

## **Elliot Scoville Krafsur**

Professor Emeritus of Entomology and Genetics  
Department of Entomology, Iowa State University  
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DOB 15 May 1939  
Married, one child

### **Education**

University of Maryland, College Park, B.S., Entomology & Botany, 1961  
M.S. Entomology & Chemistry, 1963.  
USPHS/NIH Graduate college, 1964-1967 – math, chemistry, German  
University of London, Ph.D., Zoology, 1972

### **Employment**

1964 – 1967 Insect Physiologist, U.S. Army Biological Laboratories, Ft. Detrick.  
1967 – 1969 Medical Entomologist/Parasitologist, U.S. Naval Medical Research Unit,  
Ethiopia. Malaria epidemiology  
1969 – 1972 U.S. National Science Foundation Fellow, London School of Hygiene and  
Tropical Medicine, University of London. *Anopheles* mosquito  
cytogenetics.  
1972 – 1973 Wellcome Trust Research Fellow, Department of Zoology, Oxford  
University. Epidemiology of Bancroftian filariasis in Tanzania  
1974 – 1976 Research Entomologist, USDA. Screwworm eradication program in  
Mexico and Texas.  
1976 – 2002 Assistant/Associate/Professor, Department of Entomology, Iowa State  
University. Insect genetics; demography; medical/veterinary entomology.  
2002 - 2007 Professor Emeritus and Affiliate Professor of Entomology and Genetics,  
Iowa State University.

### **Current and Recent Professional Affiliations**

American Association for the Advancement of Science  
American Genetic Association  
Fellow, Royal Entomological Society  
Society for the Study of Evolution  
Genetics Society of America  
American Society of Tropical Medicine & Hygiene  
Leverhulme Trust Tsetse Research Network

### **Service**

U.S. Naval Reserve, 1964-84 (Ensign to Lieutenant Commander)  
Editorial board, *Review of Medical and Veterinary Entomology*, 1988 – 2007  
National Center for Research Resources, NIH, 2004-2005. Special emphasis review panels  
NIH Tropical Medicine & Parasitology Study Section, 1992-2002  
NIH Fogarty Global Infectious Diseases Program Study Section, 2006  
NIH Special Emphasis Panels, 2005, 2006, 2007  
NIH Roadmap Research Centers Study Sections, 2006-2007  
Research proposal reviews for Wellcome Trust (U.K.), Biotechnology and Biological Research Council (U.K.), Environment Research Council (U.K.), World Health Organization Committee on Molecular Entomology, U.S. National Science Foundation, Agence Nationale de la Recherche (France)  
International Review Panel, California Medfly Eradication Program 1993-95  
Interdepartmental Genetics Faculty  
International Review Panel, Florida Medfly Eradication Program 1998  
External Reviewer of Entomology Division, International Atomic Energy Agency, Vienna, Austria, 1999  
S-274 Regional research committee on integrated management of arthropod pests  
S-1005 Regional research committee, 1999-2004  
Manuscript reviews for the editors of *Nature (London)*, *Acta Tropica*, *Annals of the Entomological Society of America*, *Biochemical Genetics*, *Biological Reviews*, *Biol. J. Linnaean Society*, *BioMed Central Genomics*, *Canadian Entomologist*, *Canadian J. Zoology*, *Ecological Entomology*, *Ecography*, *Environmental Entomology*, *Genetica*, *Insect Biochemistry and Molecular Biology*, *Journal of Applied Entomology*, *Journal of Heredity*, *Mathematical Biosciences*, *Medical and Veterinary Entomology*, *Journal of Medical Entomology*, *Molecular Ecology*, *Journal of Economic Entomology*, *Journal of Vector Ecology*, *Tropical Disease Bulletin*, *Parasites and Vectors*, *PLoS Neglected Tropical Diseases*, *Popular Science* magazine, *Turkish Journal of Biology*, .....

