

پی نوشت‌ها



پیشگفتار



1. Sheldrake (1973).
2. Rubery and Sheldrake (1974).
3. Sheldrake and Moir (1970)
4. Sheldrake (1974).
5. Sheldrake (1984).
6. E.g., Sheldrake (1987).

مقدمه



1. In Popper and Eccles (1977).
2. E.g., D'Espagnat (1976).

3. Hawking and Mlodinow (2010), p. 117.
4. Ibid., pp. 118–19.
5. Smolin (2006).
6. Carr (ed.) (2007); Greene (2011).
7. Ellis (2011).
8. Collins, in Carr (ed.) (2007), pp. 459–80.

سراغاز



1. Ibid., p. 50.
2. Bacon (1951), pp. 290–91.
3. Ibid., p. 298.
4. Fara (2009), p. 132.
5. Kealey (1996).
6. Dubos (1960), p. 146.
7. Kealey (1996).
8. National Science Board (2010), Chapter 4.
9. Sarton (1955), p. 12.
10. Laplace (1819), p. 4.
11. Ibid.
12. Chivers (2010).
13. Munowitz (2005), Chapter 7.
14. Chivers (2010).
15. Gould (1989).

16. Gleik (1988).
17. Malhotra et al. (2001).
18. Quoted in Horgan (1997b).
19. Horgan (1997b), p. 6.
20. Westfall (1980).
21. Burt (1932).
22. Gould (1999).
23. Quoted in Burt (1932), p. 9.
24. Kekreja (2009).
25. Wikipedia: The God Delusion, accessed June 16, 2011: http://en.wikipedia.org/wiki/The_God_Delusion
26. Gray (2007), pp. 266 ست
27. Gray (2002), p. xiii.
28. Kuhn (1970).
29. Latour (1987), pp. 184gio
30. Gervais (2010).

[۱] آیا طبیعت مکانیکی است؟



1. Quoted in Brooke (1991), p. 120.
2. Ibid., p. 119.
3. Burt (1932), p. 45.
4. Ibid., p. 120.
5. Quoted in Collins (1965), p. 81.
6. Burt (1932), p. 73.

7. Wallace, trans. (1911), p. 80.
8. Brooke (1991), pp. 128گر
9. Descartes (1985), Vol. 1, p. 317.
10. Ibid., p. 139.
11. Ibid., p. 131.
12. Ibid., p. 141.
13. Dennett (1991), p. 43.
14. Kretzman and Stump (1993).
15. Gilson (1984).
16. Gilbert (1600).
17. Sheldrake (1990), Chapter 4.
18. Lightman (2007), p. 188.
19. Burt (1932).
20. Descartes (1985), Vol. 1, p. 101.
21. Kahn (1949).
22. E.g., Wiseman (2011), pp. 74, 77, 81, 93, 108, 128, 169.
۲۳. گریلینگ (۲۰۱۱) این سخنان را در حالی گفت که استدلال‌های مایکل اسورمر را در کتابی تحت عنوان مغز باورمند (The Believing Brain) بازگو می‌کرد و آن‌ها را احتمالاً «دیدگاه درست» می‌خواند.
24. E.g., Shermer (2011).
25. Brooke (1991), p. 134.
26. Ibid., p. 146.
27. Paley (1802).
28. Quoted in Lightman (2007), p. 45.
29. Dembski (1998).

30. Brown et al. (1968), p. 11.
31. Schelling (1988).
32. Richard, in Cunningham and Jardine (eds) (1990), p. 131.
33. Wroe (2007).
34. Bowler (1984), pp. 76
35. Darwin (1794), p
36. Lamarck (1914), p. 122.
37. Ibid., p. 36.
38. Bowler (1984), p. 134.
39. Darwin (1875), pp. 7
40. Darwin (1859), Chapter 3.
41. Particularly in Darwin (1875).
42. Monod (1972).
43. Partridge (1961), pp. 386–7.
44. Quoted in Driesch (1914), p. 119.
45. Huxley (1867).
46. Dawkins (1976), p. 22.
47. Ibid., p. 21.
48. Ibid., Preface.
49. Dawkins (1982), p. 15.
50. Smuts (1926).
51. Ibid., Chapter 12.
52. Ibid., p. 97.
53. Whitehead (1925), Chapter 6.

