

Mark V. Flinn

Curriculum Vitae (Jan 1, 2011)

Personal data

Born: March 2, 1954, Ann Arbor, MI, USA
Married: Carol V. Ward Children: Ricky, Warren, and Jack Flinn
Office Address: Anthropology, 212 Swallow Hall, U. Missouri, Columbia, MO 65211
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Current position

2009- University of Missouri: Professor, Dept. of Anthropology
2006- Adjunct professor, Dept. Psychological Sciences
1993-2008 University of Missouri: Associate professor, Dept. of Anthropology
2004-2006 Visiting Associate professor, Dept. Psychological Sciences
1987-1993 University of Missouri: Assistant professor, Dept. of Anthropology

Previous positions

1983-1987 University of Michigan: Fellow, Michigan Society of Fellows; Assistant professor of Anthropology; Post-doctorate, Biological Sciences & Museum of Natural History

Education

1981-1983 Ph.D. Anthropology, Northwestern University
1977-1980 (a.b.d. – advisor moved to NU) Anthropology, Pennsylvania State University
1975-1976 A.M. Anthropology, University of Michigan
1971-1975 B.Sc. Anthropology & Biology, University of Michigan

Research grants and awards

2007-2011 National Science Foundation, BCS-SBE #0640442, “Collaborative research: Early childhood stress, personality & reproductive strategies in a matrifocal community” Flinn, M. (PI), Leone, D. (co-PI), Muehlenbein, M. (co-PI) / Quinlan, R. (PI), Quinlan M. (co-PI) \$107,455 (MU portion) / \$285,038 (total).

2010 University of Missouri A&S Alumni Organization faculty incentive grant. Hormonal mechanisms for grandparenting. \$1,500

2009-2011 National Science Foundation, working group member, “Coalitions and alliances” organized by Frans de Waal (Emory University) and Sergey Gavrilets (University of Tennessee, Knoxville) (PIs), National Institute for Mathematical and Biological Synthesis, April 9-12, 2009; February 4-6, 2010; Nov 5-6, 2010.

2008 National Science Foundation, REG supplement, BCS-SBE #0640442, “Collaborative research: Early childhood stress, personality & reproductive strategies in a matrifocal community” Flinn, M. (PI), Ponzi, D. (grad student), \$4,500.

2008 National Science Foundation, Senior fellow, Systematic techniques for gathering and analyzing video data workshop, Duke University Marine Laboratories, Beaufort NC, July 27-August 1.

Research grants and awards cont.

- 2005 Distinguished Scientist Award, Bowen Center for Study of the Family, Georgetown University School of Medicine, Washington, DC. \$2,000.
- 2002-2008 National Science Foundation, SBR-0136023, "Genetic conflicts of interest, fluctuating asymmetry, and MHC" Gangestad S. (PI), Flinn, M. (co-PI), & Thornhill, R. (co-PI), \$21,951 / \$340,883.
- 2000-2001 NIH BioMed/MU Research Council funded research leave & grant "Child stress and growth." Flinn, M. (PI), \$52,600/\$4,000.
- 1998-1999 MU Research Board, "Childhood stress in a rural Caribbean village" Flinn, M. (PI), Sattenspiel, L. (PI), \$39,226
- 1997-1999 Center for Field Research "Child stress and health" Flinn, M. (PI), Quinlan, R. (co-PI) \$24,000.
- 1992-1996 National Science Foundation, SBR-9205373, "Childhood stress in a rural Caribbean village" Flinn, M. (PI), \$184,072.
- 1993-1994 NIH BioMed/MU Research Council, funded research leave.
- 1990-1993 National Science Foundation, BNS-8920569, "Parental care and childhood stress in a rural Caribbean village" Flinn, M. (PI), \$70,848.
- 1989 National Science Foundation, Summer research methods fellowship.
- 1989 NIH BioMed/MU Research Council, "Parental care in a Caribbean village." Flinn, M. (PI), \$5,000
- 1988 NIH BioMed/MU Research Council, "Step parent/child relationships." Flinn, M. (PI), \$4,000
- 1986-1987 U. Michigan Museum of Natural History, Post-doctoral Fellowship.
- 1983-1986 Michigan Society of Fellows, Post-doctoral Fellowship.

Publications Notes: Total = 114; Google Scholar citation count = 1921; h-index=22.

- Flinn, M.V. & Ponzi, D. (2011 – in press). Hormonal mechanisms for regulation of aggression in human coalitions. *Human Nature*, 21(4),
- Flinn, M.V., Duncan, C., Quinlan, R.L., Leone, E.V., Decker, S.A. and Ponzi, D. (2011 – in press). Hormones in the wild: Monitoring the endocrinology of family relationships. *Parenting: Science and Practice*, 11(5),
- Walker, R.S., Hill, K., Flinn, M.V., & Ellsworth, R. (2011). Evolutionary history of hunter-gatherer marriage practices. *PLoS ONE*, 6(4), e19066. doi:10.1371/journal.pone.0019066
- Flinn, M.V. (2011 – invited). Biology of culture. In: From incest to indirect reciprocity. B. Crespi & K. Summers (eds.). Oxford: Oxford University press.

Publications cont.