## **Consultantships**

Agence Nationale de la Recherche (National Research Agency of France).  
National Institutes of Health, U.S. Public Health Service  
National Center for Research Resources, NIH, USPHS  
U.S. Office of Technology Assessment  
Commonwealth Scientific and Industrial Research Organization, Australia  
UN Food and Agriculture Organization  
International Atomic Energy Agency  
California Medfly Eradication Program  
Florida Medfly Eradication Program  
Joint US-Mexico Screwworm Eradication Program  
Animal Plant Health Inspection Service, U.S. Department of Agriculture  
International Laboratory for Research on Animal Diseases (Nairobi, Kenya)

### **External examiner for promotion to Professor**

Professor Harry Townson, Director, Liverpool School Tropical Medicine, Liverpool, U.K.  
Professor Roger Moon, Entomology, University of Minnesota  
Professor Srimi Kambhampati, Entomology, Kansas State University  
Professor Serap Aksoy, Head, Division of Epidemiology and Microbial Diseases, Yale  
School of Public Health  
Professor Stephan Dobson, Entomology, University of Kentucky

### **External examiner for the PhD degree**

Dr. Lizette Koekemoer, Faculty of Science, University of Witwatersrand, South Africa  
Dr. Messay Gebremariam, Faculty of Science, University of Witwatersrand

### **Courses taught**

General entomology (3 semester hours)  
Arthropod morphology and evolution (4)  
Aquatic insects (4)  
Insect genetics (3)  
Special problems in entomology (1-3)  
Guest lectures in: Economic entomology (genetic methods of pest control)  
Guest lectures in: Toxicology (genetics of insecticide resistance)  
Department graduate seminar series

### **Major academic advisor**

Pre-med, pre-dental, pre-veterinary undergraduate students  
Undergraduate entomology majors  
Seven MS degree students  
Four PhD degree students  
Four post-doctoral research associates.

### **Grants and contracts**

Pinkeye in cattle: Model for bovine keratoconjunctivitis, 1989-1991. State of Iowa  
biotechnology grant, \$150,000.

Genic diversity and reproductive performance in natural and exotic populations of  
*Coccinella septempunctata*. USDA APHIS Cooperative Agreement; Biological  
Control Lab at Niles, MI. 1991-93. \$75,000. J.J. Obrycki and E.S. Krawfur.

Coccinellid introductions: Ecological genetics and reproductive biology. USDA/NRI. 1994-97. \$180,000. J.J. Obrycki and E.S. Krafur

Population genetics of tsetse flies. NIH-USPHS. AI-40048 1998-2000. \$221,830. E.S. Krafur

Population genetics of *Glossina pallidipes* in East Africa. International Atomic Energy Agency. \$40,000. E.S. Krafur

Population genetics of *Glossina palpalis gambiensis*. International Atomic Energy Agency. \$10,000. E.S. Krafur

Ecology, genetics, and physiology of insect vectors. NIH AI-52456. 2002-2007. \$1,300,000. E. S. Krafur

Genetics and population dynamics of screwworm (*Cochliomyia hominivorax*) populations. USDA ARS Cooperative Research Agreement, \$50,000.

Regional research grants totaling \$150,000 from 1992 to 2002.

### **Regional Research Projects**

S-274, *Integrated management of arthropod pests of livestock and poultry*, 1991-2001.  
S-1005, *Sources, dispersal and management of stable flies on grazing beef and dairy cattle*, 2002-2005

### **Invited, peer-reviewed publications**

- Krafur, E.S. 1970. *Anopheles nili* as a malaria vector in a lowland region of Ethiopia. *Bulletin of the World Health Organization* 42: 466-471.
- Krafur, E.S., Townson, H., Davidson, G. & Curtis, C.F. 1986. Screwworm eradication is what it seems. *Nature (London)* 323: 495-496.
- Krafur, E.S., Black, W.C., Bryan, M.F., Curtis, C.F., Davidson, G. & Townson, H. 1987. Screwworm eradication and climate. *Nature (London)* 328: 767-768.
- Krafur, E.S, Whitten, C.J. & Novy, J.E. 1987. Screwworm eradication in North and Central America. *Parasitology Today* 2: 131-137.
- Krafur, E.S. 1994. Application of models to screwworm eradication programs. pp 299-308. In B. Perry & J. Hansen (Eds), *Modelling vector-borne and other parasitic diseases. Proc. Workshop ILRAD/FAO*. Nairobi, 1992.
- Krafur, E.S. & Moon, R.D. 1997. Bionomics of face flies. *Annual Review of Entomology* 42: 503-523.
- Krafur, E.S. 1998. Sterile insect technique for suppressing and eradicating insect populations: 55 years and counting. *Journal of Agricultural Entomology* 15: 303-317.
- Krafur, E.S. 2001. Population genetics of some morsitans group tsetse flies (Diptera):

