

## CURRICULUM VITAE

**Date of this revision: July 6th, 2017.**

**Name:** Geoffrey M Attardo, Ph.D.

**Education:**

B.S. Entomology, University of Massachusetts Amherst, 1994  
Ph.D. Genetics, Michigan State University, 2004

**Career/Academic Appointments:**

1995-98 Laboratory technician, Department of Entomology, University of Massachusetts, Amherst, MA  
2004-08 Postdoctoral Fellow in the Yale University School of Public Health, New Haven, CT  
2008-2012 Associate Research Scientist, Yale University School of Public Health, New Haven, CT  
2012-Present Research Scientist, Yale University School of Public Health, New Haven, CT

**Professional Honors & Recognition:**

International/National/Regional

2011: Winner of the 2010 Fogarty Grantee Photo contest  
2011: Yale School of Public Health Magazine Feature Fall 2011, "An Eye for the Tsetse Fly"

**Grant History:**

A) Current Grants

Fogarty 2D34TW007391-07 (Aksoy PI, Attardo Collaborator) 9/1/2015-1/3/2018  
Fogarty Direct Cost \$451,570  
African Fogarty Effort: 10%

B) Past Grants

R21 1R21AI109263-01 (Aksoy PI, Attardo PI) 01/06/2014 - 12/31/2016  
NIH/NIAID Direct Cost \$131,670  
Expanding the Toolbox for Tsetse Reproductive Biology Effort: 31%

5R01 AI08177405 (Aksoy PI, Attardo co-PI) 07/01/2009 – 06/30/2016  
NIH/NIAID Direct Cost \$1,215,499  
Tsetse Fecundity Reduction for Trypanosome Control Effort: 57%  
Ambrose Monell Foundation 01/12/06-01/12/2010  
Aksoy, PI, Attardo Collaborator \$100,000/year  
Tsetse-trypanosome interactions

F32 GM077964 (Attardo, PI) 05/01/06 – 04/30/08  
NIH/Ruth Kirschstein Postdoctoral Training Fellowship \$45,976/year  
Molecular Analysis of Tsetse Fly Reproduction

**Invited Speaking Engagements, Presentations and Symposia:**

- 2017: **Invited Speaker**, Yale School of Public Health, Department of Epidemiology of Microbial Diseases (New Haven, Connecticut). “Tsetse Fly Reproduction: Exploration of the Unique Physiological Adaptations of a Neglected Disease Vector”
- 2017: **Invited Speaker**, IBM Thomas J Watson Research Center (Yorktown Heights, New York). “Tsetse Fly Reproduction: Exploration of the Unique Physiological Adaptations of a Neglected Disease Vector”
- 2016: **Invited Speaker**, Pennsylvania State University, Department of Entomology (State College, Pennsylvania). “Got Milk? The Unique Reproductive Biology of the Tsetse Fly”
- 2015: **Invited Speaker**, University of Connecticut, 4th Annual Connecticut Symbiosis Symposium. “The Essential Role of Symbiosis in Tsetse Viviparous Reproduction”
- 2015: **Invited Speaker**, International Livestock Research Institute (Nairobi, Kenya). “Live birth, lactation and the unique reproductive biology of tsetse flies.”
- 2015: **Invited Speaker**, ISCB-Africa ASBCB Conference on Bioinformatics (Dar es Salaam, Tanzania). “The sequencing and annotation of the tsetse fly (*Glossina morsitans*) genome, a ten year international effort.”
- 2015: **Invited Speaker**, Connecticut Entomological Society (Yale University). “Got Milk? Live birth, lactation and the unique reproductive biology of tsetse flies.”
- 2014: **Invited Speaker**, Katholieke Universiteit Leuven, Section of Animal Physiology and Neurobiology. “Unlocking the Secrets of Lactation in the Tsetse Fly: New Findings from the Omics Era”
- 2013: **Invited Speaker**, University of Delaware, Department of Entomology. “Got Milk? The Story of Lactation in the Tsetse Fly.”
- 2012: **Invited Speaker**, Howard Hughes Medical Institute: Janelia Farm Campus (Ashburn, VA). “Discover, Characterization and Regulation of Tsetse Milk Proteins”
- 2012: **Invited Speaker**, XXIV International Congress of Entomology (Daegu, South Korea). “Annotation and Functional Genomics of the Tsetse Fly (*Glossina morsitans morsitans*) Genome”
- 2011: **Invited Speaker**, Entomological Society of America, Annual Meeting (Reno, NV). “Got milk? The molecular biology of tsetse lactation”
- 2011: **Invited Speaker**, Wellcome Trust Conference Centre, Bringing Together the Tsetse Genome, Hinxton, UK. “Analysis of the Fat Body Transcriptome from the Tsetse Fly (*Glossina morsitans morsitans*)” and “Genomic Annotation of Genes Associated with Reproduction and Development”
- 2011: **Invited speaker**, Liverpool School of Tropical Medicine, Liverpool, UK. “Got Milk? The Molecular Biology of Tsetse Fly Lactation.”
- 2011: **Invited speaker**, New Mexico State University, Department of Biology, (Las Cruces, New Mexico). “Tsetse Reproduction: Physiology and Molecular Biology Viviparous Reproduction in the Tsetse Fly”