- Flinn, M.V. & Noone, R. (2011 – in press). The evolution of hormonal mechanisms for human sociality. *Family systems*, 8(2),
- Flinn, M.V., Nepomnaschy, P., Muehlenbein, M.P., & Ponzi, D. (2011). Evolutionary functions of early social modulation of hypothalamic-pituitary-adrenal axis development in humans. *Neuroscience and Biobehavioral Reviews*, 35(7), 1611-1629.
- Decker, S. & Flinn, M.V. (2011). Parenting styles and gender-linked drinking behaviors in Dominica. *Ethos*, 39 (2), 189-210.
- Flinn, M.V. (2011). Evolutionary anthropology of the human family. Oxford handbook of evolutionary family psychology, C. Salmon & T. Shackelford (Eds.), chapter 2, pp. 12-32. Oxford: Oxford University Press.
- Muehlenbein, M. & Flinn, M.V. (2011). Pattern and process of human life history evolution. In: Oxford handbook of life history, T. Flatt & A. Heyland (Eds.), chapter 23, pp. 153-168. Oxford: Oxford University Press.
- Walker, R.S., Flinn, M.V., & Hill, K. (2010). The evolutionary history of partible paternity in lowland South America. *Proceedings of the National Academy of Sciences* 107(45), 19195-19200.
- Flinn, M.V. (2010a). Evolution is not egalitarian. *Current Anthropology*, 51(1), 103-105.
- Flinn, M.V. (2010b). Social inequalities, family relationships, and child health. In: Biosocial research contributions to understanding family processes and problems, A. Booth, S. McHale, & N. Landale (Eds.), chapter 14, pp. 205-220. New York: Springer-Verlag.
- Vigil, J., Geary, D., Granger, D., & Flinn, M.V. (2010). Sex differences in salivary cortisol, alpha-amylase, and psychological functioning following hurricane Katrina. *Child Development*, 81(4), 1227-1284.
- Flinn, M.V. (2010c). Evolutionary biology of hormonal response to social challenge in the human child. In Human Evolutionary Biology, M.P. Muehlenbein (Ed.), Chapter 24, pp. 405-424. Cambridge: Cambridge University Press.
- Vigil, J., Carle, A.C., Geary, D., Granger, D., Flinn, M.V., & Pendleton, P. (2009). Maternal correlates of children's stress functioning following a major natural disaster. *Journal of Child and Adolescent Trauma*, 2(4), 287-296.
- Nepomnaschy, P., Vitzhum, V., & Flinn, M.V. (2009). Evolutionary endocrinology: integrating proximate mechanisms, ontogeny, and evolved function. *American Journal of Human Biology* 21(6), 728-730.
- Flinn, M.V. (2009). Are cortisol profiles a stable trait during child development? *American Journal of Human Biology* 21(6), 769-771.
- Flinn, M.V., Muehlenbein, M.P., & Ponzi, D. (2009). Social endocrinology of the human child. *Behavioral & Brain Sciences*, 32(1), 27-28.

Publications cont.

- Flinn, M.V. & Leone, D.V. (2009). Alloparental care and the ontogeny of glucocorticoid stress response among stepchildren. In: Alloparental care in human societies, G. Bentley & R. Mace (Eds.), chapter 13, pp. 212-231. Biosocial Society Series. Oxford: Berghahn.
- Nepomnaschy, P. & Flinn, M.V. (2009). Early life influences on the ontogeny of neuroendocrine stress response in the human child. In: The endocrinology of social relationships, P. Gray & P. Ellison (Eds.), chapter 16, pp. 364-382. Cambridge, MA: Harvard University Press.
- Flinn, M.V. (2008). Why words can hurt us: Social relationships, stress, and health. In: Evolutionary medicine and health, W. Trevathan, E.O. Smith, & J. McKenna (Eds.) Chapter 13, pp. 247-258 + refs. Oxford: Oxford University Press.
- Flinn, M.V. & Alexander, R.D. (2007). Runaway social selection. In: The evolution of mind, S.W. Gangestad & J.A. Simpson (Eds.), pp. 249-255. New York: Guilford Press.
- Flinn, M.V. & Coe, K. (2007). The linked red queens of human cognition, reciprocity, and culture. In: The evolution of mind, S.W. Gangestad & J.A. Simpson (Eds.), pp. 339-347. New York: Guilford Press.
- Flinn, M.V., Quinlan, R.J., Ward, C.V., & Coe, M.K. (2007). Evolution of the human family: Cooperative males, long social childhoods, smart mothers, and extended kin networks. In: Family relationships, C. Salmon & T. Shackelford (Eds.) Chapter 2, pp. 16-38. Oxford: Oxford University Press.
- Flinn, M.V. (2006a). Evolution and ontogeny of stress response to social challenge in the human child. *Developmental Review*, 26, 138-174.
- Flinn, M.V. (2006b). Evolution of stress response to social-evaluative threat. In: Oxford handbook of evolutionary psychology, R. Dunbar & L. Barrett (Eds.), Chapter 20, pp. 272-296. Oxford: Oxford University Press.
- Flinn, M.V. (2006c). Cross-cultural universals and variations: The evolutionary paradox of informational novelty. *Psychological Inquiry*, 17(2), 118-123.
- Flinn, M.V. & Leone, D.V. (2006). Early trauma and the ontogeny of glucocorticoid stress response in the human child: Grandmother as a secure base. *Journal of Developmental Processes*, 1(1), 31-68.
- Flinn, M.V., Geary, D.C. & Ward, C.V. (2005). Ecological dominance, social competition, and coalitionary arms races: Why humans evolved extraordinary intelligence. *Evolution and Human Behavior*, 26(1), 10-46.
- Flinn, M.V., Ward, C.V., & Noone, R. (2005). Hormones and the human family. In: Handbook of evolutionary psychology, D. Buss (Ed.), pp. 552-580. New York: Wiley.
- Flinn, M.V. & Ward, C.V. (2005). Evolution of the social child. In: Origins of the social mind: Evolutionary psychology and child development, B. Ellis & D. Bjorklund (Eds.), chapter 2, pp. 19-44. London: Guilford Press.
- Quinlan, R.J., Quinlan, M.B., & Flinn, M.V. (2005). Local resource enhancement & sex-biased breastfeeding in a Caribbean community. *Current Anthropology*, 46(3), 471-480.