- Glossinidae), p 220-225. Proceedings 25<sup>th</sup> ISCTRC Conference, Mombasa, Kenya (September 1999).
- Krafsur, E.S. 2002. The sterile insect technique, pp 788-791. *In* D. Pimentel [Ed], *Dekker Encyclopedia of Pest Management*.
- Krafsur, E.S. 2003. Tsetse fly population genetics: an indirect approach to dispersal. *Trends in Parasitol.* 19: 162-166.
- Krafsur, E.S. 2003. Genetic diversity and gene flow in *morsitans* group tsetse flies. *Tsetse and Trypanosomiasis Quarterly* 25: 141-146.
- Gooding, R.H. & Krafsur, E.S. 2004 Tsetse genetics: applications to biology and systematics. *In* I. Maudlin, P.H. Homes & M.A. Miles [Eds]. CAB International pp 95-111.
- Krafsur, E.S. 2005. The role of population genetics in the sterile insect technique, pp 389-406. *In* A.V. Dyck, J. Hendrichs, A.S. Robinson [eds], *The sterile insect technique. Principles and practice in area wide integrated pest management*.
- Gooding, R.H. & Krafsur, E.S. 2005. Tsetse genetics. *Annual Review of Entomology* 50: 101-123.
- Krafsur, E.S., Obrycki, J.J., Harwood, J.D. 2005. Comparative genetic studies of endemic and exotic Coccinellidae in North America. *European Journal of Entomology* 102: 469-474.
- Krafsur, E.S. 2008. Screwworms. *In*: J. Capinera (ed), *Encyclopedia of Entomology*, 2<sup>nd</sup> ed. Kluwer Academic Publishers.
- Krafsur, E.S. 2008. Face flies. *In*: J. Capinera (ed), *Encyclopedia of Entomology*, 2<sup>nd</sup> ed. Kluwer Academic Publishers.
- Krafsur, E.S. 2009. Tsetse flies: genetics, evolution, and role as vectors. *Infection, genetics and evolution* 9: 124-141.
- Krafsur, E.S., with Dorn, P.L., Noireau, F., Lanzaro, G.C. and A.J. Corne. 2011. Genetics of major insect vectors. *In* *Genetics and evolution of infectious diseases*, Ed. M. Tibayrenc. Elsevier

### Publications 1995

- Krafsur, E.S. 1995. Analysis of gene flow in North American face fly (*Musca autumnalis*) populations. *Medical and Veterinary Entomology* 9: 229 - 234,
- Kim, Y. & Krafsur, E.S. 1995. In vivo and in vitro effects of 20-hydroxyecdysone and methoprene on reproductive development in diapausing *Musca autumnalis*. *Physiological Entomology* 20: 52-58.
- Krafsur, E., Obrycki, J. & Schaefer, P. 1995. Genetic heterozygosity and gene flow in *Coleomegilla maculata* De Geer (Coleoptera: Coccinellidae). *Biological Control* 5: 104 - 111.
- Krafsur, E., Vos, J.D., Nariboli, P. & Marquez, G. 1995. Gene diversity at allozyme loci in the cottonwood leaf beetle, *Chrysomela scripta*. *Biochemical Genetics*. 33: 83 - 89.
- Moon, R.D. & Krafsur, E.S. 1995. Pterin quantity and gonotrophic stage as indicators of age in adult face flies, *Musca autumnalis* De Geer. *Journal of Medical Entomology* 32:673-684.

