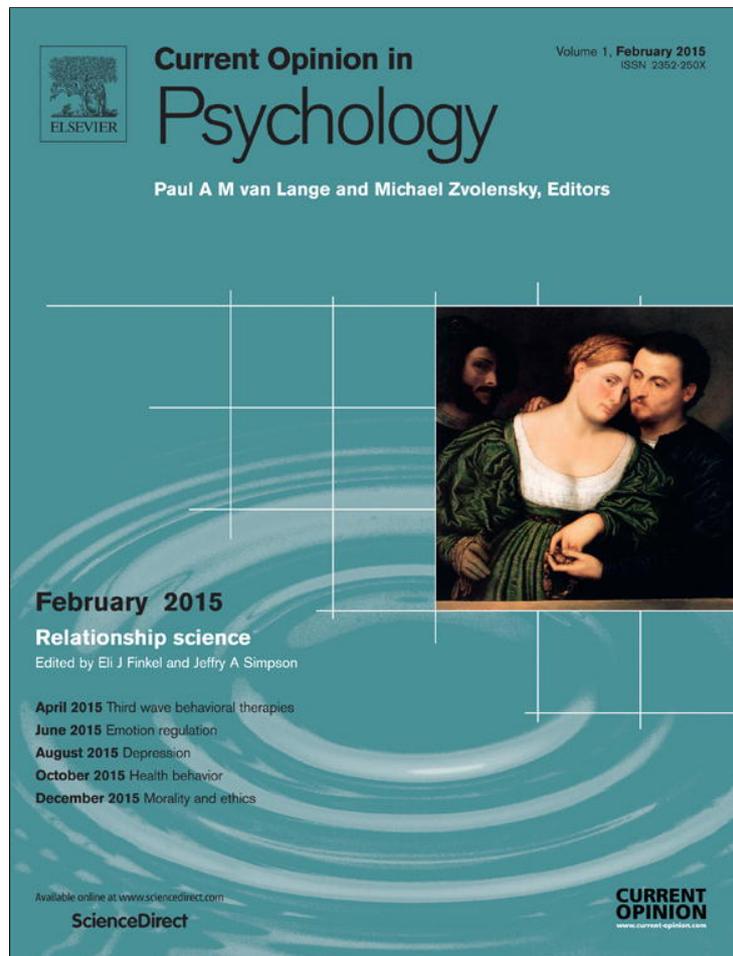


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Editorial overview: Relationship science

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For a complete overview see the [Issue](#)

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Eli J. Finkel is a professor at Northwestern University, with appointments in psychology and in the Kellogg School of Management. He earned his PhD from the University of North Carolina in Chapel Hill in 2001. He turns 40 this year and is alarmed by that fact. He likes broccoli, but not kale. He has kayaked through a snow squall in Antarctica, but he has never been to the Hamptons. Six out of ten grandmothers agree that he is 'cute.'

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Relationship science is a major bridge connecting the social, behavioral, and life sciences. It is a deeply theoretical discipline, one characterized by excellent cross-theoretical thinking and research. This inaugural issue of *Current Opinion in Psychology* showcases some of the newest discoveries in relationship science, discoveries which are beginning to tie together several allied fields. The articles in this special issue are organized around the three major theoretical perspectives that have helped to guide some of the best, most important, and most cutting-edge research currently being conducted in the science of relationships — interdependence theory, attachment theory, and various evolutionary theories. In this introduction, we offer a brief overview of each theoretical perspective and indicate how each article contributes to the development and/or integration of these theoretical perspectives.

Introduction

Close relationships are the fundamental building blocks of all societies, and, as is clear from the fine articles in this inaugural special issue of *Current Opinion in Psychology*, relationship science is a cornerstone discipline that is making good on its potential to integrate knowledge across diverse fields within the social, behavioral, and life sciences. This special issue is organized around the three most influential theoretical perspectives guiding relationships research today. In this introduction, we provide a brief synopsis of each theoretical perspective and clarify how each article addresses central principles and/or processes associated with specific theories.

