

Selected Publications:

Bandini, G. S. Damerow, M. L.S. Güther, A. Mehlert, H. Guo, S. M. Beverley and M. A. J. Ferguson (2019) “An essential GDP-Fuc: β -D-Gal α -1,2-fucosyltransferase is located in the mitochondrion of *Trypanosoma brucei*”, <https://www.biorxiv.org/content/10.1101/726117v1>.

John Filosa 1, Corbett T. Berry 1,#a, Gordon Ruthell1, Stephen M. Beverley 2, Wesley C. Warren 3,#b, Chad Tomlinson 3, Peter Myler 4,5,6, Elizabeth Dudkin 7, Megan L. Povelones 7*, and Michael Povelones 1*, (2019), “[Dramatic changes in gene expression in different forms of *Crithidia fasciculata* reveal potential mechanisms for insect-specific adhesion in kinetoplastid parasites](#)“, PLoS Neglected Tropical Diseases 13(7):e0007570. PMID: 6687205.

Inbar, E., J. Shaik, S.A. Iantorno, A. Romano, C. O. Nzelu, K.L. Owens, M. J. Sanders, D.E. Dobson, J. A. Cotton, M. E. Grigg, S. M. Beverley*, and D. L. Sacks*, (* authors contributed equally to this manuscript), (2019), “[Whole genome sequencing of experimental hybrids reveals meiosis-like sexual recombination in *Leishmania*](#)“, PLoS Genetics 15(5): e1008042. PMID: PMC6519804.

Robinson, J.I. and S. M. Beverley, (2018), “[Concentration of 2’C-methyladenosine triphosphate by *Leishmania guyanensis* enables specific inhibition of the *Leishmania* RNA virus 1 polymerase](#)“, J. Biol. Chem., J. Biol. Chem.293:6460-6469. PMID: PMC5925801

Grybchuk, D., N. S. Akopyants\$, A. Y. Kostygov\$, A. Konovalovas, L-F Lye, D. E. Dobson, H. Zangger, N. Fasel, A. Butenko, A. O. Frolov, J. Votýpka, C. M. d’Avila-Levy, P. Kulich, J. Moravcová, P. Plevka, I. B. Rogozin, S. Serva, J. Lukeš, S.M. Beverley*, and V. Yurchenko*, (2017), “[Viral discovery and diversity in trypanosomatid protozoa with a focus on relatives of the human parasite *Leishmania*](#)”, Proc. Natl. Acad. Sci. USA 115(3): E506-E515. \$,* authors contributed equally to this manuscript. PMID: PMC5776999

Rossi, M, P. Castiglioni, M-A. Hartley, R. O. Eren, F. Prével, C. Desponds, D. T. Utzschneider, D. Zehn, M. G. Cusi, F. M. Kuhlmann, S. M. Beverley, C. Ronet, and N. Fasel (2017), “[Type I interferons induced by endogenous or exogenous viral infections promote metastasis and relapse of leishmaniasis](#)“, Proc. Natl. Acad. Sci. USA 114: 4987-4992. PMID: PMC5441690

Kuhlmann, F.M. J.I. Robinson, G. Bluemling, C. Ronet, N. Fasel, and S.M. Beverley (2017), “[Anti-viral Screening Identifies Adenosine Analogs Targeting the Endogenous dsRNA *Leishmania* RNA Virus 1 \(LRV1\) Pathogenicity Factor](#)“, Proc. Natl. Acad. Sci. USA 114: E811-E819. PMID: PMC5293060.

Brettmann, E.A., J. Shaik, H. Zangger, L-F. Lye, F. M. Kuhlmann, N. S. Akopyants, D. M. Oswald, K.L. Owens, S. M. Hickerson, C. Ronet, N. Fasel, and S. M. Beverley (2016), “[Tilting the balance between RNA interference and replication eradicates *Leishmania* RNA virus 1 and mitigates the inflammatory response](#)“, Proc. Natl. Acad. Sci. USA 113:11998-12005. PMID: PMC5131895

Guo, H., N. M. Novozhilova, G. Bandini, S.J. Turco, M. A. J. Ferguson and S. M. Beverley (2017), “[Genetic Metabolic Complementation Establishes a Requirement for GDP-Fucose in *Leishmania*](#)“, J. Biol. Chem. 292: 10696-10708. PMID: PMC5481574

Mandell, M.A. and S. M. Beverley (2017), “[Continual renewal and replication of persistent *Leishmania major* parasites in concomitantly immune hosts](#)“, Proc. Natl. Acad. Sci. USA 114: E801-E810. PMID: PMC5293024.

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(2016), “[Mammalian Innate Immune Response to a *Leishmania*-Resident RNA Virus Increases Macrophage Survival to Promote Parasite Persistence](#)“, Cell Host Microbe 20: 318-28.

Mandell, M.A., and S.M. Beverley (2016), “[Concomitant immunity induced by persistent *Leishmania major* does not preclude secondary re-infection: implications for genetic exchange, diversity and vaccination](#)“, PLoS Neglected Tropical Diseases 10(6): e0004811.

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