- Krafsur, E.S., Moon, R.D. & Kim, Y. 1995. Age structure and reproductive composition of summer *Musca autumnalis* DeGeer (Diptera: Muscidae) populations estimated by pterin concentrations. *Journal of Medical Entomology* 32: 685-676.
- Krafsur, E.S. & Nariboli, P. 1995. Elm leaf beetles have greatly reduced levels of gene diversity. *Biochemical Genetics* 33: 91 - 95.
- Phoofolo, M.W., Obrycki, J.J. & Krafsur, E.S. 1995. Temperature-dependent ovarian development in *Coccinella septempunctata* (Coleoptera: Coccinellidae). *Annals of the Entomological Society of America* 88: 72-79.
- Krafsur, E.S. 1995. Gene flow between univoltine and semivoltine northern corn rootworm (Coleoptera: Chrysomelidae) populations. *Annals of the Entomological Society of America* 88: 699-704.
- Kim, Y., Krafsur, E.S., Bailey, T.B. & Zhao, S. 1995. Mode of inheritance of face fly diapause and its correlation with other developmental traits. *Ecological Entomology* 20: 359-366.

### 1996

- Krafsur, E.S. & J.J. Obrycki. 1996. Gene flow in the exotic 14-spotted ladybird beetle, *Propylea quatuordecimpunctata*. *Genome* 39: 131-139.
- Krafsur, E.S., Nariboli, P. & Obrycki, J.J. 1996. Gene flow in colonizing *Hippodamia variegata* ladybird beetle populations. *Journal of Heredity* 87: 41-47.
- Krafsur, E.S., Nariboli, P. & Obrycki, J.J. 1996. Gene flow and diversity at allozyme loci in the two-spotted ladybird, *Adalia bipunctata*. *Annals of the Entomological Society of America* 89: 410-419.
- Krafsur, E.S. 1996. Are the Oncychophora really arthropods? *Antenna* 20: 62-65.
- Krafsur, E.S. & Lindquist, D.A. 1996. A phenological analysis of screwworm eradication in Libya. *Journal of Medical Entomology* 33: 877-887.

### 1997

- Krafsur, E.S., Griffiths, N., Brockhouse, C.L. & Brady, J. 1997. Breeding structure of *Glossina pallidipes* populations in East and southern Africa. *Bulletin of Entomological Research* 87: 67-73.
- Krafsur, E.S., Kring, T.J., Miller, J.C., Nariboli, P., Obrycki, J.J., Ruberson, J.R. & Schaefer, P.W. 1997. Gene flow in the exotic North American ladybird *Harmonia axyridis*. *Biological Control* 8: 207-214.
- Krafsur, E.S. & Griffiths, N. 1997. Genetic variation at structural loci in the *Glossina morsitans* species group. *Biochemical Genetics* 35: 1-11.
- Krafsur, E.S. & Brockhouse, C.L. 1997. The Myriapoda is the sister group to the Hexapoda. *Antenna* 21: 197-199.

### 1998

- Jurenka, R., Holland, D. & **Krafsur, E.S.** 1998. Hydrocarbon profile in face flies. *Journal of Chemical Ecology* 37: 206-214.

**Krafsur, E.S.** 1998. Sterile insect technique for suppressing and eradicating insect populations: 55 years and counting. *Journal of Agricultural Entomology* 15: 303-317.  
**1999**

**Krafsur, E.S.**, Rosales, A.L. & Kim, Y. 1999. Age structure of overwintered face fly (Diptera: Muscidae) populations estimated by pterin concentrations and ovarian dynamics. *Medical and Veterinary Entomology* 13: 41-47

**Krafsur, E.S.**, Moon, R.D., Kim, Y. & Rosales, A.L. 1999. Dynamics of diapause recruitment in autumnal face fly (Diptera: Muscidae) populations as inferred from gonotrophic, fat body, and pterin based age distributions. *Medical and Veterinary Entomology* 13: 337-348.

Wohlford, D.L., **Krafsur, E.S.**, Griffiths N.T, Marquez, J.G. & Baker, M.D. 1999. Genetic differentiation of some *Glossina morsitans morsitans* populations. *Medical and Veterinary Entomology* 13: 377-385.

Morjan, W.E., Obrycki, J.J. & **Krafsur, E.S.** 1999. Inbreeding effects on *Propylea quatuordecimpunctata* (L.) (Coleoptera: Coccinellidae). *Annals of the Entomological Society of America* 92: 260-268.