Publications cont.

- Quinlan, R.J. & Flinn, M.V. (2005). Kinship, sex & fitness in a Caribbean community. *Human Nature*, 16(1), 32-57.
- Flinn, M.V. (2004). Culture and developmental plasticity: Evolution of the social brain. In: Evolutionary perspectives on child development. K. MacDonald & R.L. Burgess (Eds.), chapter 3, pp. 73-98. Thousand Oaks, CA: Sage.
- Ward, C.V., Flinn, M.V., & Begun, D. (2004). Body size and intelligence in hominoid evolution. In: The evolution of thought: Evolutionary origins of great ape intelligence. A.E. Russon & D.R. Begun (Eds.), pp. 335-349. Cambridge: Cambridge University Press.
- Quinlan, R.J. & Flinn, M.V. (2003). Intergenerational transmission of conjugal stability. *Journal of Comparative Family Studies*, 34(4), 569-584.
- Flinn, M.V. & England, B.G. (2003). Childhood stress: endocrine and immune responses to psychosocial events. In: Social & cultural lives of immune systems, J.M. Wilce (Ed.), pp. 107-147. London: Routledge press.
- Quinlan, R.J., Quinlan, M.B., & Flinn, M.V. (2003). Parental investment & age at weaning in a Caribbean village. *Evolution and Human Behavior*, 24(1), 1-17.
- Decker, S.A., Flinn, M.V., England, B.G., & Worthman, C. (2003). Cultural congruity and the cortisol stress response among Dominican men. In: Social & cultural lives of immune systems, J.M. Wilce (Ed.). London: Routledge press.
- Flinn, M.V. & Bluedorn, A.C. (2002). The evolution of times. *Current Anthropology*, 43(S4), 117-119.
- Geary, D.C. & Flinn, M.V. (2002). Sex differences in behavioral and hormonal response to social threat. *Psychological Review*, 109(4), 745-750.
- Wagner, J.D., Flinn, M.V., & England, B.G. (2002). Hormonal response to competition among male coalitions. *Evolution and Human Behavior*, 23(6), 437-442.
- Geary, D.C. & Flinn, M.V. (2001). Evolution of human parental behavior and the human family. *Parenting: Science and Practice*, 1 (1&2), 5-61.
- Flinn, M.V. & Altemeier, W.A. (2000). Why do we have IgE-mediated immediate hypersensitivity? *Pediatric Annals*, 29(12), 731.
- Flinn, M.V., Leone, D.V., & Quinlan, R.J. (1999). Growth and fluctuating asymmetry of stepchildren. *Evolution and Human Behavior*, 20(6), 465-480.
- Flinn, M.V. (1999). Family environment, stress, and health during childhood. In: Hormones, health, and behavior, C. Panter-Brick & C. Worthman (Eds.), pp. 105-138. Cambridge: Cambridge University press.
- Flinn, M.V., Baerwald, C., Decker, S.A., & England, B.G. (1998). Evolutionary functions of neuroendocrine response to social environment. *Behavioral & Brain Sciences*, 21, 372-374.
- Flinn, M.V. & England, B.G. (1997). Social economics of childhood glucocorticoid stress response and health. *American Journal of Physical Anthropology*, 102(1), 33-53.

Publications cont.

- Flinn, M.V. (1997). Culture and the evolution of social learning. *Evolution and Human Behavior*, 18(1), 23-67.
- Flinn, M.V., Quinlan, R.J., Turner, M.T., Decker, S.D., & England, B.G. (1996). Male-female differences in effects of parental absence on glucocorticoid stress response. *Human Nature*, 7(2), 125-162.
- Flinn, M.V. & England, B.G. (1995). Childhood stress and family environment. *Current Anthropology*, 36(5), 854-866.
- Flinn, M.V., Tedeschi, D., Quinlan, R.J., Decker, S.D., Picha, P., Sutter, R., & Turner, M.T. (1994). Evolution and culture turf wars: history, mind, and/or ecology? *Journal of Anthropological Research*, 50, 327-333.
- Flinn, M.V. (1993). Black box mechanisms. *Behavioral & Brain Sciences* 16(2), 293.
- Flinn, M.V. (1992). Paternal care in a Caribbean village. In: Father-child relations: Cultural and biosocial contexts, B. Hewlett (Ed.), pp. 57-84. Hawthorne, NY: Aldine de Gruyter.
- Flinn, M.V. (1989). Household composition and female reproductive strategies. In: Sexual and reproductive strategies, A. Rasa, C. Vogel & E. Voland (Eds.), pp. 206-233. London: Chapman and Hall.
- Flinn, M.V. (1988a). Mate guarding in a Caribbean village. *Ethology & Sociobiology*, 9(1), 1-28.
- Flinn, M.V. (1988b). Parent-offspring interactions in a Caribbean village: daughter guarding. In: Human reproductive behaviour, L. Betzig, M. Borgerhoff Mulder & P. Turke (Eds.), pp. 189-200. Cambridge: Cambridge University Press.
- Flinn, M.V. (1988c). Step and genetic parent/offspring relationships in a Caribbean village. *Ethology and Sociobiology*, 9(6), 335-369.
- Flinn, M.V. (1987). Resources, reproduction, and mate competition in human populations. *Behavioral and Brain Sciences* 10(3), 305-307.
- Flinn, M.V. (1986). Correlates of reproductive success in a Caribbean village. *Human Ecology*, 14(2), 225-243.
- Flinn, M.V. & Low, B.S. (1986). Resource distribution, social competition, and mating patterns in human societies. In: Ecological aspects of social evolution, D. Rubenstein & R. Wrangham (Eds.), pp. 217-243. Princeton NJ: Princeton University Press.
- Flinn, M.V. (1985). How can evolutionary theory help explain inheritance practices? *Behavioral and Brain Sciences* 8(4), 673-675.
- Flinn, M.V. (1983). Resources, mating, and kinship: the behavioral ecology of a Trinidadian village. Ph.D. thesis, Department of Anthropology, Northwestern University. Ann Arbor: University Microfilms.
- Flinn M.V. & Alexander, R.D. (1982). Culture theory: the developing synthesis from biology. *Human Ecology*, 10, 383-400.