- 2010: **Invited Speaker**, Cornell University: “Tsetse Reproduction: Molecular Biology of Viviparous Reproduction and its Potential Exploitation for Population Control”.
- 2007: **Invited Speaker**, Entomological Society of America, Annual Meeting (San Diego, CA). Symposium: Frontiers in Vector Molecular Physiology, “The genetics of viviparity: Molecular characterization of tsetse fly reproductive processes”
- 2006: **Invited Speaker**, South African National Bioinformatics Institute Training Course on Bioinformatics and Functional Genomics Applied to Tsetse Fly: “Functional Genomic Analysis of Reproduction in Tsetse”
- 2005: **Invited Speaker**, Society of Tropical Medicine and Hygiene 54<sup>th</sup> Annual Meeting: “Analysis of the Fat Body Transcriptome from the Tsetse Fly (*Glossina morsitans morsitans*)”
- 2002: **Invited Speaker**, University of California Riverside, Entomology Department – The Role of GATA Factors in the Regulation of Vitellogenesis”
- 2002: **Invited speaker**, University of Delaware, Entomology Department –: “Got Blood? Molecular Regulation of Egg Development in *Aedes aegypti* and Its Application in Control of Disease Transmission and Innate Immunity”
- 2002: **Invited speaker**, Center for Insect Science University of Arizona – Fourth International Symposium on Molecular Insect Science: “RNAi-mediated knockout of a GATA-repressor type transcription factor in *Aedes aegypti*”

**Peer-Reviewed Presentations & Symposia:**

- 2016: **Speaker**, International Congress of Entomology (Orlando FL). “Obligate symbiont-generated vitamin B6 is critical to maintain proline homeostasis and fecundity in the tsetse fly (*Glossina morsitans*)”
- 2014: **Speaker**, Entomological Society of America, Annual Meeting (Portland, OR). “The Composition and Regulation of Milk Proteins Associated with Tsetse Fly Lactation”
- 2014: **Symposium Co-Organizer**, Entomological Society of America, Annual Meeting (Portland, OR). “Underlying Aspects of Insect Reproduction: What We Know and What Needs to be Done”
- 2013: **Speaker**, Entomological Society of America, Annual Meeting (Austin, TX). “Nuptial Gifts: Identification of male seminal proteins in the tsetse fly *Glossina morsitans*.”
- 2013: **Speaker**, New England Association of Parasitology, Annual Meeting (New Haven, CT). “Novel Discoveries in the Male Accessory Secretions of the Tsetse fly (A transcriptomic/proteomic analysis)”
- 2013: **Poster**, 7th Annual Arthropod Genomics Symposium, Eck Institute for Global Health at the University of Notre Dame (Notre Dame, IN). “Novel Discoveries in the Male Accessory Secretions of the Tsetse fly (A transcriptomic/proteomic analysis)”
- 2012: **Symposium Co-Organizer**, Entomological Society of America, Annual Meeting (Knoxville, TN). “Biology of the Insect Fat Body”

