

CURRICULUM VITAE

ROBERT EUGENE PAGE, JR.

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EDUCATION:

B.S., San Jose State University, 1976. Major in Entomology; Minor in Chemistry.

Ph.D., Entomology, University of California, Davis, 1980.

PROFESSIONAL EXPERIENCE:

Assistant Professor, Department of Entomology, The Ohio State University, Columbus, Ohio - January 1986 to June 1989.

Associate Professor, Department of Entomology, University of California, Davis, California - June 1989 to July 1991.

Professor, Department of Entomology, University of California, Davis, California - July 1991 to July 2004.

Chair, Department of Entomology, University of California, Davis, California - October 1999 to July 2004.

External Faculty, Santa Fe Institute, 2001 - 2005.

Chair and Professor Emeritus, Department of Entomology, University of California, Davis, California July 2004 – present.

Founding Director and Foundation Professor, School of Life Sciences, Arizona State University, Arizona, May 2004 to present.

PROFESSIONAL SOCIETIES:

Entomological Society of America
Genetics Society of America
International Union for the Study of Social Insects
Sigma Xi
Society for the Study of Evolution

SIGNIFICANT HONORS AND AWARDS:

American Association for the Advancement of Science Fellow, 1992.
Alexander von Humboldt Senior Scientist Award, 1995. [This is the highest honor given by the German Government to a Foreign Researcher.]
Brazilian Academy of Science, Elected Foreign Member, 1999
ISI Highly Cited (Plant and Animal Science) 2005 – present [Represents the top 1/2 percent of publishing researchers.]
American Academy of Arts and Sciences, Elected Member 2006
Fellow, Wissenschaftskolleg zu Berlin, 2009-2010

MAJOR PLENARY LECTURES

Fifth International Congress of Systematic and Evolutionary Biology, Budapest, Hungary, 1996.
XXVth International Ethological Conference, Vienna, Austria, 1997.
XXXVI Apimondia Congress, Vancouver, Canada, 1999
European Section of the International Union for the Study of Social Insects, Berlin, Germany, 2002 (Conference Keynote Address)
GDR d'Ethologie, Rennes, France, 2005 (Conference Keynote Address)
51st Congress of Brazilian Genetics, Aguas de Lindoia, Brazil, 2005 (Keynote Lecture)
Lorne Genome Conference, Lorne Australia, 2006
2nd Apidologie Conference, Prague, Czech, 2006
Apimondia 2007, Melbourne Australia (Plenary Address)

NATIONAL and INTERNATIONAL OFFICES:

Secretary, Chair-elect, Chair, Subsection Cb, Entomological Society of America, 1986-1989.

President, North American Section, International Union for the Study of Social Insects, 1991.

Council Member, International Bee Research Association, 1995 - 2000

EDITOR FOR JOURNALS and EDITORIAL BOARDS

Behavioral Ecology and Sociobiology (Associate Editor, 2000-2008)
Brazilian Journal of Genetics (Editorial Board 1995-2000)
Apidologie (Editorial Board 2000-present)

NATIONAL SCIENCE FOUNDATION FELLOWS:

Dr. Gene Robinson (1989)
Dr. Sean O'Donnell (1994-1996)
Dr. Timothy Linksvayer (2005-present)

SLOAN FOUNDATION FELLOW IN MOLECULAR EVOLUTION:

Dr. Michael Crosland (1991-1993)

LIFE SCIENCES RESEARCH FOUNDATION FELLOW:

Dr. Paul Ebert (1991-1992)

FEODOR LYNEN FELLOW:

Dr. Jürgen Gadau (1997-1999)
Dr. Martin Beye (1999-2000)
Dr. Olav Rüppell (2001- 2003)
Dr. Oliver Niehuis (2005-present)
Dr. Florian Wolschin (2006-present)

DEUTSCHE FORSCHUNGSGEMEINSCHAFT POSTDOCTORAL FELLOWS:

Dr. Bernhard A. Kraus (1992-1993)
Dr. Claudia Dreller (1995-1996)

OTHER POSTDOCTORAL FELLOWS:

Dr. Sydney Cameron (1986-1987)
Dr. Gene Robinson (1986-1988)
Dr. Robin Stuart (1991-1992)
Dr. Sean O'Donnel (1993)
Dr. Paul Ebert (1993-1996)
Dr. Greg Hunt (1994-1996)
Dr. Tanya Pankiw (1997-2001)
Dr. Merideth Humphries (2000-2004)
Dr. Mindy Nelson (2000-2001) (2005)
Dr. Dave Nielsen (2000-2002)
Dr. Gro Amdam (2003-present)
Dr. Colin Brent (2005-present)
Dr. Ying Wang (2006-present)

VISITING SCIENTISTS:

Dr. Sandra Mitchell (1990)
Dr. Jennifer Fewell (1992)
Dr. Keith Waddington (sabbatical leave from University of Miami, 1993-1994)
Dr. Mindy Nelson (1993-1994)
Dr. Susan Bulova (1994-present)
Dr. Maria Navajas (sabbatical leave from INRA, Montpellier, France, 1994-1995)
Dr. Pascal Harizanis (summer 1997)
Dr. Keith Waddington (summer 1997)
Dr. Mike Haverty (sabbatical leave from US Forest Service, 2000-2001)
Dr. Keith Waddington (sabbatical leave from University of Miami, 2000-2001)
Ms. Jennifer Shelley (German exchange student from Tübingen summer 2002)
Mr. Cedric Bachelier (French exchange student from Paris summer 2003)
Dr. Hosny Sharif El-Din (sabbatical leave from Egypt 6 mos. 2003)
Dr. Osman Kaftanoglu (2005-2007)

GRADUATE STUDENTS

Jennifer Baldacci
Nick Calderone
Kirsten Copren
Ernesto Guzmán-Novoa
Merideth Humphries
Kate Ihle
Greg Hunt
David Nielsen
Domingos de Oliveira
Adam Siegel
David Tarpy
Kirsten Traynor
Jennifer Tsuruda

SIGNIFICANT GRANTS :

- National Science Foundation, "Nestmate recognition in honey bees"
- National Science Foundation, "Honey bee division of labor: a behavioral genetic analysis"
- National Science Foundation, "Collaborative Research: Nestmate recognition in honeybees"
- National Science Foundation, "Nestmate recognition in honey bees: collaborative research on behavioral, chemical, and genetic aspects"
- National Science Foundation, "Molecular biology and pharmacology of honey bee neuromodulator receptors"
- United States Department of Agriculture National Research Initiative Competitive Grant, "Mapping defensive behavior quantitative trait loci in Africanized honey bees"
- National Institute of Mental Health, "A genomic map of honey bee foraging behavior"
- National Science Foundation, "Genetic, developmental, and environmental determinants of honey bee foraging behavior"
- National Science Foundation, "Biotechnology and the integration of behavioral science."
- National Science Foundation, "The genetic architecture of behavioral development of foraging behavior in honey bees."
- National Science Foundation, "The genetic architecture of honey bee sucrose response thresholds."
- National Institute of Aging, "Biodemographic effects of social evolution in the honey bee."
- United States Department of Agriculture National Research Initiative Competitive Grant, "Pheromonal and genetic regulation of honey bee foraging behavior."

PUBLICATIONS (Refereed Research Papers):

1. Page, R. E. and J. W. Fisher. 1976. Observation of Pleocoma hirticollis vandykei Linsley in Santa Clara County, California (Coleoptera: Scarabaeidae). Pan-Pacific Entomologist 52:95.
2. Page, R. E. 1980. New photographic method for estimating numbers of sealed brood cells. Journal of Apicultural Research 19:202-204.
3. Page, R. E. 1980. Protandrous reproduction in honey bees. Environmental Entomology 10:359-362.
4. Page, R. E. 1980. The evolution of multiple mating behavior of honey bee queens. Genetics 96:263-273.