54. Koestler (1967), p. 385.
55. Banathy (1997), http://www.newciv.org/ISSS_Primer/aseM04bb.html
56. Mitchell (2009).
57. Filippini and Gramaccioli (1989).
58. Hume (2008), Part VII.
59. Thomson (1852).
60. Singh (2004).
61. Long (1983).

[۲] آیا مقدار کلی مادہ و انرژی ہمیشہ یکسان است؟



1. Burnet (1930).
2. Dijksterhuis (1961), p. 9.
3. Tarnas (1991).
4. Ibid., p. 437.
5. Newton (1730, reprinted 1952), Query 31, p. 400.
6. Popper and Eccles (1977), p. 5.
7. Ibid., p. 7.
8. Davies (1984), p. 5.
9. Munowitz (2005).
10. Coopersmith (2010), p. 23.
11. Ibid., p. 255.
12. Ibid., p. 265.
13. Kuhn (1959).

۱۴. برای خواندن تاریخچه فوق‌العاده‌ای از مفاهیم انرژی، بنگرید به:

- Coopersmith (2010)
15. Harman (1982), p. 58.
16. Feynman (1964).
17. Sheldrake, McKenna and Abraham (2005).
18. Singh (2004), p. 360.
19. William Bonner, quoted by Singh (2004), p. 361.
20. Singh (2004).
21. Quoted by Singh (2004), p. 418.
22. Singh (2004).
23. Ibid., p. 133.
24. E.g., Bekenstein (2004).
25. Singh (2004), p. 139.
26. Belokov and Hooper (2010).
27. Coopersmith (2010), p. 20.
28. Ibid., p. 292.
29. Thomson (1852).
30. Quoted in Burt (1932), p. 9.
31. Davies (2006), Chapter 6.
32. Ostriker and Steinhardt (2001).
33. Sobel (1998).
34. <http://www.xprize.org/>
35. Coopersmith (2010), pp. 270
36. Quoted by Coopersmith (2010), p. 329.

37. Frankenfield (2010).
38. Webb (1991).
39. Ibid.
40. Webb (1980).
41. Webb (1991).
42. Webb (1980).
43. Frankenfield (2010), p. 947.
44. Ibid., p. 1300.
45. Webb (1991).
46. Dasgupta (2010).
47. Thurston (1952).
48. Ibid., p. 377.
49. Ibid., p. 366.
50. Ibid., p. 384.

[۳] آیا قوانین طبیعت ثابت اند؟



1. Tarnas (1991), p. 46.
2. Plato, *The Republic*, Book 7.
3. Tarnas (1991), p. 47.
4. Burt (1932), p. 64.
5. Quoted in Pagels (1983), p. 336.
6. Wilber (ed.) (1984), p. 185.
7. Ibid., p. 137.

8. Ibid., p. 51.

9. For data, see Sheldrake (1994), Chapter 6.

10. Mohr and Taylor (2001).

11. Schwarz et al. (1998).

۱۲. مرجع اندازه‌گیری‌های تاریخ‌های مختلف:

1973: Cohen and Taylor (1973); 1986: Holding e t al. (1986); 1988: Cohen and Taylor (1988);
1995: Kiernan (1995); 1998: Schwarz e t al. (1998); 2000: Grundlach and Merkwowitz (2000);
2010: Reich (2010)

13. Schwarz et al (1998).

14. Stephenson (1967).

۱۵. برای مطالعه بحثی در این باره، نگاه کنید به:

Sheldrake (1994), Chapter 6.

16. Brooks (2009), Chapter 3.

17. Adam (2002).

18. Brooks (2010).

19. Barrow and Webb (2005).

20. Birge (1929), p. 68.

۲۱. برای مشاهده داده‌ها و مرجع‌ها، نگاه کنید به:

Sheldrake (1994), Chapter 6.