- 2012: **Speaker**, Entomological Society of America, Annual Meeting (Knoxville, TN). “Annotation and Functional Genomics of the Tsetse Fly (*Glossina morsitans morsitans*) Genome”
- 2011: **Poster**, Sixth International Symposium on Molecular Insect Science, Amsterdam, The Netherlands. “Analysis of the promoter and regulatory region of the tsetse fly (*Glossina morsitans morsitans*) milk gland protein gene (*gmmmgp*): The search for mechanisms regulating milk gland and pregnancy specific gene expression.”
- 2010: **Speaker**, New England Association of Parasitology (Amherst, MA). “Analysis of the promoter and regulatory region of the tsetse fly (*Glossina morsitans morsitans*) milk gland protein gene (*gmmmgp*): The search for mechanisms regulating milk gland and pregnancy specific gene expression”
- 2010: **Speaker**, American Society of Tropical Medicine and Hygiene 59<sup>th</sup> Annual Meeting (Atlanta, GA). “Analysis of the promoter and regulatory region of the tsetse fly (*Glossina morsitans morsitans*) milk gland protein gene (*gmmmgp*): The search for mechanisms regulating milk gland and pregnancy specific gene expression”
- 2010: **Poster**, UCR Center for Disease Vector Research Symposium: Social and Economic Impact of Vector-Borne Diseases (Riverside California)- Poster Presentation: “Regulation of *Glossina morsitans morsitans* Milk Gland Protein gene (*gmmmgp*) expression and *in silico* analysis of the associated Transcription Factors”
- 2009: **Speaker**, American Society of Tropical Medicine and Hygiene 58<sup>th</sup> Annual Meeting, “Exploiting Tsetse’s Viviparous Reproductive Physiology for Population Control”
- 2007: **Speaker**, New England Association of Parasitologists Meeting / Boston Vector Pathogen Encounter: “Exploring the boundaries of tsetse molecular biology”
- 2004: **Poster**, Keystone Symposia - Genetic Manipulation of Insects: “The Role of Amino Acids in Regulation of the Vitellogenin Gene in the Mosquito *Aedes aegypti*”
- 2003: **Speaker**, American Society of Tropical Medicine and Hygiene 52<sup>nd</sup> Annual Meeting and Centennial Celebration – Philadelphia, Pennsylvania: “RNAi-Mediated Knockdown of a GATA Factor Reveals a Link to Anautogeny in the Mosquito *Aedes aegypti*”
- 2002: **Speaker**, California Mosquito Workgroup – Palm Springs CA: “Raikhel Lab Research Overview”
- 2002: **Speaker**, University of California Riverside Genetics Program Student/Faculty Retreat – UCLA Conference Center, Lake Arrowhead CA: “GATA Factor Mediated Regulation of Yolk Protein Precursor Genes in *Aedes aegypti*”
- 2001: **Poster**, Keystone Symposia - Genetic Manipulation of Insects: “GATA-Specific Regulation of Vitellogenin Gene Expression in the Mosquito *Aedes aegypti*”

**Teaching:**

- Spring 2016: **Workshop Co-Organizer/Instructor:** The Characterization of Symbionts of tsetse flies via Bioinformatic Approaches. Institut National Des Sciences Appliquées (INSA), Lyon, France
- Spring 2015: **Guest Lecturer:** Yale School of Public Health: Epidemiology of Microbial Diseases 550/682A: Insect Sciences: Biotech Applied to Disease Control. Lecture: "Insect Transgenesis: Techniques, Uses and Implications for Insect Vector Control."
- Spring 2015: **Workshop Organizer:** From Genomes to Functions: Analyzing the Glossina genome cluster. Biotechnology Research Institute-Kenya Agricultural and Livestock Research Organisation (BRI-KALRO), Muguga, Kenya
- Spring 2011-: **Organizer:** Yale School of Public Health: Epidemiology of Microbial Diseases Research Forum
- Spring 2011: **Guest Lecturer:** Yale School of Public Health: Epidemiology of Microbial Diseases 550/682A: Insect Sciences: Biotech Applied to Disease Control. Lecture: "Reproductive Physiology of Insect Disease Vectors"
- Spring 2010: **Guest Lecturer:** Yale School of Public Health: Epidemiology of Microbial Diseases 550/682A: Insect Sciences: Biotech Applied to Disease Control. Lecture: "Reproductive Physiology of Insect Disease Vectors"
- Fall 2008: **Guest Lecturer:** Yale School of Public Health: Epidemiology of Microbial Diseases 550/682A: Insect Sciences: Biotech Applied to Disease Control. Lecture: Insect Physiology: Reproduction and Transgenesis
- Summer 2007: **Instructor:** South African National Bioinformatics Institute Tsetse Fly Annotation Workshop. Lecture: Tsetse fly reproductive physiology and transcriptome annotation.
- Fall 2006-2008: **Organizer:** EMD682a: Advanced Topics in Vector Biology
- Fall 2000: **Teaching Assistant:** Biology 341- General Genetics Michigan State University Dr. Barbara Sears and Dr. James Hancock
- Spring 2001: **Teaching Assistant:** Entomology 850- Insect Physiology Michigan State University Dr. Alexander Raikhel, Dr. James Miller and Dr. Zachary Huang