Publications cont.

Flinn, M.V. (1981). Uterine and agnatic kinship variability. In: Natural selection and social behavior: recent research and new theory, R.D. Alexander & D.W. Tinkle (Eds.), pp. 439-475. New York: Blackwell Press.

Chagnon, N.A., Flinn, M.V., & Melancon, T. (1979). Sex ratio variations among the Yanomamo. In: Evolutionary biology and human social behavior: an anthropological perspective, N.A. Chagnon & W.G. Irons (Eds.), pp. 290-320. Boston: Duxbury Press.

Other publications (abstracts, commentaries & reviews – mostly peer reviewed)

Flinn, M.V., Walker, R.S., & Woo, S-K. (2011). Review of: *Hadza* by Frank Marlowe. *Human Nature*, 21(3)

Flinn, M.V. (2011). Review of: *Formative experiences* edited by C. Worthman, et al. *American Journal of Human Biology* 23(3), 429.

Ward, C.V., & Flinn, M.V. (2009). Smart mothers, female social power and the evolution of human intelligence. *2009 AAAS annual meeting program*, 233.

Decker, S.D., Flinn, M.V., Mann, R., Leone, D.V., Gay, J., & Devito, J. (2009). Sex differences in the effects of childhood maternal “overprotectiveness” on adult alcohol and tobacco consumption and body composition in a rural Dominican village. *American Journal of Human Biology* 21(2), 250-251.

Gregor, T., Gross, D.R., Demarest, A.A., Beckerman S., Ehrenreich, J.D., Ember, C.R., Ember, M., Raybeck, D., Robarchek, C., Irons, W, Boster, J., Barkow, J.H., Flinn, M.V., Holloway, R.L., Hrdy, D.B. MD, Hrdy, S.B., Kronenfeld, D.B., Manson, J.H., Sugiyama, L.S., & Katz, S.L. MD (2009). Referendum on Darkness in El Dorado and danger to immunization campaigns. *Anthropology News*, 44(7), 3-11.

Flinn, M.V. (2008). Review of: *Human biology of Afro-Caribbean populations* by L. Madrigal. *American Anthropologist* 110(2), 266-267.

Flinn, M.V., Ponzi, D, & Geary, D.C. (2008). Male-female differences in hormonal responses to social events during middle childhood. *Abstracts of the American Anthropological Association Meetings 2008*, 27.

Flinn, M.V. (2008). Are cortisol profiles a stable trait throughout child development? *American Journal of Human Biology* 20(2), 7.

Flinn, M.V. (2007). Evolution and ontogeny of hormonal stress responses to social challenges. *Society for Research in Child Development meetings abstracts 2007*.

Flinn, M.V. (2005). Temper tantrums: Display or dysfunction? *American Journal of Human Biology* 16, 265.

Flinn, M.V. (2005). Temper tantrums: Adaptation or developmental by-product? *Human Behavior and Evolution Society Conference Abstracts 2005*, 56.

Flinn, M.V. & England, B.G. (2004). Are there sensitive periods in ontogeny of stress response? *American Journal of Physical Anthropology Suppl.* 38, 95-96.

Other publications (abstracts, commentaries & reviews) cont.