5. Page, R. E. and H. H. Laidlaw. 1982. Closed population honeybee breeding 1. Population genetics of sex determination. *Journal of Apicultural Research* 21:30-37.
6. Page, R. E. and H. H. Laidlaw. 1982. Closed population honeybee breeding. 2. Comparative methods of stock maintenance and selective breeding. *Journal of Apicultural Research* 21:38-44.
7. Page, R. E. and R. A. Metcalf. 1982. Multiple mating, sperm utilization, and social evolution. *The American Naturalist* 119:263-281.
8. Page, R. E. and R. W. Marks. 1982. The population genetics of sex determination in honey bees: random mating in closed populations. *Heredity* 48:263-270.
9. Page, R. E. 1982. Polyandry in Brachymyrmex depilis Emery (Hymenoptera: Formicidae). *Pan Pacific Entomologist* 58:258.
10. Page, R. E. and M. A. Willis. 1983. Sexual dimorphism in ventral abdominal setae in Scolytus multistriatus Marsham (Coleoptera: Scolytidae): a possible role in courtship behavior. *Annals of the Entomological Society of America* 76:78-82.
11. Page, R. E., H. H. Laidlaw, and E. H. Erickson. 1983. Closed population honeybee breeding 3. The distribution of sex alleles with gyne supersedure. *Journal of Apicultural Research* 22:184-190.
12. Page, R. E., R. B. Kimsey, and H. H. Laidlaw. 1984. Migration and dispersal of spermatozoa in spermathecae of queen honey bees (Apis mellifera L.). *Experientia* 40:182-184.
13. Page, R. E. and E. H. Erickson. 1984. Selective rearing of queens by worker honey bees: kin or nestmate recognition. *Annals of the Entomological Society of America* 77:578-580.
14. Page, R. E. and R. A. Metcalf. 1984. A population investment sex ratio for the honey bee. *The American Naturalist* 124:680-702.
15. Laidlaw, H. H. and R. E. Page. 1984. Polyandry in honey bees: sperm utilization and intra-colony genetic relationships. *Genetics* 108:985-997.
16. Page, R. E. and E. H. Erickson. 1985. Identification and certification of Africanized honey bees. *Annals of the Entomological Society of America* 78:149-158.
17. Page, R. E. and H. H. Laidlaw. 1985. Closed population honeybee breeding. *Bee World* 66:63-72.
18. Page, R. E., H. H. Laidlaw, and E. H. Erickson. 1985. Closed population honeybee breeding. 4. The distribution of sex alleles with top crossing. *Journal of Apicultural Research* 24:38-42.
19. Crozier, R. H. and R. E. Page. 1985. On being the right size: male contributions and multiple mating in social Hymenoptera. *Behavioral Ecology and Sociobiology* 18:105-115.
20. Page, R. E. and E. H. Erickson. 1986. Kin recognition and virgin queen acceptance by worker honey bees (Apis mellifera L.). *Animal Behaviour* 34:1061-1069.

21. Page, R. E. and E. H. Erickson. 1986. Kin recognition and emergency queen rearing by worker honey bees (*Apis mellifera* L.). *Annals of the Entomological Society of America* 79:460-467.
22. Page, R. E. 1986. A honey bee pheromone that repels workers. In: Abstracts 10th International Congress IUSSE, J. Eder and H. Rembold, eds. Verlag J. Peperny, Munich, P. 138.
23. Page, R. E., E. L. Nash, and E. H. Erickson. 1987. The assessment of damage to the beekeeping industry of the United States. *Bulletin of the Entomological Society of America* 33:190-194.
24. Post, D. C., R. E. Page, and E. H. Erickson. 1987. Honey bee (*Apis mellifera* L.) queen feces: source of pheromone that repels workers. *Journal of Chemical Ecology* 13:583-591.
25. Smith, A. W., G. R. Needham, and R. E. Page. 1987. A method for the detection and study of live honey bee tracheal mites (*Acarapis woodi*). *The American Bee Journal* 127:433-434.
26. Gary, N. E. and R. E. Page. 1987. Phenotypic variability in susceptibility of honey bees, *Apis mellifera* L., to infestation by tracheal mites, *Acarapis woodi* Rennie. *Experimental and Applied Acarology* 3:291-305.
27. Calderone, N. W. and R. E. Page. 1988. Genotypic variability in age polyethism and task specialization in the honey bee, *Apis mellifera* (Hymenoptera: Apidae). *Behavioral Ecology and Sociobiology* 22:17-25.
28. Page, R. E., M. S. Blum, and H. M. Fales. 1988. *o*-Aminoacetophenone, a pheromone that repels honeybees (*Apis mellifera* L.). *Experientia* 44:270-271.
29. Robinson, G. E. and R. E. Page. 1988. Genetic determination of guarding and undertaking in honey-bee colonies. *Nature* 333:356-358. [cover article]
30. Page, R. E. and H. H. Laidlaw. 1988. Full sisters and super sisters: a terminological paradigm. *Animal Behaviour*: 36:944-945.
31. Page, R. E. and E. H. Erickson. 1988. Reproduction by worker honey bees. *Behavioral Ecology and Sociobiology* 23:117-126.
32. Page, R. E. and R. A. Metcalf. 1988. A population estimate of Mdh allozyme frequencies for the honey bee, *Apis mellifera* L. (Hymenoptera: Apidae). *Pan-Pacific Entomologist* 64:285-289.
33. Page, R. E., G. E. Robinson, and M. K. Fondrk. 1989. Genetic specialists, kin recognition, and nepotism in honey-bee colonies. *Nature* 338:576-579. [cover article]
34. Robinson, G. E. and R. E. Page. 1989. Genetic determination of nectar foraging, pollen foraging, and nest-site scouting in honey bee colonies. *Behavioral Ecology and Sociobiology* 24:317-323.
35. Page, R. E. 1989. Neotropical African bees. *Nature* 339:181-182.