### Professional Service:

#### Editorial

- September 2016- Co-Editor for Special Edition of Current Opinion in Insect Science "Vectors and medical and veterinary entomology: Becoming vectors or victims, the intriguing interplay between insects and viruses"
- June 2016-2019: Editorial Board Member of Insect Molecular Biology

#### Journal Service as Reviewer

- 2006-Present: Reviewer for *Insect Biochemistry and Molecular Biology*, *Insect Molecular Biology*, *Journal of Insect Physiology*, *PLoS ONE*, *PLoS Neglected Tropical*

*Diseases, International Journal of Tropical Insect Science, World Journal of Microbiology, Chemosphere, General and Comparative Endocrinology, Nature Scientific Reports,*

Professional Service for Professional Organizations

- 2016- Present: Entomological Society of America: Chair of the Eastern Branch Award Nomination Committee
- 2014: Entomological Society of America: Eastern Branch Award Nomination Committee.

**Bibliography:**

Peer-Reviewed Manuscripts (In Chronological Order)

Benoit JB, Adelman ZN, Reinhardt K, Dolan A, Poelchau M, Jennings EC, Szuter EM, Hagan RW, Gujar H, Shukla JN, Zhu F, Mohan M, Nelson DR, Rosendale AJ, Derst C, Resnik V, Wernig S, Menegazzi P, Wegener C, Peschel N, Hendershot JM, Blenau W, Predel R, Johnston PR, Ioannidis P, Waterhouse RM, Nauen R, Schorn C, Ott MC, Maiwald F, Johnston JS, Gondhalekar AD, Scharf ME, Peterson BF, Raje KR, Hottel BA, Armisen D, Crumiere AJ, Refki PN, Santos ME, Sghaier E, Viala S, Khila A, Ahn SJ, Childers C, Lee CY, Lin H, Hughes DS, Duncan EJ, Murali SC, Qu J, Dugan S, Lee SL, Chao H, Dinh H, Han Y, Doddapaneni H, Worley KC, Muzny DM, Wheeler D, Panfilio KA, Vargas Jentsch IM, Vargo EL, Booth W, Friedrich M, Weirauch MT, Anderson MA, Jones JW, Mittapalli O, Zhao C, Zhou JJ, Evans JD, **Attardo GM**, Robertson HM, Zdobnov EM, Ribeiro JM, Gibbs RA, Werren JH, Palli SR, Schal C, Richards S. (2016). Unique features of a global human ectoparasite identified through sequencing of the bed bug genome. *Nature communications*. 2016;7:10165. PubMed PMID: 26836814; PMCID: PMC4740739.

Scolari F., Benoit J.B., Michalkova V., Aksoy E., Takac P., Abd-Alla A.M., Malacrida A.R., Aksoy S., **Attardo G.M.** (2016). The Spermatophore in *Glossina morsitans morsitans*: Insights into Male Contributions to Reproduction. *Scientific reports*. 2016;6:20334. PubMed PMID: 26847001.

Mwangi S., **Attardo G.**, Suzuki Y., Aksoy S., Christoffels A. (2015). TSS seq based core promoter architecture in blood feeding Tsetse fly (*Glossina morsitans morsitans*) vector of Trypanosomiasis. *BMC Genomics*. 16(1):722. PubMed PMID: 26394619; PMCID: PMC4578606.

Michalkova, V., Benoit, J. B., Weiss, B. L., **Attardo, G. M.** and Aksoy, S. 2014. Obligate symbiont-generated vitamin B6 is critical to maintain proline homeostasis and fecundity in tsetse flies. *Appl Environ Microbiol* Epub Date: 2014/07/20, ISSN: 0099-2240, PMID: 25038091

International Glossina Genome Initiative (**Lead Author: Attardo, G.M.**). 2014. Genome sequence of the tsetse fly (*Glossina morsitans*): vector of African trypanosomiasis. *Science* 344(6182):380-6. PMID: 24763584