**Krafsur, E.S.** 1999. Allozyme gene diversities in some leaf beetles. *Biochemical Genetics* 37: 215-226.

**Krafsur, E.S.** & Wohlford, D.L. 1999. Breeding Structure of *Glossina pallidipes* Populations Evaluated by Mitochondrial Variation. *Journal of Heredity* 90: 635-642.

## 2000

**Krafsur, E.S.** & Obrycki, J.J. 2000. *Coleomegilla maculata* De Geer (Coleoptera: Coccinellidae) is a species complex. *Annals of the Entomological Society of America* 93: 1156-1163.

**Krafsur, E.S.**, Madsen, M., Wohlford, D.L., Mihok, S., & Griffiths, N.T. 2000. Genetic differentiation in *G. morsitans submorsitans* Newstead. *Bulletin of Entomological Research* 90: 329-335.

**Krafsur, E.S.**, Bryant, N.L., Marquez, J.G. & Griffiths, N.T. 2000. Genetic distances among North American, British, and West African house fly populations of *Musca domestica* L. *Biochemical Genetics* 38: 275-284.

**Krafsur, E.S.** 2000. Tsetse biology and ecology. *Quarterly Review of Biology* 75: 94.

## 2001

Marquez, J.G., Moon, R.D. & **Krafsur, E.S.** 2001. Genetic differentiation among populations of house flies (Diptera: Muscidae) breeding at a multiple-barn, egg-layer facility in central Minnesota. *Journal of Medical Entomology* 38: 218-222.

Obrycki, J.J., **Krafsur, E.S.**, Bogran, C.E., Gomez, Luis E. & Cave, R.E. 2001. Comparative studies of three populations of the lady beetle predator *Hippodamia convergens* (Coleoptera: Coccinellidae). *Florida Entomologist* 84: 55-62.

Baker, M.D. & **Krafsur, E.S.** 2001. Identification and Properties of Microsatellite

Markers in the tsetse fly *Glossina morsitans sensu lato* (Diptera: Glossinidae). *Molecular Ecology Notes* 1: 234-236.

**Krafsur, E.S.**, Endsley, M.A., Wohlford, D.L., Griffiths, N.T. & Allsopp, R. 2001. Genetic differentiation of *Glossina morsitans centralis* populations. *Insect Molecular Biology* 10: 387-398.

**Krafsur, E.S.** 2001. Population genetics of some morsitans group tsetse flies (Diptera: Glossinidae), p 220-225. Proceedings 25<sup>th</sup> ISCTRC Conference, Mombasa, Kenya (September 1999).

## 2002

**Krafsur, E.S.** 2002. Population structure of the tsetse fly *Glossina pallidipes* estimated by allozyme, microsatellite, and mitochondrial diversities. *Insect Molecular Biology* 11: 37-45.

Endsley, M.A., Baker, M.D. & **Krafsur, E.S.** 2002. Microsatellite loci in the house fly, *Musca domestica* L. (Diptera: Muscidae). *Molecular Ecology Notes* 2: 72-74.

**Krafsur, E.S.** & Endsley, M.A. 2002. Microsatellite diversities and gene flow in *Glossina morsitans*. *Medical and Veterinary Entomology* 16: 292-300.

Marquez, J.G. & **Krafsur, E.S.** 2002. Gene flow among geographically diverse house fly populations (*Musca domestica* L.): A worldwide survey of mitochondrial diversity. *Journal of Heredity* 93: 254-259.

## 2003

Marquez, J.G. & **Krafsur, E.S.** 2003 Mitochondrial diversity in New World house flies (Diptera: Muscidae). *Journal of Medical Entomology* 40: 30-36.

Marquez, J.G. & **Krafsur, E.S.** 2003. Mitochondrial diversity evaluated by the single strand conformational polymorphism method in African and North American house flies (*Musca domestica* L.). *Insect Molecular Biology* 12: 99-106.

**Krafsur, E.S.** 2003. Tsetse fly population genetics: an indirect approach to dispersal. *Trends in Parasitology* 19:162-166.

**Krafsur, E.S.** 2003. Genetic diversity and gene flow in *morsitans* group tsetse flies. *Tsetse and Trypanosomiasis Quarterly* 25: 141-146.