36. Robinson, G. E., R. E. Page, C. Strambi, and A. Strambi. 1989. Hormonal and genetic control of behavioral integration in honey bee colonies. *Science* 246:109-112.
37. Gary, N. E. and R. E. Page. 1989. Tracheal mite (Acari: Tarsonemidae) infestation effects on foraging and survivorship of honey bees (Hymenoptera: Apidae). *Journal of Economic Entomology* 82:734-739.
38. Gary, N. E., R. E. Page, and K. Lorenzen. 1989. Effect of age of worker honey bees (*Apis mellifera* L.) on tracheal mite (*Acarapis woodi* Rennie) infestation. *Experimental and Applied Acarology* 7:153-160.
39. Calderone, N. W., G. E. Robinson, and R. E. Page. 1989. Genetic structure and division of labor in honeybee societies. *Experientia* 45:765-767.
40. Page, R. E., D. C. Post, and R. A. Metcalf. 1989. Satellite nests, early males, and plasticity of reproductive behavior in a paper wasp. *The American Naturalist* 134:731-748.
41. Rothenbuhler, W. C. and R. E. Page. 1989. Genetic variability for temporal polyethism in colonies consisting of similarly-aged worker honey bees. *Apidologie* 29:433-437.
42. Page, R. E. and N. E. Gary. 1990. Genotypic variation in susceptibility of honey bees, *Apis mellifera*, to infestation by tracheal mites, *Acarapis woodi*. *Experimental and Applied Acarology* 8:275-283.
43. Page, R. E. and W. E. Kerr. 1990. The evolution of monandry and queen replacement in *Melipona* (Hymenoptera: Apidae). *Brazilian Journal of Genetics* 13:209-229.
45. Page, R. E. 1990. Interindividual behavioral variability in social insects. *Environmental Entomology* 19:821. [Book review]
46. Robinson, G. E., R. E. Page, M. K. Fondrk. 1990. Intracolony variation in worker oviposition, oophagy, and larval care in queenless honey bee colonies. *Behavioral Ecology and Sociobiology* 16:315-323.
47. Breed, M. D., G. E. Robinson, and R. E. Page. 1990. Division of labor during honey bee colony defense. *Behavioral Ecology and Sociobiology* 27:395-401.
48. Page, R. E. and G. E. Robinson. 1990. Nepotism in bees. *Nature* 346:707. [Scientific correspondence]
49. Page, R. E., M. D. Breed, and W. M. Getz. 1990. Nepotism in bees. *Nature* 346:708. [Scientific correspondence]
50. Gary, N. E., R. E. Page, R. A. Morse, C. E. Henderson, M. E. Nasr, and K. Lorenzen. 1990. Comparative resistance of honey bees (*Apis mellifera* L.) from Great Britain and United States to infestation by tracheal mites (*Acarapis woodi*). *American Bee Journal* 130:667-669.
51. Page, R. E. 1991. Tropical bees. *Evolution* 45:469-470. [Book review]
52. Smith, A. W., R. E. Page, and G. R. Needham. 1991. Vegetable oil disrupts the dispersal of tracheal mites, *Acarapis woodi* (Rennie), to young host bees. *American Bee Journal* 131:44-46.