Interdependence theory

Interdependence theory is the oldest of the three major theories in relationship science, dating back to Thibaut and Kelley's 1959 book *The Social Psychology of Groups* [1]. This seminal volume, and its 1978 successor [2], adapted principles from game theory [3,4] to provide an analysis of different types of interpersonal situations. Consider the outcome matrix on the left side of [Figure 1](#) [5]. Richard and Genevieve are the exhausted parents of a colicky eight-month-old boy, who has, after two tyrannical hours, finally gone down for a nap. Feeling shell-shocked, they collapse onto the couch, at which point they notice that the house looks like the aftermath of a typhoon. Genevieve expresses bewilderment about how a little creature can create so much chaos.

As depicted in the left side of [Figure 1](#), both of them want to sit on the couch while the other person cleans, which leaves them at an impasse. If Genevieve cleans while Richard recuperates on the couch, he experiences 4 units of utility, but she experiences — 8 units (lower-left quadrant), and the inverse is true if the roles are reversed (upper-right quadrant). Fortunately, these spouses love each other and value egalitarianism, and, with some mental effort, they can see what is best for them as a couple. The matrix on the left is called the *given matrix* because it is 'given' by the situation in light of the partners' gut-level preferences (the need to clean despite the shell-shock), whereas the matrix on the right is the *effective matrix* because it represents the partners' preferences after they have cognitively reconstrued the situation in terms of their collective, long-term interests.

The first two articles in this issue adopt an interdependence framework regarding relationship processes and functioning. [Fitzsimons and Finkel](#)

offer a new perspective on self-regulation, suggesting that goal pursuit is embedded within many social relationships. And [Pronk and Righetti](#) review evidence that people who experience strong (vs weak) executive control resources are more likely to engage in pro-relationship transformations of motivation.

Attachment theory

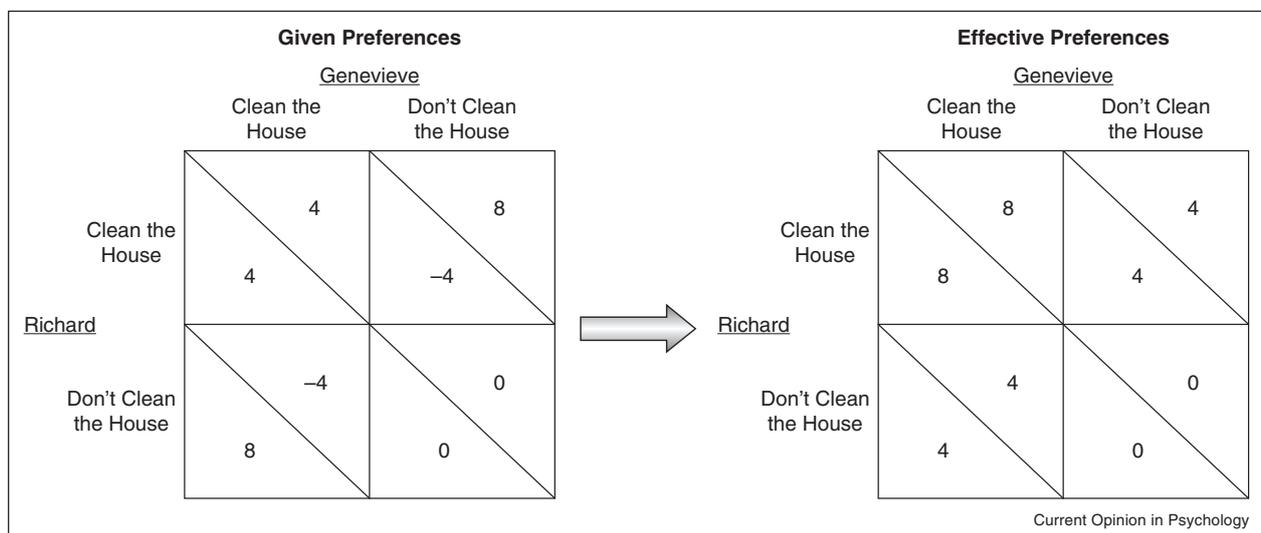
A second guiding theory in relationship science is attachment theory. According to Bowlby [6–8], humans evolved to form strong emotional bonds with their primary caregivers because doing so increased the probability of survival, especially during childhood. The strength of an attachment bond — which, in adulthood, is frequently with a romantic partner — is indexed by the degree to which an individual feels distressed when separated from the partner (his or her primary attachment figure), seeks proximity to the partner when upset, experiences emotional relief in the presence of the partner, and personally grows and develops with the partner’s sustained support [9].