- Leone, D.V. & Flinn, M.V. (2004). Is fluctuating asymmetry a stable trait? *American Journal of Physical Anthropology Suppl.* 38, 134-135.
- Nyberg, C. & Flinn, M.V. (2004). Spatial distribution of childhood morbidity patterns in a Dominican village. *American Journal of Physical Anthropology Suppl.* 38, 154.
- Flinn, M.V. & England, B.G. (2004). Are there critical periods in ontogeny of stress response and immune function? *American Journal of Human Biology* 16, 203.
- Leone D.V., Quinlan, R.J., Hayden, R., Stewart, J., & Flinn, M.V. (2004). Long-term implications for growth of prenatal and early postnatal environment. *American Journal of Human Biology* 16, 212-213.
- Quinlan, R.J., Flinn, M.V., Leone, D.V., Quinlan, M.B., Gangestad, S.J., Thornhill, R., & England, B.G. (2003). Tradeoffs between indirect parental investment and direct childcare: Long-term effects of household production and breastfeeding duration on children's cortisol levels, fluctuating asymmetry, and growth. *Human Behavior and Evolution Society Conference Abstracts 2003*, 73.
- Flinn, M.V., Noone, R., & England, B.G. (2002). Longitudinal patterns of stress, family environment, and child health in a rural Caribbean village. *Abstracts of the American Anthropological Association Meetings 2002*, 145.
- Flinn, M.V., Noone, R., & England, B.G. (2002). Longitudinal patterns of cortisol reactivity, father absence, and maternal behavior in a rural Caribbean village. *Proceedings of the Human Behavior and Evolution Society 2002*, 51.
- Wagner, J.D., Flinn, M.V., Gangestad, S.G., Thornhill, R., & England, B.G. (2001). Testosterone and cortisol response to competition between male coalitions. *Human Behavior and Evolution Society Conference Abstracts 2001*, 197. Prize winner.
- Flinn, M.V. (2001). 100 years of biology and culture. *Abstracts of the American Anthropological Association Meetings 2001*, 164. Plenary session talk.
- Worthen C.C., Flinn, M.V., Leone D.V., Quinlan, R.J., & England, B.G. (2001). Parasite load, growth, fluctuating asymmetry, and stress hormone profiles among children in a rural Caribbean village. *American Journal of Physical Anthropology Suppl.* 32, 167.
- Ward, C.V. & Flinn, M.V. (2001). How human intelligence evolved. *American Journal of Physical Anthropology Suppl.* 32, 159.
- Leone, D.V., Quinlan, R.J., Quinlan, M.B., Worthen, C.C., Flinn, M.V. & England, B.G. (2001). Duration of breastfeeding, parasite load, growth, fluctuating asymmetry, and cortisol profiles. *American Journal of Physical Anthropology Suppl.* 32, 97-98.
- Wagner, J.D., Flinn, M.V., Gangestad, S.G., Thornhill, R., & England, B.G. (2001). Testosterone and cortisol response to competition within and between male coalitions. *American Journal of Physical Anthropology Suppl.* 32, 157-158.
- Gangestad, S.W., Thornhill, R., Quinlan, R.J., & Flinn, M.V. (2000). Men's fluctuating asymmetry, attractiveness, and reproduction in a rural Caribbean village. *Human Behavior and Evolution Society Meetings Conference Abstracts 2000*, 43.

Other publications (abstracts, commentaries & reviews) cont.

- Flinn, M.V., Leone, D.V., & England, B.G. (1999). Fluctuating asymmetry, stress, and health among children in a Caribbean village. *American Journal of Physical Anthropology Suppl.* 27, 103-104.
- Flinn, M.V. (1997). Glucocorticoid stress response, family environment, immune function, and illness. *Abstracts of the Annual Meetings Society for Medical Anthropology 1997*, 23.
- Flinn, M.V. & England, B.G. (1997). Individual differences in endocrine and immune response to stress among children in a rural Caribbean village. *Abstracts of the American Anthropological Association Meetings 1997*.
- Decker, S.A., Flinn, M.V., & England, B.G. (1997). Social support, affluence, and stress among adult male Dominican horticulturalists. *Abstracts of the American Anthropological Association Meetings 1997*, 185.
- Flinn, M.V., Turner, M.T., & England, B.G. (1996). Stress, immune function, and health among children in a Caribbean village. *American Journal of Physical Anthropology Suppl.* 22, 105.
- Flinn, M.V. & England, B.G. (1996). Family environment, glucocorticoid stress response, and health among children in a rural Caribbean village. *Abstracts of the American Anthropological Association Meetings 1996*, 178.
- Flinn, M.V., Turner, M.T., & England, B.G. (1996). Family environment, stress response, and health among children in a Caribbean village. *Human Behavior and Evolution Society Meetings 8th Annual Conference Abstracts* 8, 47.
- Turner, M., Flinn, M.V. & England, B.G. (1995). Mother-infant glucocorticoid stress response in a Caribbean village. *American Journal of Physical Anthropology Suppl.* 20, 191.
- Flinn, M.V., Decker, S.D., Tedeschi, D., Turner, M.T., Quinlan, R.J., Baerwald, C., & England, B.G. (1995). Life history variation of male hormone profiles in a rural Caribbean village. *American Journal of Human Biology* 7, 122.
- Flinn, M.V., Quinlan, M., Quinlan, R.J., Turner, M.T., & England, B.G. (1995). Glucocorticoid stress response, immune function, and illness among children in a rural Caribbean village. *American Journal of Physical Anthropology Suppl.* 20, 89.
- Flinn, M.V. & England, B.G. (1994). Socioeconomic conditions affecting child glucocorticoid stress response. *American Journal of Physical Anthropology Suppl.* 18, 87-88.
- Decker, S.A., Flinn, M.V., & England, B.G. (1994). Interactions of social status with daily cortisol and testosterone in male Caribbean villagers. *American Journal of Physical Anthropology Suppl.* 18, 77-78.
- Flinn, M.V. (1993). Glucocorticoid response profiles of "at-risk" children in a Dominican village. *Proceedings of the Society for Research in Child Development 1993*: 43.
- Flinn, M.V. & England, B.G. (1993). Glucocorticoid stress response, immune function, and disease among children in a rural Caribbean village. *American Journal of Physical Anthropology Suppl.* 16, 87.

Other publications (abstracts, commentaries & reviews) cont.