22. De Bray (1934).

23. Petley (1985), p. 294.

24. Davies (2006).

25. Ibid.

26. Hawking and Mlodinow (2010), p. 118.

27. Tegmark (2007), p. 118.
28. Rees (1997), p. 3.
29. Ibid., p. 262.
30. Woit (2007).
31. Smolin (2006).
32. Ibid.
33. Bojowald (2008).
34. Smolin (2010).
35. Robertson et al. (2010).
36. Quoted in Potters (1967), p. 190.
37. Ibid.
38. Nietzsche (1911).
39. In Murphy and Ballou (1961).
40. Whitehead (1954), p. 363.
41. Sheldrake (1981, new edition 2009).
42. In Sheldrake (2009), Appendix B.
43. Bohm (1980), p. 177.
44. Cf. Laszlo (2007).
45. Cf. Carr (2008).
46. Woodard and McCrone (1975).
47. Ibid.
48. Holden and Singer (1961), pp. 80–81.
49. Ibid., p. 81.
50. Woodard and McCrone (1975).

51. Goho (2004).
52. Bernstein (2002), p. 90.
53. Quoted in Woodard and McCrone (1975).
54. Danckwerts (1982).
55. Sheldrake (2009).
56. Bergson (1946), p. 101.
57. Ibid., pp. 104-105.
58. Bergson (1911), p. 110.

[۴] آیا ماده ناآگاه است؟



1. Dennett (1991), p. 37.
2. Crick (1994), p. 3.
3. Griffin (1998).
4. Huxley (1893), p. 240.
5. Ibid., p. 244.
۶. خلاقانه‌ترین استدلال‌های تکاملی دربارهٔ پیدایش آگاهی موهوم از هامفری (Humphrey) (۲۰۱۱) هستند.
7. Searle (1992), p. 30.
8. Strawson (2006), p. 5.
9. Crick (1994), pp. 262-3.
10. Strawson (2006).
11. Ibid.
12. Ibid., p. 27.

13. Searle (1997), pp. 43–ear
14. Spinoza (2004), Part III, propositions 6–pi
15. Hampshire (1951), p. 127.
16. Skrbina (2003).
17. Ibid., p. 20.
18. Ibid., p. 21.
19. Ibid., p. 21.
20. Ibid., p. 22.
21. Ibid., p. 25.
22. Ibid., p. 27.
23. Ibid., p. 28.
24. Ibid., p. 31.
25. Ibid., p. 32.
26. Ibid., p. 33.
27. Dennett (1991), pp. 173–en
28. Griffin (1998), p. 49 note.
29. Ibid.
30. Ibid., p. 113.
31. De Quincey (2008).
32. Ibid.
33. Ibid., p. 99.
34. Libet et al. (1979), p. 202.
35. Libet (1999).

36. Wegner (2002).
37. Libet (2006).
38. Libet (2003), p. 27.
39. Feynman (1962).
40. Quoted by Dossey (1991), p. 12.
41. Dyson (1979), p. 249.

[۵] آیا طبیعت بی‌مقصد است؟



1. Dawkins (1976).
2. Haemmerling (1963).
3. Goodwin (1994), Chapter 4.
4. Hinde (1982).
5. Smith (1978).
6. Thom (1975, 1983).

عنایت داشته باشید که نوم کلمه «کرئود» را به صورت «chreod» می‌نویسد، یعنی بدون e پایانی. املاي chreode را اولین بار وادینگتون به کار گرفت.

7. Thom (1975).
8. Cramer (1986).
9. Aharonov et al. (2010).
10. Anfinsen and Scheraga (1975).

۱۱. در مجموعه‌ای از کارگاه‌های ادامه‌دار با موضوع پیش‌بینی ساختار پروتئین، که تحت نظارت آزمایشگاه ملی لارنس لیورمور در کالیفرنیا برگزار می‌شود، تیم‌هایی از سرتاسر دنیا می‌کوشند ساختار سه‌بعدی پروتئین‌ها را پیش‌بینی کنند، بی‌آنکه پاسخ را بدانند. این ارزیابی‌ها را «بررسی انتقادی تکنیک‌های پیش‌بینی ساختار پروتئین» (CASP) می‌نامند. موفق‌ترین پیش‌بینی‌ها مبتنی بر دانش دقیق از پروتئین‌های مشابه هستند که مدل‌سازی تطبیقی نام دارد. رقابت‌های CASP قبلاً یک دسته