Individuals develop different ways of perceiving and relating to significant others depending on how they have been treated in prior attachment relationships [10–12]. Securely attached people have received good care/support, which leads them to have positive views of themselves and others and motivates them to turn to significant others for comfort/support when distressed. Anxiously

attached people have received inconsistent care/support and worry that significant others do not really love and may eventually leave them. Consequently, they are vigilant to signs of possible rejection, which generates strong distress and dysfunctional behavior, especially in relationship-threatening situations. Avoidantly attached people have been rejected in the past and believe they cannot trust or depend on significant others. Thus, they suppress their needs for closeness/intimacy, become self-reliant, and withdrawal from significant others when they feel distressed. The typical activation and operation of these individual differences is shown in [Figure 2](#), which is adapted from Mikulincer and Shaver [13].

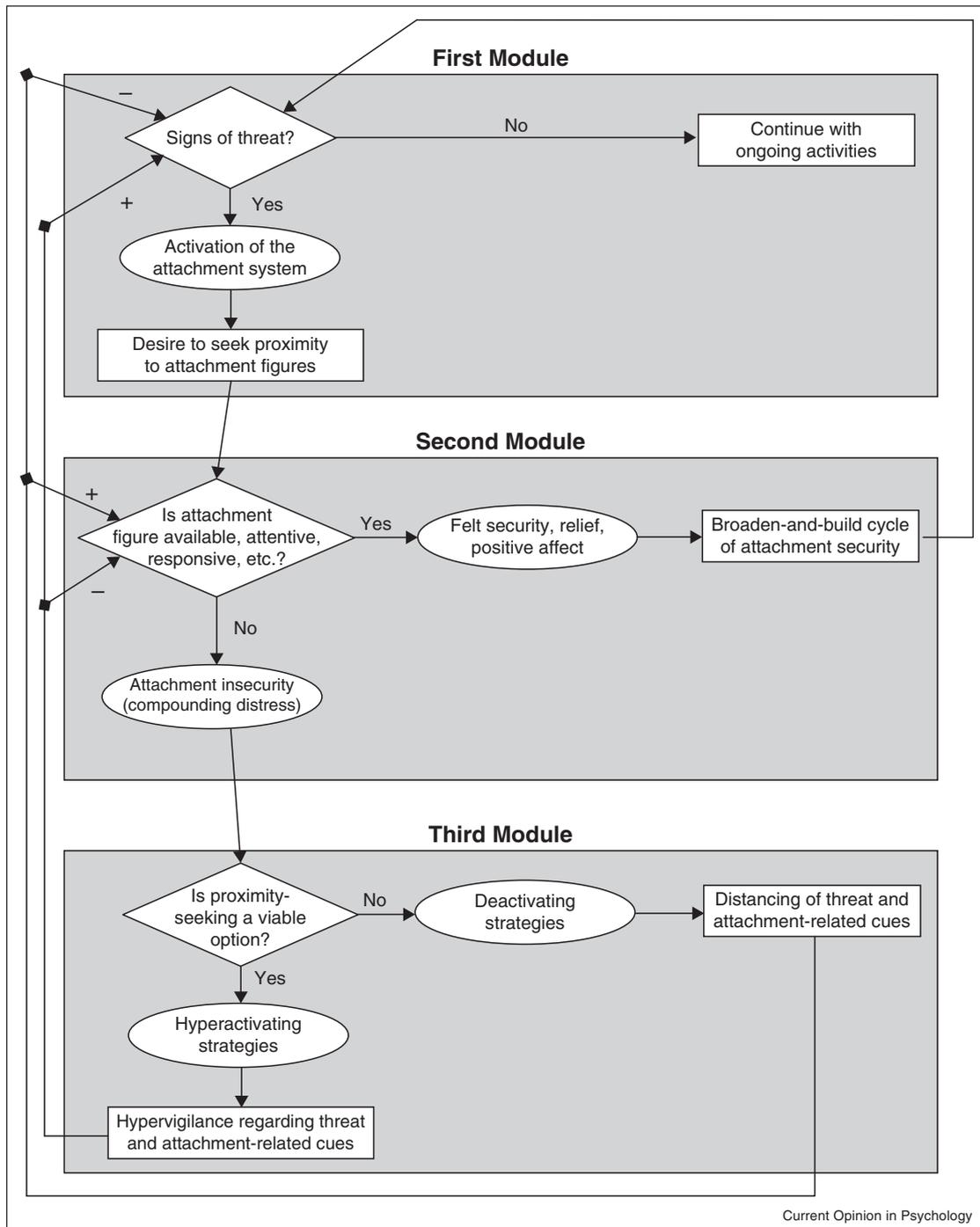
Four articles in this special issue adopt an attachment framework. [Mikulincer and Shaver](#) discuss how the experimental activation of security-enhancing representations has positive effects on emotion regulation, self and other appraisals, mental health, and prosocial actions. [Feeney and Collins](#) capitalize upon safe haven and secure base principles to present a model of how close relationships tend to promote personal thriving. [Birnbaum and Finkel](#) introduce a relationship stage model outlining the functional significance of sexual desire in relationship development. And [Pietromonaco and Powers](#) review likely physiological pathways and mediators of the connection between childhood attachment and adult attachment in predicting long-term health outcomes.