Ouma, J.O., Cummings, M.A., Jones, K.C. & **Krafsur, E.S.** 2003. Characterization of microsatellite markers in the tsetse fly, *Glossina pallidipes* (Diptera: Glossinidae). *Molecular Ecology Notes* 3: 450-453.

Marquez, J.G., Bangs, M.J. & **Krafsur, E.S.** 2003. Mitochondrial diversity of *Musca domestica* housefly populations in the Asian and western Pacific biogeographical regions. *Medical and Veterinary Entomology* 17: 429-435.

## 2004

Aldrich, B.T., **Krafsur, E.S.** and Kambhampati, S. 2004. Species-specific allozyme markers for Appalachian wood-feeding cockroaches (Dictyoptera: Cryptocercidae)



*Biochemical Genetics* 42: 149-164.

Marquez, J.G., Vreysen, M.J.B., Robinson, A.S., Bado, S. & **Krafsur, E.S.** 2004. Mitochondrial diversity analysis of *Glossina palpalis gambiensis* from Mali and Senegal. *Medical and Veterinary Entomology* 18: 1-8.

## 2005

Gooding, R.H. & **Krafsur, E.S.** 2005. Tsetse genetics. *Annual Review of Entomology* 50: 101-123.

Cummings, M.A., Moon, R.D., & **Krafsur, E.S.** 2005. North American face flies Old World origins: mitochondrial evidence. *Medical and Veterinary Entomology* 19: 48-52.

Cummings, M.A. & **Krafsur, E.S.** 2005. Spatial diversity in mitochondrial cytochrome c oxidase in house flies (Diptera: Muscidae). *Medical and Veterinary Entomology* 19: 53-59.

**Krafsur, E.S.**, Cummings, M.A., Endsley, M.A., Marquez, J.G. & Nason, J.D. 2005. Geographic differentiation in the house fly estimated by microsatellite and mitochondrial variation. *Journal of Heredity* 96: 502-512 .

Ouma, J.O., Marquez, J.G. & **Krafsur, E.S.** 2005. Macrogeographic structure of the tsetse fly, *Glossina pallidipes* (Diptera: Glossinidae). *Bulletin of Entomological Research* 95: 437- 447.

**Krafsur, E.S.**, Obrycki, J.J. and Harwood, J.D. 2005. Comparative genetic studies of native and introduced Coccinellidae in North America. *European Journal of Entomology* 102: 469-474.

Aldrich, B.T., Kambhampati, S. & **Krafsur, E.S.** 2005. Population genetics of wood-feeding cockroaches in the genus *Cryptocercus*. *Journal of Heredity* 96: 572-575.

**Krafsur, E.S.** Role of population genetics in the sterile insect technique, pp 389-406. In V.A. Dyck, J. Hendrich, and A.S. Robinson (eds.), *Sterile Insect Technique. Principles and Practice in Area-Wide Integrated Pest Management*. Springer.

## 2006

Terblanche, J.S., Klok, C.J., **Krafsur, E.S.** & Chown, S.L. 2006. Phenotypic plasticity and geographic variation in thermal tolerance and water loss of the tsetse fly *Glossina pallidipes* (Diptera: Glossinidae): implications for distribution modeling. *American Journal of Tropical Medicine & Hygiene* 74: 786-794.

Ouma, J.O., Marquez, J.G. & **Krafsur, E.S.** 2006. Microgeographic breeding structure of the tsetse fly, *Glossina pallidipes* (Diptera: Glossinidae) in south-western Kenya. *Journal of Medical and Veterinary Entomology* 20: 138-149.

**Krafsur, E.S.** and Endsley, M.A. 2006. Shared microsatellite loci in *Glossina morsitans sensu lato* (Diptera: Glossinidae). *Journal of Medical Entomology* 43: 640-642.

Marquez, J.M, Malele, I.I., Ouma, J.O. and **Krafsur, E.S.** 2006. *Glossina swynnertoni* Austen: effective population size and gene flow estimated by mitochondrial diversity. *Bulletin of Entomological Research* 96: 353-360.

Mihok, S., Carlson, D.A., **Krafsur, E.S.** and Foil, L.D. 2006. Performance of the Nzi and

other traps for biting flies in North America. *Bulletin of Entomological Research* 96: 387-397.