اصول پایه داشت، بدین معنا که پیش‌بینی‌ها از اصول پایه آغاز می‌شود، اما برای CASP6 در سال ۲۰۰۴ نام این دسته تغییر کرد: «این نام چنین القا می‌کند که هیچ‌انکایی به ساختارهای شناخته‌شده در مدل‌سازی نیست. در عمل، بیشتر روش‌های مورد استفاده برای چنین هدف‌هایی استفاده زیادی از اطلاعات ساختاری موجود می‌کنند، هم در طراحی تابع‌های امتیازدهی برای ایجاد تمایز میان پیش‌بینی‌های صحیح و غلط و هم در انتخاب قطعه‌هایی برای به‌کارگیری مدل. به این دلیل، این دسته به تاشدگی‌های جدید تغییر نام داد.»

www.predictioncenter.org/casp6/doc/categories.html

۱۲. برای مطالعه یک مرور نگاه کنید به:

Nemethy and Scheraga (1977).

13. Anfinsen and Scheraga (1975).

14. Cf. Elsasser's (1975) "principle of finite classes."

15. Hawking (1988), p. 60.

16. Smolin (2006).

17. Thom (1975), pp. 113–14, 141.

18. Ibid., Chapter 9.

۱۹. برای مطالعه درآمدی کلی بنگرید به:

Capra (1996).

20. Thom (1983), p. 141.

21. Penrose (2010).

22. Bergson (1911), p. 262.

23. Cohn (1957).

24. Bacon (1951).

25. Midgley (2002), Chapter 7.

26. Satprem (2000).

[۶] آیا وراثت زیستی تماماً مادی است؟



1. Cole (1930).
2. Needham (1959), p. 205.
3. Holder (1981).
4. Dawkins (1976).
5. Ibid., p. 23.
6. Ibid., p. 24.
7. Hodges (1983).
8. E.g., Carroll (2005), p. 106.

۹. برای مطالعهٔ مجادله‌های ویتالیست‌ها و مکانیست‌ها، بنگرید به:

Nordenskiöld (1928); Coleman (1977).

10. Venter (2007), p. 299.
11. Ibid., p. 300.
12. Ibid.
13. Quoted in Nature (2011).
14. Ibid.
15. Culotta (2005).
16. Manolio et al. (2009).
17. Khoury et al. (2010).
18. Green and Guyer (2011).
19. Latham (2011).
20. Wall Street Journal, 2 May 2004.
21. Pisano (2006), p. 184.

22. Ibid., p. 198.
23. Howe and Rhee (2008).
24. Carroll et al. (2001).
25. Gerhart and Kirschner (1997).
26. Wolpert (2009). The Edge Question Center, 2009 http://www.edge.org/q2009/q09_6.html#wolpert
27. <http://www.sheldrake.org/D&C/controversies/genomewager.html>
28. Wolpert and Sheldrake (2009). See also Schnabel (2009).
29. Darwin (1859; 1875).
30. Mayr (1982), p. 356.
31. Ibid., Chapter. 5.
32. Huxley (1959), p. 8.
33. Ibid., p. 489.
34. Medvedev (1969).
35. Anway et al. (2005).
36. Young (2008).
37. Petronis (2010).
38. Qiu (2006).
39. Galton (1875).
40. Quoted in Wright (1997), p. 17.
41. Ibid., p. 21.
42. Wright (1997), Chapter 2.
43. Iacono and McGue (2002).
44. Watson (1981).

45. Wright (1997), p. 42.

46. Dawkins (1976), p. 206.

47. E.g., Blackmore (1999).

48. Dawkins, in Blackmore (1999), p. ix.

49. Ibid.

50. E.g., Blackmore (1999), Dennett (2006).

51. Sheldrake (2011b).

۵۲. این گفت‌وگو در تابستان ۱۹۹۵ یا ۱۹۹۶ در آشتون‌وُلد، منزل بانو میریام روتشیلد، انجام شد.