- Flinn, M.V., England, B.G. & Beer, T. (1992). Health condition and corticosteroid stress response among children. *American Journal of Physical Anthropology Suppl.* 14, 73.
- Flinn, M.V. & England, B.G. (1992). Daily variations in child glucocorticoid stress response. *Proceedings of the International Society of Psychoneuroendocrinology XXIII*: 97.
- Flinn, M.V. (1992). Evolution and function of the human stress response. Plenary talk, annual meetings of the Human Behavior and Evolution Society, Albuquerque, NM. *Proceedings of the Human Behavior and Evolution Society (1992)*.
- review: Quale, G.R. (1992). Families in context. *Journal of Marriage & Family* 56, 234-235.
- Flinn, M.V. & England, B.G. (1991). Daily variations in stress in a rural Caribbean village as measured by radioimmunoassay of salivary cortisol. *American Journal of Physical Anthropology Suppl.* 12, 89.
- Flinn, M.V. & Durbrow, E. (1990). Factors associated with child stress as measured by RIA of cortisol levels in saliva. *American Journal of Physical Anthropology* 81, 222.
- Flinn, M.V. & Sattenspiel, L. (1990). Commentary on: Explaining biased sex ratios in human populations. *Current Anthropology* 31, 37-38.
- review: Wynne-Edwards, V.C. 1986. Evolution through group selection. *American Anthropologist* 89, 728-729.
- review: Hausfater, G. & Hrdy, S.B. 1984 (Eds.) Infanticide. *Anthropological Quarterly* 58(3), 130-32.
- review: Crawford, M. 1984 (Ed.) Current developments in anthropological genetics, Vol. 3: Black Caribs. *Quarterly Review of Biology* 60, 556-57.
- review: Dawkins R. 1982 The extended phenotype. *Ethology and Sociobiology* 5, 85-87.
- review: VanParijs, P. 1981 Evolutionary explanation in the social sciences. *Human Ecology* 10(3), 436-38.
- review: Montagu, A. 1980 (Ed.) Sociobiology examined. *American Journal of Sociology* 89 (2), 475-76.

Pending or planned research

Flinn, M. (PI); A. Abu Dalou (co-PI). "Childhood stress and health among Palestinian refugees in Jordan." 5/01/11 – 5/01/12. National Science Foundation (High risk research), \$13,800. To be submitted 11/01/2011.

This project is a comparative study of psychological trauma, cortisol regulation, and health among children living in Palestinian refugee settlements and traditional rural communities.

A. Abu Dalou (PI); Flinn, M. (co-PI). "Childhood stress and health among Palestinian refugees in Jordan." 7/01/11 – 7/01/12. King Hussein Institute for Biotechnology and Cancer, JD (Jordanian Dinar) 50,000/year for three years. To be re-submitted 6/05/2011.

This project is a comparative study of psychological trauma, cortisol regulation, and health among children living in Palestinian refugee settlements and traditional rural communities.

Pending or planned research cont.

Flinn, M. (PI); Other senior personnel: K. Coe, M. Kerr, M.D., P. Nepomnaschy, R. Noone. "Kin support, maternal depression, and childhood stress" 12/30/2011 - 12/29/2014 30% National Science Foundation (Human and Social Dynamics) SBE #0527654, \$749,995. To be submitted 11/18/11.

This project will investigate relations among maternal depression, social support from kin, and child stress response in (1) Bwa Mawego, Dominica, (2) Yuma, Arizona, and (3) Santa Rosa, Guatemala.

Flinn, M. (PI); D. Leone (PI) & S. Gangestad (PI) "Is fluctuating asymmetry a stable trait?" 12/1/2011 - 12/31/2012 10% National Science Foundation (Joint application to Biological and Cultural Anthropology programs) \$88,000. To be submitted 11/15/2011.

This project is a longitudinal study of child growth in Bwa Mawego, Dominica.

Flinn, M. (PI) "Sensitive periods in the ontogeny of glucocorticoid stress response" 12/1/2011 - 6/31/2013 30% National Science Foundation (Biological and Cultural Anthropology programs) \$218,000. To be submitted 11/15/2011.

This project will continue a longitudinal study of child glucocorticoid stress response in a rural Dominican community. The objective is to better understand how the developmental timing of events in a child's early environment affect HPA stress response.

Flinn, M. (PI) "Endocrinology of grandparenting" 6/31/2011 - 6/31/2012 30% UM Research Council. \$7,000. Submitted 03/15/2011.

This project will study the hormonal correlates of interaction between grandparents and grandchildren in a rural Dominican community. The objective is to better understand hormonal mechanisms for bonding between grandparents and grandchildren, and how grand-relationships affect child psychological and physical health.

Popular press (selected major pieces)

"20 Years of Biocultural Research in Dominica: The Bwa Mawego Child Stress Project" (M. V. Flinn, R.J. Quinlan, & D.V. Leone) *Anthropology News*, Dec 2007.

"Down in Dominica" *Mizzou Magic* Fall 2006.

"Verbal stressors lead to elevated stress levels, illness" (IDC) *Infectious Diseases in Children* November 2005, p. 36-37.

"Trouble in Paradise" (M. Small) *New Scientist* December 16, 2000, p. 34-38.
National Public Radio, Todd Mundt show, September 19, 2000

"Family Matters" (M. Small) *Discover* August, 2000, p. 66-71.

"Coping with Paradise" *Earthwatch* June 1999, p. 14-21.

"Dominica: The Cortisol Test" *The Sunday-Times (London)* 06 01 1997

Former graduate student advisees

Seamus Decker, Assistant Professor, University of Massachusetts

Eric Durbrow, Assistant Professor (former), Pennsylvania State University

David Leone, Assistant Professor, University of North Carolina, Greensboro

Robert Quinlan, Associate Professor, Washington State University

Presentations (recent major talks)