Ouma, J.O, Marquez, G.M. and **Krafsur, E.S.** 2006. New polymorphic microsatellites in *Glossina pallidipes* and their cross amplification in tsetse fly taxa. *Biochemical Genetics* 44: 471-477.

### 2007

Ouma, J.O, Marquez, G.M. and **Krafsur, E.S.** 2007. Patterns of genetic diversity and differentiation in the tsetse fly *Glossina morsitans morsitans* Westwood populations in East and southern Africa. *Genetica* 130: 139-151

Jurenka, R., Terblanche, J.S., Klok, C.J., Chown, S.L., & **Krafsur, E.S.** 2007. Cuticular lipid mass and desiccation rates in *Glossina pallidipes*: inter-population variation. *Physiological Entomology* 32: 287-293.

Marquez, J.G., Cummings, & **Krafsur, E.S.** 2007. Phylogeography of the stable fly, *Stomoxys calcitrans* L., based on ribosomal 16S and cytochrome oxidase I mitochondrial genes. *Journal of Medical Entomology* 44: 998-1008.

Ouma JO, Marquez JG, **Krafsur ES** (2007). Spatial and temporal genetic structure of *Glossina pallidipes* (Diptera: Glossinidae) in south-western Kenya. *Journal of Protozoology Research* 17(2):79-80

### 2008 – present time

Krafsur, E.S. 2008. Face flies. In: J. Capinera (ed), Encyclopedia of Entomology 2<sup>nd</sup> ed. Krafsur, E.S. 2008. Screwworms. In: J. Capinera (ed), Encyclopedia of Entomology 2<sup>nd</sup> ed.

Krafsur, E.S., Marquez, J.G. & Ouma, J.O. 2008. Population structure of East African *Glossina fuscipes fuscipes*. *Medical & Veterinary Entomology* 22, 222-227.

Krafsur, E.S. 2009. Tsetse flies: genetics, evolution, and role as vectors. *Infection, genetics and evolution* 9: 124-141.

Subramanian, R.A, Cathcart, L.A.A., **Krafsur, E.S.**, Atkinson, P.W., and O'Brochta, D.A. 2009. Hermes transposon distribution and structure in *Musca domestica*. *J. Heredity* 100: 473-480.

Ouma, J.O. and **Krafsur, E.S.** (2010). The influence of temporal and seasonal changes on genetic diversity and population structure of tsetse fly in Kenya. *East African Agriculture and Forestry Journal* 76: 1 – 10.

P.L. Dorn, F. Noireau, **E.S. Krafsur**, G.C. Lanzaro and A.J. Corne. 2011. Genetics of major insect vectors. In *Genetics and evolution of infectious diseases*, M. Tibayrenc (Ed). Elsevier, London

Ouma, J.O.O., Beadell, J.S., Hyseni, C., Okedi, L.M., **Krafsur, E.S.**, Aksoy, S. & Caccone, A. 2011. Genetic diversity and population structure of *Glossina pallidipes* in Uganda and western Kenya. *Parasites & Vectors* 4: 122- (pp 1 – 11).

### Abstracts, conference reports, and posters 1998 – present time

- Krafsur, E.S., Griffiths, N., Wohlford, D.L., Madsen, M. & Baker, M. 1998. Genetic variation and population differentiation in the *morsitans* group of tsetse flies (Glossinidae). Fourth International Congress of Dipterology, 6-13 September 1998, Keble College, Oxford. p 109-110.
- Marquez, J.G. & Krafsur, E.S. 1998. Mitochondrial DNA polymorphisms in cosmopolitan *Musca domestica* populations (Muscidae). Fourth International Congress of Dipterology, 6-13 September 1998, Keble College, Oxford. p 109-110.
- Krafsur, E.S., Baker, M.D., & Wohlford, D.L. 1999. Population genetics of the Morsitans group of tsetse flies (abstract). International Scientific Council for Trypanosomiasis Research & Control, Mombasa, Kenya, p 61.
- Jurenka, R., Marquez, G., Ouma, J., Krafsur, E., Terblanche, J., Klok, J. & Chown, S. (2004) Cuticular lipids of the tsetse fly, *Glossina pallidipes*. XXII International Congress Entomol, Brisbane, August
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