53. Smith, A. W., G. R. Needham, R. E. Page, and M. K. Fondrk. 1991. Dispersal of the honey-bee tracheal mite, Acarapis woodi (Acari: Tarsonemidae) to old winter bees. *Bee Science* 1:95-99.
54. Calderone, N. W. and R. E. Page. 1991. Evolutionary genetics of division of labor in colonies of the honey bee (Apis mellifera). *The American Naturalist* 138:69-92.
55. Page, R. E., R. A. Metcalf, R. L. Metcalf, E. H. Erickson, and R. L. Lampman. 1991. Extractable hydrocarbons and kin recognition in the honey bee (Apis mellifera L.) *Journal of Chemical Ecology* 17:745-756.
56. Breed, M. D. and R. E. Page. 1991. Intra- and Interspecific nestmate recognition in Melipona workers (Apidae). *Journal of Insect Behavior* 4:463-469.
57. Getz, W. M. and R. E. Page. 1991. Chemosensory kin communication systems and kin recognition in honey bees. *Ethology* 87:298-315.
58. Stuart, R. J. and R. E. Page. 1991. Genetic component to division of labor among workers of a leptothoracine ant. *Naturwissenschaften* 78:375-377.
59. Page, R. E. 1992. How Africanized bees will affect California agriculture. *California Agriculture* 46:18-19.
60. Page, R. E., G. E. Robinson, D. S. Britton, and M. K. Fondrk. 1992. Genotypic variability for rates of behavioral development in worker honeybees (Apis mellifera). *Behavioral Ecology* 4:173-180.
61. Robinson, G. E., R. E. Page, C. Strambi, and A. Strambi. 1992. Colony integration in honey bees: mechanisms of behavioral reversion. *Ethology* 90:336-348.
62. Calderone, N. W. and R. E. Page. 1992. Effects of interactions among genotypically diverse nestmates on task specialization by foraging honeybees (Apis mellifera). *Behavioral Ecology and Sociobiology* 30:219-226.
63. Breed, M. D., T. M. Stiller, M. S. Blum, and R. E. Page. 1992. Honeybee nestmate recognition: effects of queen fecal pheromones. *Journal of Chemical Ecology* 18:1633-1640.
64. Hunt, G. J. and R. E. Page. 1992. Patterns of inheritance with RAPD molecular markers reveal novel types of polymorphism in the honeybee. *Theoretical and Applied Genetics* 85:15-20.
65. Page, R. E., M. K. Fondrk, and G. E. Robinson. 1993. Selectable components of sex allocation in colonies of the honey bee (Apis mellifera L.). *Behavioral Ecology* 4: 239-245.
66. Plettner, E., K.N. Slessor, M.L. Winston, G.E. Robinson, and R.E. Page. 1993. Mandibular gland components and ovarian development as measures of caste differentiation in the honey bee (Apis mellifera L.). *Journal of Insect Physiology* 39: 235-240.

