No. 4,504,503.
- Buch, L.H., A.C. Sørensen, J. Lassen, P. Berg, J.-Å. Eriksson, J.H. Jakobsen, and M.K. Sørensen. 2011. Hygiene-related and feed-related hoof diseases show different patterns of genetic correlations to clinical mastitis and female fertility. *J. Dairy Sci.* 94:1540–1551. doi:10.3168/jds.2010-3137.
- FASS. 2010. Guide for the Care and Use of Agricultural Animals in Research and Teaching. 3rd ed. Federation of Animal Science Societies, Champaign, IL.
- Goering, H.K., and P.J. Van Soest. 1970. Forage Fiber Analyses (Apparatus, Reagents, Procedures, and Some Applications). Agric. Handbook. No. 379. ARS-USDA, Washington, DC.
- Hayes, B.J., P.J. Bowman, A.J. Chamberlain, K. Savin, C.P. Van Tassell, T.S. Sonstegard, and M.E. Goddard. 2009. A validated genome wide association study to breed cattle adapted to an environment altered by climate change. *PLOS ONE* 4:e6676. doi:10.1371/journal.pone.0006676.
- Interbull. 2008. Genetic Evaluation. Direct Longevity. Accessed December 20, 2012. <http://www-interbull.slu.se/longevity/l-aug08.html>.
- Jenkins, T.C., E. Block, and P.H. Morris. 2011. Potassium reduces the accumulation of trans-10, cis-12 conjugated linoleic acid and trans-18:1 in continuous cultures of mixed ruminal microorganisms regardless of dietary fat level. *J. Dairy Sci.* 94:509.
- Kelly, M.G. 1977. Genetic parameters of growth in purebred and crossbred dairy cattle. MS Thesis. North Carolina State University, Raleigh, NC.
- Lengemann, F.W., R.A. Wentworth, and C.L. Comar. 1974. Physiological and biochemical aspects of the accumulation of contaminant radionuclides in milk. B.L. Larson and V.R. Smith, ed. Academic Press, London, UK.

- National Mastitis Council. 1995. Summary of peer-reviewed publications on efficacy of premilking and postmilking teat disinfections published since 1980. Pages 82–92 in Natl. Mastitis Counc. Reg. Mtg. Proc., Harrisburg, PA. Natl. Mastitis Counc., Inc., Madison, WI.
- National Research Council. 2001. Nutrient Requirements of Dairy Cattle. 7th rev. National Academy Press, Washington, DC.
- US Department of Agriculture, Plant and Animal Health Inspection Service. 2004. Blood and tissue collection at slaughtering and rendering establishments, final rule. 95CFR part 71. Fed. Regist. 69:10137–10151.
- VanRaden, P.M. 2008. Efficient methods to compute genomic predictions. J. Dairy Sci. 91:4414–4423. doi:10.3168/jds.2007-0980.
- de Vries, M.J., and R.F. Veerkamp. 2000. Energy Balance of Dairy Cattle in Relation to Milk Production Variables and Fertility. J Dairy Sci 83:62–69. doi:10.3168/jds.S0022-0302(00)74856-9.