Benoit, J.B., Hansen, I.A., **Attardo, G.M.**, Michalkova, V., Mireji, P.O., Bargul, J.L., Drake, L.L., Masiga D.K., Aksoy, S. 2014. Aquaporins Are Critical for Provision of Water during Lactation and Intrauterine Progeny Hydration to Maintain Tsetse Fly Reproductive Success. *PLoS Negl Trop Dis* 8(4): e2517. PMCID: PMC3998938

Benoit, J.B., **Attardo, G.M.**, Michalkova, V., Krause, T.B., Bohova, J., Zhang, Q., Baumann, A.A., Mireji, P.O., Takáč P., Denlinger D.L., Ribeiro, J.M., Aksoy, S. 2014. A Novel Highly Divergent Protein Family Identified from a Viviparous Insect by RNA-seq Analysis: A Potential

Target for Tsetse Fly-Specific Abortifacients. *PLoS Genet* 10(4): e1003874. PMID: PMC3998918

**Attardo, G.M.**, Benoit, J.B., Michalkova, V., Patrick, K.R., Krause, T.B., Aksoy, S. 2014. The Homeodomain Protein Ladybird Late Regulates Synthesis of Milk Proteins during Pregnancy in the Tsetse Fly (*Glossina morsitans*). *PLoS Negl Trop Dis* 8(4): e2645. PMID: PMC3998940

Aksoy, S., **Attardo, G.**, Berriman, M., Christoffels, A., Lehane, M., Masiga, D., Toure, Y. 2014. Human african trypanosomiasis research gets a boost: unraveling the tsetse genome. *PLoS Negl Trop Dis* 8(4): e2624. PMID: PMC3998789

Michalkova, V., Benoit, J.B., **Attardo, G.M.**, Medlock, J., Aksoy, S. 2014. Amelioration of reproduction-associated oxidative stress in a viviparous insect is critical to prevent reproductive senescence. *PLoS One* 9(4):e87554. PMID: PMC3998933

Benoit JB, **Attardo GM**. Mechanisms that contribute to the establishment and persistence of bed bug infestations. *Terrestrial Arthropod Reviews*. 2013;6(3):227-46. doi: doi:https://doi.org/10.1163/18749836-06001067.

Baumann, A.A., Benoit, J.B., Michalkova, V., Mireji, P.O., **Attardo, G.M.**, Moulton, J.K., Wilson, T.G., Aksoy, S. 2013. Juvenile hormone and insulin suppress lipolysis between periods of lactation during tsetse fly pregnancy. *Mol Cell Endocrinol* 372(1-2):30-41. PMID: 23499946

**Attardo, G.M.**, Benoit, J.B., Michalkova, V., Yang, G., Roller, L., Bohova, J., Takáč, P., Aksoy, S. 2012. Analysis of lipolysis underlying lactation in the tsetse fly, *Glossina morsitans*. *Insect Biochemistry and Molecular Biology*. 42(5):360-70. PMID: PMC3561780

Benoit J.B., **Attardo G.M.**, Michalkova V., Takac P., Bohova J., 2012. Aksoy S. Sphingomyelinase Activity in Mother's Milk Is Essential for Juvenile Development: A Case from Lactating Tsetse Flies. *Biol Reprod*. 87(1):17. PMID: PMC3406556

Benoit J.B., Yang G., Krause T.B., Patrick K.R., Aksoy S., **Attardo, G.M.**, 2011. Lipophorin acts as a shuttle of lipids to the milk gland during tsetse fly pregnancy. *J Insect Physiol*. 57, (11), 1553-1561. PMID: 3209505.

Bonomi, A., Bassetti, F., Gabrieli, P., Beadell, J., Falchetto, M., Scolari, F., Gomulski, L.M., Regazzini, E., Ouma, J.O., Caccone, A., Okedi, L.M., **Attardo, G.M.**, Guglielmino, C.R., Aksoy, S., Malacrida, A.R., 2011. Polyandry is a common event in wild populations of the Tsetse fly *Glossina fuscipes fuscipes* and may impact population reduction measures. *PLoS Neglected Tropical Diseases* 5, e1190. PMID: 3110164

Hansen, I.A., Boudko, D.Y., Shiao, S.H., Voronov, D.A., Meleshkevitch, E.A., Drake, L.L., Aguirre, S.E., Fox, J.M., **Attardo, G.M.**, Raikhel, A.S., 2011. AaCAT1 of the yellow fever mosquito, *Aedes aegypti*: a novel histidine-specific amino acid transporter from the SLC7 family. *Journal of Biological Chemistry* 286, 10803-10813. PMID: 3060531