67. Guzmán-Novoa, E. and R. E. Page. 1993. Backcrossing Africanized honey bee (*Apis mellifera*) queens to European drones reduces colony defensive behavior. *Annals of the Entomological Society of America* 86: 352-355.
68. Fondrk, M. K., R. E. Page, and G. J. Hunt. 1993. Paternity analysis of worker honey bees using random amplified polymeric DNA (RAPD). *Naturwissenschaften* 80: 226-231.
69. Page, R. E. and S. D. Mitchell. 1993. The superorganism: a new perspective or a tired metaphor? *Trends in Ecology and Evolution* 8: 265-266. [Book review]
70. Fewell, J. H. and R. E. Page. 1993. Genotypic variation in foraging responses to environmental stimuli by honey bees, *Apis mellifera*. *Experientia* 49: 1106-1112.
71. Guzman-Novoa, E. and R. E. Page. 1994. Genetic dominance and worker interactions affect honey bee colony defense. *Behavioral Ecology* 5: 91-97.
72. Robinson, G. E., R. E. Page, and Z.-Y. Huang. 1994. Temporal polyethism in social insects is a developmental process. *Animal Behavior* 48: 467-469.
73. Robinson, G. E., R. E. Page, and N. Arensen. 1994. Genotypic differences in brood rearing in honey bee colonies: context specific? *Behavioral Ecology and Sociobiology* 34: 125-137.
74. Hunt, G. J. and R. E. Page. 1994. Linkage analysis of sex determination in the honey bee (*Apis mellifera*). *Molecular and General Genetics* 244: 512-518.
75. Nielsen, D., R. E. Page, and M. W. J. Crosland. 1994. Clinal variation and selection of MDH allozymes in honey bee populations. *Experientia* 50:867-871.
76. Page, R. E. and G. E. Robinson. 1994. Reproductive competition in queenless honey bee colonies (*Apis mellifera* L.). *Behavioral Ecology and Sociobiology* 35: 99-107.
77. Guzmán-Novoa, E., R. E. Page, and M. Kim Fondrk. 1994. Morphometric techniques do not detect intermediate and low levels of africanization in honey bee (*Apis mellifera* L.) colonies. *Annals of the Entomological Society of America* 87: 507-515.
78. Guzmán-Novoa, E., R. E. Page, and N. E. Gary. 1994. Behavioral and life-history components of division of labor in honey bees (*Apis mellifera* L.). *Behavioral Ecology and Sociobiology* 34: 409-417
79. Robinson, G. E. and R. E. Page. 1995. Genotypic constraints for corpse removal in honey bee colonies. *Animal Behavior* 49: 867-876.
80. Gordon, D. M., J. F. Barthell, R. E. Page, M. K. Fondrk, and R. W. Thorp. 1995. Colony performance of selected honey bee (Hymenoptera: Apidae) strains used for alfalfa pollination. *Journal of Economic Entomology* 88: 51-57.
81. Kraus, B. and R. E. Page. 1995. Effect of vegetable oil on *Varroa jacobsoni* and honey bee colonies. *Bee Science* 3: 157-161.
82. Hunt, G. J. and R. E. Page. 1995. A linkage map of the honey bee, *Apis mellifera*, based on RAPD markers. *Genetics* 139: 1371-1382.

83. Page, R. E., G. E. Robinson, M. K. Fondrk, and M. E. Nasr. 1995. Effects of worker genotypic diversity on honey bee colony development and behavior (*Apis mellifera* L.). *Behavioral Ecology and Sociobiology* 36: 387-396.
84. Dreller, C., M. K. Fondrk, and R. E. Page. 1995. Genetic variability affects the behavior of foragers in a feral honeybee colony. *Naturwissenschaften* 82: 243-245.
85. Page, R. E. and M. K. Fondrk. 1995. The effects of colony-level selection on the social organization of honey bee (*Apis mellifera* L.) colonies: colony-level components of pollen hoarding. *Behavioral Ecology and Sociobiology* 36: 135-144.
86. Kraus, B. and R. E. Page. 1995. Population growth of *Varroa jacobsoni* Oud in Mediterranean climates of California. *Apidologie* 26: 149-157.
87. Page, R. E., K. D. Waddington, G. J. Hunt, and M. K. Fondrk. 1995. Genetic determinants of honey bee foraging behavior. *Animal Behaviour* 50: 1617-1625.
88. Kraus, B. and R. E. Page. 1995. Effect of *Varroa jacobsoni* (Mesostigmata: Varroadae) on feral *Apis mellifera* (Hymenoptera: Apidae) in California. *Environmental Entomology* 24: 1473-1480.
89. Hunt, G. J., R. E. Page, M. K. Fondrk, and C. J. Dullum. 1995. Major quantitative trait loci affecting honey bee foraging behavior. *Genetics* 141: 1537-1545.
90. Harrison, J. F., D. I. Nielsen, and R. E. Page. 1996. Malate dehydrogenase phenotype, temperature, and colony effects on flight metabolic rate in the honey bee, *Apis mellifera*. *Functional Ecology* 10: 81-88.
91. Calderone, N. W. and R. E. Page. 1996. Temporal polyethism and behavioural canalization in the honey bee, *Apis mellifera*. *Animal Behaviour* 51: 631-643.
92. Breed, M. D., M. F. Garry, A. N. Pearce, B. E. Hibbard, L. B. Bjostad, and R. E. Page. 1995. The role of wax comb in honey bee nestmate recognition: genetic effects on comb discrimination, acquisition of comb cues by bees, and passage of cues to individuals. *Animal Behaviour* 50: 486-496.
93. Breed, M. D., R. E. Page, B. E. Hibbard, and L. B. Bjostad. 1995. Interfamily variation in comb wax hydrocarbons produced by honey bees. *Journal of Chemical Ecology* 21: 1329-1338.
94. Guzmán-Novoa, E., A. Sanchez, R. E. Page, and T. Garcia. 1996. Susceptibility of European and Africanized honeybees (*Apis mellifera* L.) and their hybrids to *Varroa jacobsoni* Oud. *Apidologie* 27: 93-103.
95. Erickson, E. H., B. H. Erickson, P. K. Flottum, J. A. Wyman, J. L. Wedberg, and R. E. Page. 1997. Effects of selected insecticide formulations, phased application and colony management strategies on honey bee mortality in processing sweetcorn. *Journal of Apicultural Research* 36: 3-13.
96. Kraus, B. and R. E. Page. 1998. Parasites, pathogens, and polyandry in social insects. *The American Naturalist* 151: 383-391.