Figure 1



Illustrating the Outcome Matrix in Interdependence Theory. Note. The given matrix is on the left, and the effective matrix is on the right. In each cell of the matrices, the upper-right half represents Genevieve’s outcomes and the lower left half represents Richard’s outcomes. The process through which the individual reconstructs the given matrix to arrive at the effect matrix is called transformation of motivation. In this case, both partners have engaged in a generous transformation oriented toward maximizing the outcomes of the couple, which involves adding the numbers in the given matrix and applying those values to both partners’ outcomes in the effective matrix. For example, the upper-right cell takes the sum of 8 and –4 and applies that value to both partners’ outcomes in the effective matrix so both partners would experience 4 units of value in the upper right cell. Whereas the best course of action is ambiguous in the given matrix, the upper-left cell is clearly best in the effective matrix. Other transformations are possible; for example, if both partners wished to pursue a fairness-oriented approach that minimizes the differences between their outcomes, the upper-left or the lower-right cells in the given matrix would be best.

Figure 2



A Model of Attachment-System Activation and Functioning in Adulthood (adapted from Mikulincer & Shaver, 2003). Note: Cues of threat activate (turn on) the system. Secure individuals tend to perceive that their partners (attachment figures) will be available and responsive, so they experience greater security and less distress, which allows them to 'broaden-and-build' their relationships. Anxious individuals tend to be uncertain about whether their partners will be sufficiently available and responsive, but believe that proximity-seeking could produce greater partner responsiveness and therefore enact hyperactivating strategies. Avoidant people typically do not believe their partners will be available and responsive and do not view proximity-seeking as an option, which leads them to engage in deactivating strategies.

Evolutionary theories

Contrary to popular conceptions, there is no single ‘evolutionary theory’ of relationships; there are many that focus on different adaptive problems our ancestors faced, some of which are tied to specific life stages [14]. The central principle linking all evolutionary theories is Hamilton’s [15] inclusive fitness theory — that individuals should have been selected to possess traits and behaviors that typically increased the replication of their genes across generations, either directly (through their own reproduction) or indirectly (through the reproduction of their biological relatives). How this is accomplished depends on the nature and quality of the physical and social environments in which an individual develops and currently lives.

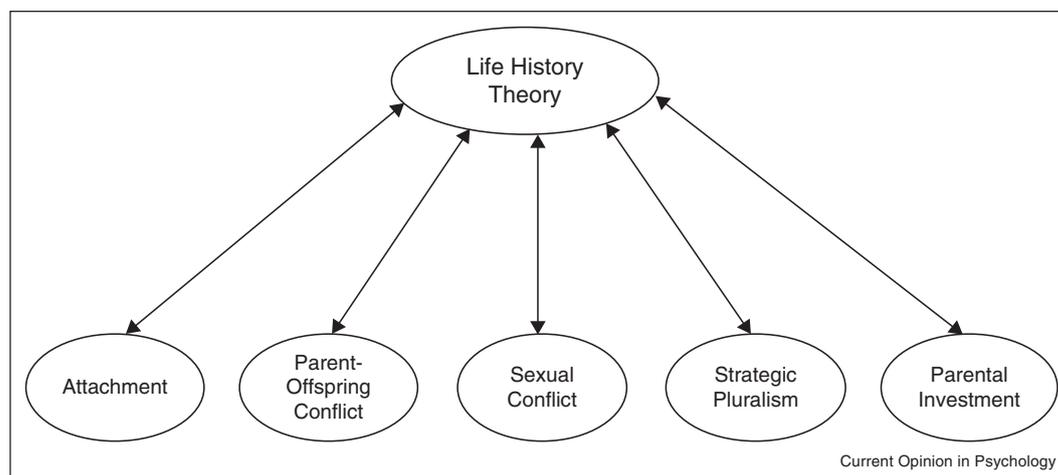
Evolutionary theories have a hierarchical structure (see Figure 3, which shows life history theory in relation to five middle-level theories relevant to relationship processes and functioning). Life history theory explains how individuals unconsciously strive to increase their inclusive fitness across the lifespan [23]. All organisms — including humans — must make trade-offs in how they allocate their limited time, effort, and resources to fitness-enhancing investments, such as investing in current versus future reproduction, quantity versus phenotypic quality of offspring, or more versus less parenting effort in a given child.