- Arts & Sciences Dean's invited lecture in Social Sciences, Oklahoma State University, Stillwater, OK, Nov 12, 2010.
- Invited workshop presenter, Coalitions and alliances (NSF sponsored), National Institute for Mathematical & Biological Synthesis, Knoxville, TN, November 6-7, 2010.
- Invited speaker, Dedication ceremony and workshop, Center for the Study of the Family, (SRCF and SSCRF sponsored) University of Toronto, Toronto, Ontario, Canada. October 18-19, 2010.
- Invited plenary speaker, Conference on evolutionary perspectives in human sciences, Kone Foundation, Helsinki & Turku, Finland, May 21-23, 2010.
- Invited plenary speaker, Family studies annual meetings, Washington DC, April 12, 2010.
- Invited workshop presenter, Coalitions and alliances (NSF sponsored), National Institute for Mathematical & Biological Synthesis, Knoxville, TN, February 4-6, 2010.
- Invited speaker, conference on Adolescent risk (School of Public Health & Evolution Institute sponsored), University of Arizona, Tucson, AZ, November 7-8, 2009.
- Invited speaker, conference on Biosocial research contributions to understanding family processes and problems (NICCHD sponsored), Pennsylvania State University, State College, PA, October 24-25, 2009.
- Invited speaker, Dept of Anthropology, Indiana University, Bloomington, IN, May 8, 2009.
- Invited speaker, Dept of Anthropology, University of California, Santa Barbara, CA, April 17, 2009.
- Spring keynote lecturer, School of Public Health, University of Arizona, Tucson, AZ, April 15, 2009
- Invited workshop presenter, Coalitions and alliances (NSF sponsored), NIMBios University of Tennessee, Knoxville, TN, April 4-6, 2009.
- Invited speaker, Tanner conference on The Evolution of Human Aggression, University of Utah, Salt Lake City, UT, February 25-26, 2009.
- Co-presenter (with Carol V. Ward), symposium on Evolution of the Human Female, AAAS annual meetings, Chicago, IL, February 13, 2009.
- Invited speaker, symposium on Middle Childhood, annual meetings of the American Anthropological Association, San Francisco, CA November 19, 2008.
- Invited speaker, conference on Stress Reactivity and the Development of Immunocompetence in Children (APA sponsored), UMDNJ-Robert Wood Johnson Medical School, New Brunswick, NJ November 6-7, 2008.
- Invited speaker, conference on Evolutionary Perspectives on Warfare, Institute of Cognitive and Decision Sciences, University of Oregon, Eugene, OR, October 17, 2008.
- Chair and presenter, Hormones symposium, Human Behavior and Evolution Society annual meetings, Kyoto, Japan, June 7, 2008.
- Keynote speaker, European Human Behavior & Evolution society annual meetings, Montpellier, France, April 3, 2008.
- Co-chair and presenter, Plenary symposium, Human Biology Association annual meetings, Columbus, OH, April 9, 2008.
- Invited symposium speaker, Society for Research on Child Development annual meetings, Boston, MA, April 5, 2007.
- Distinguished Scientist Lecture, Family Systems, Washington, DC, November 11, 2005.
- Plenary symposium speaker, Human Biology Association annual meetings, Milwaukee, WI, April 5, 2005.
- Plenary speaker, Biosocial Society meetings, London, U.K., May 7, 2005.

Presentations cont.

Keynote speaker, Stress conference, University of Michigan. October 11, 2003

Plenary session talk, 100 years of biology and culture, American Anthropological Association Meetings Washington, DC, December 3, 2001.

Keynote speaker, conference on Stress and Children's Health, National Children's Hospital, Utrecht, Netherlands, March 5-9, 1999.

Numerous presentations at annual meetings of professional societies, including the American Anthropological Association, American Association of Physical Anthropologists, Human Behavior and Evolution Society, Human Biology Association, International Society of Psychoneuroendocrinology, & the Society for Research on Child Development.

Teaching experience (lecture and seminar classes)

Note: readings and research courses not included; fieldwork taught summer 1988 - 2008

At the University of Missouri:

Spring 2011 Anthropology 1500 Monkeys, apes, and humans (WI)

Anthropology 4580/7580 Evolutionary medicine

Fall 2010 Anthropology 4990 Capstone seminar (Writing Intensive - WI)

Anthropology 4350/7350 Psychological anthropology

Spring 2010 Anthropology 2580 Evolution of human sexuality (WI)

Anthropology 4580/7580 Evolutionary medicine

Fall 2009 Anthropology 8687 Culture dynamics seminar

Anthropology 4350/7350 Psychological anthropology

Spring 2009 Anthropology 1500 Monkeys, apes, and humans

Anthropology 4580/7580 Evolutionary medicine

Fall 2008 Anthropology 2580 Evolution of human sexuality

Anthropology 4350/7350 Psychological anthropology

Spring 2008 Anthropology 1500 Monkeys, apes, and humans

Anthropology 4580/7580 Evolutionary medicine

Fall 2007 Anthropology 2580 Evolution of human sexuality

Anthropology 4001/7001 Evolution of human intelligence

Winter 2007 Anthropology 1500 Monkeys, apes, and humans

Anthropology 4580 Evolutionary medicine

Fall 2006 Anthropology 2580 Evolution of human sexuality

Anthropology 8687 Cultural dynamics

Winter 2006 Psychological Sciences 3003 Evolutionary psychology

Psychological Sciences 4300 Animal behavior

Fall 2005 Psychological Sciences 2410 Child psychology

Winter 2005 Psychological Sciences 3003 Evolutionary psychology

Fall 2004 Psychological Sciences 2410 Child psychology

Winter 2004 Anthropology 170 Evolution of human sexuality

Anthropology 390 Capstone seminar (WI)

Fall 2003 Anthropology 60 Monkeys, apes, and humans

Anthropology 405 History of Anthropology

Winter 2003 Anthropology 390 Capstone seminar (WI)

Anthropology 462 Anthropology of childhood

Fall 2002 Anthropology 170 Evolution of human sexuality

Anthropology 405 History of Anthropology

Winter 2002 Anthropology 60 Monkeys, apes, and humans (WI)

Teaching experience (cont.)