**Attardo, G.M.**, Ribeiro, J.M.C., Wu, Y, Berriman, M., Aksoy, S., 2010. Transcriptome analysis of reproductive tissue and intrauterine developmental stages of the tsetse fly (*Glossina morsitans morsitans*). *BMC Genomics* 11(1), 160. PMID: 2846916

Alves-Silva, J., Ribeiro, J.M., Van Den Abbeele, J., **Attardo, G.**, Hao, Z., Haines, L.R., Soares, M.B., Berriman, M., Aksoy, S. and Lehane, M.J., 2010. An insight into the sialome of *Glossina morsitans morsitans*. *BMC Genomics* 11, 213. PMID: 2853526

Yang, G., **Attardo, G.M.**, Lohs, C., and Aksoy, S., 2010. Molecular characterization of two novel milk proteins in the tsetse fly (*Glossina morsitans morsitans*). *Insect Mol. Biol.* 19(2), 253-262. PMID: 2862765

**Attardo, G.M.**, Lohs, C., Heddi, A., Alam, U.H., Yildirim, S. and Aksoy, S., 2008. Analysis of milk gland structure and function in *Glossina morsitans*: Milk protein production, symbiont populations and fecundity. *J Insect Physiol* 54, 1236-42. PMID: 2613686

Hu, C., Rio, R. V. M., Medlock, J., Haines, L. R., Nayduch, D., Savage, A. F., Guz, N., **Attardo, G. M.**, Pearson, T. W., Galvani, A. P., and Aksoy, S., 2008. Infections with immunogenic trypanosomes reduce tsetse reproductive fitness: Potential impact of different parasite strains on vector population structure. *PLoS Negl Trop Dis.* 2(3), e192. PMID: 2265429

Guz, N., **Attardo, G.M.**, Wu, Y., and Aksoy, S., 2007. Molecular aspects of transferrin expression in the tsetse fly (*Glossina morsitans morsitans*). *J.Insect Physiol* 53, 715-723. PMID: 2065764

Strickler-Dinglasan, P.M., Guz, N., **Attardo, G.M.**, and Aksoy, S., 2006. Molecular characterization of iron binding proteins from *Glossina morsitans morsitans* (Diptera: Glossinidae). *Insect Biochem.Mol.Biol.* 36, 921-933. PMID: 1698469

**Attardo, G.M.**, Strickler-Dinglasan, P., Perkin, S.A., Caler, E., Bonaldo, M.F., Soares, M.B., El-Sayeed, N., and Aksoy, S., 2006. Analysis of fat body transcriptome from the adult tsetse fly, *Glossina morsitans morsitans*. *Insect Mol.Biol.* 15, 411-424. PMID: 16907828.

**Attardo, G.M.**, Hansen, I.A., Shiao, S.H., and Raikhel, A.S., 2006. Identification of two cationic amino acid transporters required for nutritional signaling during mosquito reproduction. *J.Exp.Biol.* 209, 3071-3078. PMID:16888056

Park, J.H., **Attardo, G.M.**, Hansen, I.A., and Raikhel, A.S., 2006. GATA factor translation is the final downstream step in the amino acid/target-of-rapamycin-mediated vitellogenin gene expression in the anautogenous mosquito *Aedes aegypti*. *J.Biol.Chem.* 281, 11167-11176. PMID:16490782

**Attardo, G.M.**, Guz, N., Strickler-Dinglasan, P., and Aksoy, S., 2006. Molecular aspects of viviparous reproductive biology of the tsetse fly (*Glossina morsitans morsitans*): regulation of yolk and milk gland protein synthesis. *J.Insect Physiol* 52, 1128-1136. PMID: 1779500

**Attardo, G.M.**, Hansen, I.A., and Raikhel, A.S., 2005. Nutritional regulation of vitellogenesis in mosquitoes: implications for anautogeny. *Insect Biochem.Mol.Biol.* 35, 661-675. PMID:15894184

Hansen, I.A., **Attardo, G.M.**, Roy, S.G., and Raikhel, A.S., 2005. Target of rapamycin-dependent activation of S6 kinase is a central step in the transduction of nutritional signals during egg development in a mosquito. *J.Biol.Chem.* 280, 20565-20572. PMID: 15788394.