Three articles in this special issue adopt an evolutionary framework. Kenrick and Griskevicius review common evolutionary principles that explain variation in mating behaviors across various species. Gangestad and Haselton review research revealing how women’s sexual desire and men’s reactions to women systematically change across the ovulatory cycle. And Maner and Ackerman discuss what has been learned about various cognitive attunements and biases associated with mating behavior in humans.

Hybrid perspectives

A great deal of research has begun to integrate, and formulate new principles informed by, two or more of these major theoretical perspectives. Four articles in this special issue discuss research at the intersection of interdependence and attachment theories. Murray and Holmes present a motivation-management model that explains how couples can sustain relationship commitment over time. Overall and Simpson discuss a dyadic regulation model clarifying our understanding of how successful partner regulation operates in relationships, especially with insecure partners. Reis and Gable present an interpersonal model of responsiveness that examines how and why partner responsiveness fosters satisfying, healthy relationships. And Lemay and Clark present a motivated distortion model of partner responsiveness and review work that supports it.

Figure 3



Hierarchical Structure of Relationship-Relevant Evolutionary Theories Note: These middle-level theories address important adaptive problems our ancestors faced with respect to how to survive the dangers of childhood (attachment theory [6–8]), how parents and children negotiate weaning and other indicators of optimal investment (parent-offspring conflict theory [16,17]), how women and men negotiate the enduring fitness conflicts they have regarding reproduction (sexual conflict theory [18,19]), how the sexes make trade-offs when choosing mates who vary in attributes associated with ‘good genes’ and ‘good investment’, partly in response to environmental conditions (strategic pluralism theory [20]), and how the sexes approach investing in children in different contexts across time (parental investment theory [21,22]). How these problems are resolved has implications for an individual’s life history trajectory (e.g., whether s/he reproduces early vs later in life, has many vs few children, invests more vs less in each child, has stable vs unstable romantic pair-bonds). This explains why arrows run from life history theory to each middle-level theory and back to life history theory. The optimal ‘solutions’ to each of these adaptive problems (e.g., whether to adopt a secure or an insecure attachment orientation, how much time and effort to invest in a given child) depend on the nature and quality of the environment(s) in which an individual develops and currently resides, with some individuals having to make the best of a bad situation to increase their inclusive fitness.

Three articles discuss research at the intersection of interdependence and evolutionary theories. Lydon and Karremans discuss research addressing how people employ different kinds of strategies to protect their established relationships from the lure of attractive alternatives. Roney and Gettler review evidence suggesting that higher testosterone promotes mate pursuit and present a model of the role that this hormone plays in relationship initiation, maintenance, and daily functioning. And Coan and Sbarra describe social baseline theory and discuss how it links disparate areas in the behavioral and cognitive sciences.

Three articles discuss research at the intersection of attachment and evolutionary theories. Eastwick and Durante discuss adaptive workarounds, focusing on three relatively recent adaptations that alter human mating behaviors by shifting or refocusing the functions of older adaptations. Campbell and Fletcher review recent evidence relevant to the Ideal Standards Model and discuss the value of adopting a functional approach to social cognition in relationships. And Fraley and Roisman present and test different models outlining how early experiences with caregivers (parents) tend to shape psychological development into early adulthood.

A final article discusses research at the intersection of all three theories. Specifically, McNulty and Olson discuss how dual-process models of social processes can be leveraged to inform all three major theoretical perspectives.