97. Guzmán-Novoa, E., R. E. Page, and D Prieto-Merlos. 1997. Comparison of three queen finding methods in European and Africanized honey bee (*Apis mellifera* L.) colonies. *American Bee Journal* 137: 665-666.
98. Guzmán-Novoa, E., R. E. Page, and A. Correa-Benitez. 1997. Introduction and acceptance of European queens in Africanized and European honey bee (*Apis mellifera* L.) colonies. *American Bee Journal* 137: 667-668.
100. Page, R. E. and S. D. Mitchell. 1998. Self organization and the evolution of division of labor. *Apidologie* 29: 171-190. (Invited)
101. Waddington, K. D., C. M. Nelson, and R. E. Page. 1998. Effects of pollen quality and genotype on the dance of foraging honey bees. *Animal Behaviour* 56: 35-39.
102. Page, R. E., J. Erber, and M. K. Fondrk. 1998. The effect of genotype on response thresholds to sucrose and foraging behavior of honey bees (*Apis mellifera* L.). *Journal of Comparative Physiology A* 182: 489-500.
103. Hunt, G. J., E. Guzmán-Novoa, M. K. Fondrk, and R. E. Page. 1998. Quantitative trait loci for honey bee stinging behavior and body size. *Genetics* 148: 1203-1213.
104. Page, R. E. 1998. Varroa mite impacts Africanized bee spread and beekeeping. *California Agriculture* 52: 9-13. (Invited cover story)
105. Guzmán-Novoa, E. and R. E. Page. 1999. Selective breeding of honey bees (Hymenoptera: Apidae) in Africanized areas. *Journal of Economic Entomology* 92: 521-525.
106. Fewell, J. and R. E. Page. 1999. The emergence of labor in forced associations of normally solitary ant queens. *Evolutionary Ecology Research* 1: 537-548.
107. Pankiw, T., R. E. Page, and M. Kim Fondrk. 1998. Brood pheromone stimulates pollen foraging in honey bees (*Apis mellifera*). *Behavioral Ecology and Sociobiology* 44: 193-198.
108. Nielsen, D. I., P. R. Ebert, G. J. Hunt, E. Guzmán-Novoa, S. A. Kinnee, and R. E. Page. 1999. Identification of Africanized honey bees (Hymenoptera: Apidae) incorporating morphometrics and an improved PCR mitotyping procedure. *Annals of the Entomological Society of America* 92: 167-174.
109. Dreller, C, R. E. Page, and M. K. Fondrk. 1999. Regulation of pollen foraging in honeybee colonies: effects of young brood, stored pollen, and empty space. *Behavioral Ecology and Sociobiology* 45: 227-233.
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