Anthropology 320 Evolutionary medicine
Anthropology 462 Evolution of human intelligence
Fall 2001 Anthropology 170 Evolution of human sexuality
Anthropology 405 History of Anthropology
Fall 2000 – Winter 2001 research leave, research and readings courses
Winter 2000 Anthropology 60 Monkeys, apes, and humans (WI)
Anthropology 280 Senior seminar (writing intensive)
Fall 1999 Anthropology 170 Evolution of human sexuality
Anthropology 362/462 Cultural evolution/Seminar cultural dynamics
Winter 1999 Anthropology 60 Monkeys, apes, and humans (WI)
Anthropology 320 Evolutionary medicine
Fall 1998 Anthropology 1GH Introduction to anthropology (honors)
Anthropology 280 Senior seminar (writing intensive)
Winter 1998 Anthropology 1 Introduction to anthropology
Anthropology 170 Evolution of human sexuality
Fall 1997 Anthropology 60 Monkeys, apes, and humans
Anthropology 349 Evolutionary medicine
Winter 1997 Anthropology 60 Monkeys, apes, and humans (WI)
Anthropology 153 Cultural anthropology
Fall 1996 Anthropology 60 Monkeys, apes, and humans
Anthropology 349 Evolutionary medicine
Winter 1996 Anthropology 1 Introductory anthropology
Anthropology 60 Monkeys, apes, and humans
Fall 1995 Anthropology 1 Introductory anthropology
Anthropology 250 Human reproductive ecology
Winter 1995 Anthropology 1 Introductory anthropology
Anthropology 60 Monkeys, apes, and humans
Fall 1994 Anthropology 1 Introductory anthropology
Anthropology 250 Human reproductive ecology
Fall 1993-94 – research leave (NSF SBR 9205373), research and readings courses
Winter 1993 Anthropology 60 Monkeys, apes, and humans (WI)
Anthropology 250 Human reproductive ecology (Honors)(WI)
Fall 1992 Anthropology 1 Introductory anthropology
Anthropology 449 Current debates
Winter 1992 Anthropology 1 Introductory anthropology
Anthropology 60 Monkeys, apes, and humans (WI)
Fall 1991 Anthropology 60 Monkeys, apes, and humans (WI)
Anthropology 250 Human reproductive ecology (Honors)
Winter 1991 Anthropology 153 Cultural anthropology
Anthropology 436 Methods: Grant writing
Fall 1990 – on research leave (NSF BNS 8920569), research and readings
Winter 1990 Anthropology 250 Human reproductive ecology
Anthropology 369 Primate social behavior
Fall 1989 Anthropology 60 Monkeys, apes, and humans (WI)
Anthropology 310 Caribbean ethnography
Winter 1989 Anthropology 250 Human reproductive ecology
Anthropology 153 Cultural anthropology

Teaching experience (cont.)

Fall 1988	Anthropology 60	Monkeys, apes, and humans (WI)
	Anthropology 466	Bio-cultural anthropology
Winter 1988	Anthropology 250	Human reproductive ecology
	Anthropology 332	Comparative social organization
Fall 1987	Anthropology 60	Monkeys, apes, and humans
	Anthropology 153	Cultural anthropology

At the University of Michigan:

Winter 1986	Anthropology 160	Biological Anthropology (co-taught with R. Wrangham)
Fall 1985	Biology 494	Evolution & human behavior (co-taught with R. Alexander)
Winter 1985	Anthropology 962	Economic models of human behavior
	Anthropology 759	Human ecology seminar – <i>Homo erectus</i> (co-taught with K. Flannery, R. Rappaport, M. Wolpoff, & H. Wright)
Fall 1984	Biology 475	Evolution & human behavior (co-taught with R. Alexander)

Research interests

My current scientific interests include the disciplines of cultural anthropology, child development, and evolutionary human biology. My research questions involve three interrelated areas:

- (1) *Psychosocial stress* presents both an important medical problem and an evolutionary puzzle. Given the significant health costs associated with chronic physiological stress response, it is unclear why natural selection would have favored links between the psychological mechanisms that assess social challenges, and the neuroendocrine mechanisms that regulate stress physiology. My current research efforts in this area include an ongoing 22-year study of childhood stress, family relationships, and health in a rural Caribbean community by longitudinal monitoring of (a) hormone and immune function from saliva and urine samples, (b) ethnographic observation of child activities and social environment, and (c) medical histories, growth measures, and parasite exams.
- (2) *Family relationships* are a key component of human sociality. Extensive bi-parental care and multi-generational kin networks are distinctive human traits. My current interests involve using cross-cultural, ethnographic, and physiological techniques to analyze universal and adaptive variations of family and kin relationships and effects on child development. Currently our research team in Dominica is examining changes in hormones – cortisol, testosterone, prolactin, DHEA/S, oxytocin, and vasopressin – that are associated with affiliative relationships and interactions among parents and offspring, grandparents and grandoffspring, siblings, mates, and coalition partners. We are interested in the physiological mechanisms that underpin the unusual importance in humans of extended kin networks, paternal care, mate bonding, and male bonding including respect for each other's mating relationships. Understanding how the hormonal mechanisms for affiliation function in naturalistic conditions may provide new insights into the evolution of human sociality.
- (3) The *human brain* is an evolutionary paradox. It is huge, metabolically expensive, developmentally complex, and enables unusual cognitive abilities such as language, empathy, foresight, consciousness, and creativity. I am interested in how these aspects of the human brain evolved, based on a runaway process of social selection – including human family relationships – and a dynamic cultural information pool.