Conclusion

Viewed as a whole, the 20 articles in this special issue provide a detailed snapshot of relationship science, circa 2015. This snapshot showcases a thriving discipline. The ideas are broad, deep, and innovative. They focus on topics that are especially consequential for human well-being. That such a young discipline has achieved so much so quickly speaks volumes about the scholars who have devoted their professional lives to understanding human relationships, and it bodes well for the development of relationship sciences in the decades to come.

References

1. Thibaut JW, Kelley HH: *The Social Psychology of Groups*. New York: Wiley; 1959, .
2. Kelley HH, Thibaut JW: *Interpersonal Relations: A Theory of Interdependence*. New York: Wiley; 1978, .
3. Von Neumann J, Morgenstern O: *Theory of Games and Economic Behavior*. Princeton, NJ: Princeton Univ. Press; 1944, .
4. Luce RD, Raiffa H: *Games and Decisions*. New York: Wiley; 1957, .
5. Kelley HH: *Personal Relationships*. Hillsdale, NJ: Erlbaum; 1979, .
6. Bowlby J: *Attachment and loss: Vol. 1. Attachment*. New York: Basic Books; 1969/1982, .
7. Bowlby J: *Attachment and loss: Vol. 2. Separation: Anxiety and Anger*. New York: Basic Books; 1973, .
8. Bowlby J: *Attachment and loss: Vol. 3. Loss*. New York: Basic Books; 1980, .
9. Mikulincer M, Shaver PR: *Attachment in Adulthood: Structure, Dynamics, and Change*. New York: Guilford Press; 2007, .
10. Feeney JA: **Adult romantic attachment: developments in the study of couple relationships**. In *Handbook of Attachment: Theory, Research and Clinical Applications*, 2nd ed.. Edited by Cassidy J, Shaver PR. New York: Guilford Press; 2008:456-502.
11. Simpson JA, Rholes WS: **Adult attachment orientations, stress, and romantic relationships**. In *Advances in Experimental Social Psychology*, 45. Edited by Devine PG, Plant A, Olson J, Zanna M. 2012:279-328. doi: 10.1016/B978-0-12-394286-9.00006-8.
12. Simpson JA, Belsky J. (in press). Attachment theory within a modern evolutionary framework. In *Handbook of Attachment: Theory, Research, and Clinical Applications*, edn 3. Edited by Cassidy J, Shaver PR. New York: Guilford.
13. Mikulincer M, Shaver PR: **The attachment behavioral system in adulthood: activation, psychodynamics, and interpersonal processes**. In *Advances in Experimental Social Psychology*, 35. Edited by Zanna M. New York: Academic Press; 2003:53-152 doi: 10.1016/S0065-2601(03)01002-5.
14. Simpson JA, Belsky J: **Attachment theory within a modern evolutionary framework**. In *Handbook of Attachment: Theory, Research, and Clinical Applications*, 2nd ed.. Edited by Cassidy J, Shaver PR. New York: Guilford; 2008:131-157.
15. Hamilton WD: **The genetical evolution of social behaviour**. *J Theoretical Biol* 1964, 7:1-52.
16. Trivers RL: **Parent-offspring conflict**. *Am Zool* 1974, 14:249-264.
17. Haig D: **Genetic conflicts in human pregnancy**. *Quart Rev Biol* 1993, 68(4):495-532 doi:10.1086/418300. PMID 8115596.
18. Danchin E, Giraldeau L, Cézilly F: *Behavioural Ecology*. Oxford, UK: Oxford University Press; 2008, .
19. Parker GA: **Sexual conflict over mating and fertilization: an overview**. *Philos Trans R Soc B: Biol Sci* 2006, 361(1466):235-259 doi:10.1098/rstb.2005.1785.
20. Gangestad SW, Simpson JA: **The evolution of human mating: trade-offs and strategic pluralism**. *Behav Brain Sci* 2000, 23:573-587.
21. Trivers RL: **Parental investment and sexual selection**. In *Sexual Selection and the Descent of Man, 1871-1971*. Edited by Campbell B. Chicago: Aldine-Atherton; 1972:136-179.
22. Clutton-Brock TH: *The Evolution of Parental Care*. Princeton, NJ: Princeton University Press; 1991, .
23. Kaplan HS, Gangestad SW: **Life history theory and evolutionary psychology**. In *The Handbook of Evolutionary Psychology*. Edited by Buss DM. New York: Wiley; 2005:68-95.