Hansen, I.A., **Attardo, G.M.**, Park, J.H., Peng, Q., and Raikhel, A.S., 2004. Target of rapamycin-mediated amino acid signaling in mosquito anautogeny. *Proc.Natl.Acad.Sci.U.S.A* 101, 10626-10631. PMID: PMC489984

**Attardo, G.M.**, Higgs, S., Klingler, K.A., Vanlandingham, D.L., and Raikhel, A.S., 2003. RNA interference-mediated knockdown of a GATA factor reveals a link to anautogeny in the mosquito *Aedes aegypti*. *Proc.Natl.Acad.Sci.U.S.A* 100, 13374-13379. PMID: PMC263821

Costero, A., **Attardo, G.M.**, Scott, T.W., and Edman, J.D., 1998. An experimental study on the detection of fructose in *Aedes aegypti*. *J.Am.Mosq.Control Assoc.* 14, 234-242. PMID: 9813818.

### **Reviews, Chapters, Books**

Rio RV, **Attardo GM**, Weiss BL. Grandeur Alliances: Symbiont Metabolic Integration and Obligate Arthropod Hematophagy. *Trends Parasitol.* 2016. doi: 10.1016/j.pt.2016.05.002. PubMed PMID: 27236581.



- Shaw WR, **Attardo GM**, Aksoy S, Catteruccia F. (2015) A comparative analysis of reproductive biology of insect vectors of human disease. *Current Opinion in Insect Science*. 10(0):142-8. doi: <http://dx.doi.org/10.1016/j.cois.2015.05.001>. PMID: 26140265 PMCID: PMC4484812
- Benoit J.B., **Attardo G.M.**, Baumann A.A., Michalkova V., Aksoy S. (2015). Adenotrophic Viviparity in Tsetse Flies: Potentials for Population Control and as an Insect Model of Lactation. *Annu. Rev. Entomol.* 60:351-71. doi: 10.1146. PubMed PMID: 25341093.
- Aksoy S., Weiss, B.L., **Attardo, G.M.** (2014) Trypanosome transmission dynamics in tsetse, *Curr. Opin. Insect Sci.*, Available online 5 August 2014, ISSN 2214-5745, DOI:10.1016/j.cois.2014.07.003.
- Benoit, J. B., Hansen, I. A., Szuter, E. M., Drake, L. L., Burnett, D. L. and **Attardo, G. M.** (2014) Emerging roles of aquaporins in relation to the physiology of blood-feeding arthropods. *J Comp Physiol B*: June 19, 2014. PMID: 24942313. DOI:10.1007/s00360-014-0836-x
- Hansen IA, **Attardo GM**, Rodriguez SD, Drake LL (2014) Four-way regulation of mosquito yolk protein precursor genes by juvenile hormone-, ecdysone-, nutrient-, and insulin-like peptide signaling pathways. *Front Physiol* 5: 103. PMCID: PMC3960487
- Weiss, B.L., **Attardo, G.M.**, and Aksoy, S. 2009. Insect-Protozoa-Bacteria Associations: a Model System for Investigating Host-Parasite Interactions. In: *Molecular Approaches and Techniques in Insect Pathology*, eds. Stock, P., Boemare, N., Glazer, I., Vanderberg, J., CABI publishing, Cambridge, MA.
- Aksoy S, Brian, W and **Attardo, G.M.**, 2008. Paratransgenesis applied for control of tsetse transmitted Sleeping Sickness". *Adv. Exp. Med. Biol.* 627, 35-48.
- Weiss, B.L., **Attardo, G.M.**, Pais, R., Wang, J., and Aksoy, S. 2007. Novel strategies targeting pathogen transmission reduction in insect vectors: Tsetse-transmitted trypanosomiasis control (invited review). *Entomological Research* 37: 231-237
- Martin, D., **Attardo, G.M.**, Hansen, I.A., and Raikhel, A.S. Molecular Mechanisms of Tissue-Specific Gene Expression In Insects. In: *Reproductive Biology of Invertebrates Vol. XII, Part B. Recent Progress in Vitellogenesis*, A. Raikhel, (Ed.) John Wiley & Sons Ltd, West Sussex UK
- Raikhel, A.S., Kokoza, V.A., Zhu, J., Martin, D., Wang, S.F., Li, C., Sun, G., Ahmed, A., Dittmer, N., and **Attardo, G.M.**, 2002. Molecular biology of mosquito vitellogenesis: from basic studies to genetic engineering of antipathogen immunity. *Insect Biochem.Mol.Biol.* 32, 1275-1286. PMID: 12225918.