53. Conniff (2006).

۵۴. داوکینز (2006: 215p) می‌نویسد وقتی فهمیده‌ام که خودخواه منبع الهام جفری اسکیلینگ و دیگر مدیران انرون قرار گرفته دچار «شرمساری» شده و معتقد است پیامش را درست نفهمیده‌اند.

[۷] آیا خاطرات به صورت ردهای مادی ذخیره می‌شوند؟



1. Rose (1986), p. 40.

2. Plotinus (1956), Ennead 4, Tractate 6; Inge (1929), Vol. 1, pp. 226–lo

۳. راسل (۱۹۲۱)؛ ویتگنشتاین (۱۹۶۷)، یادداشت ۶۱۰: «چرا باید علتی برای... به یاد آوردن در دستگاه عصبی ام وجود داشته باشد؟ چرا باید چیزی، هرچه باشد، به هر شکلی آنجا ذخیره شود؟ چرا باید ردی به جا بماند؟ چرا ترتیبی ذهنی وجود نداشته باشد که هیچ مابه‌ازای فیزیولوژیکی ندارد؟ اگر این تصورات ما را از علیت می‌شوراند، پس وقتش رسیده شورانده شویم».

4. Bursen (1978).

5. Crick (1984).

6. Boakes (1984).

7. Lashley (1929), p. 14.

8. Lashley (1950), p. 479.

9. Pribram (1971); Wilber, ed. (1982).
10. Boycott (1965), p. 48.
11. Rose and Harding (1984); Rose and Csillag (1985); Horn (1986); Rose (1986).
مطالعات مفصلی هم، با آزمایش‌هایی مشابه بر روی جوجه‌ها، نشان داده‌اند که، پس از یادگیری،
تغییراتی در تعدادی از وزیکول‌های سیناپس‌ها رخ می‌دهد (Rose, 1986).
12. Cipolla-Neto et al. (1982).
13. Kandel (2003).
14. Lu et al. (2009).
15. Lewin (1980).
16. Fröhlich and McCormick (2010).
17. Blackiston et al. (2008).
18. Lashley (1950), p. 472.
19. Hunter (1964).
۲۰. مثلاً Squire (۱۹۸۶). برای توصیفات دقیقی از بعضی موارد بالینی نگاه کنید به:
Sacks (1985).
21. Luria (1970; 1973); Gardner (1974).
22. Penfield and Roberts (1959).
23. Quoted in Wolf (1984), p. 175.
24. Pribram (1979).
25. Bohm (1980).
26. Bohm in Weber (1986), p. 26.
27. Bohm in Sheldrake (2009), p. 302.
۲۸. رزونانس ریختی و شواهد مربوط به آن را در کتاب علم جدید حیات (ویراست جدید، ۲۰۰۹)
توضیح داده‌ام. پیشینه تاریخی و دلالت‌های گسترده‌اش را نیز در کتاب حضور گذشته: رزونانس
ریخته و عادات طبیعت (ویراست جدید، ۲۰۱۱) آورده‌ام.

29. Jennings (1906).

30. Wood (1982).

31. Wood (1988).

32. Klein and Kandel (1978).

33. Jennings (1906).

34. Watkins et al. (2010).

35. Rizzolatti et al. (1999).

36. Agnew et al. (2007).

37. Ibid., p. 211.

38. Yates (1969).

39. E.g., Lorayne (1950).

۴۰. جزئیات این آزمایش‌ها را با ارجاع به مقاله‌های مجلات علمی در کتاب علم جدید حیات (ویراست جدید، ۲۰۰۹) آورده‌ام.

41. Flynn (2007).

42. Data from Horgan (1997a).

43. Flynn (2007), p. 176.

44. Summarized in Sheldrake (2009).

[۸] آیا ذهن در حصار مغز است؟



1. Piaget (1973), p. 280.

2. Wallace (2000), pp. 28–al

3. Ibid., p. 49.

4. Crick (1994), p. 3.

5. Greenfield (2000), pp. 12–ree

۶. ویلدر پنیفیلد عصب‌شناس دریافت که هنگام عمل مغز می‌تواند، با تحریک قشر مغز بیماران، خاطرات آنی روشنی را برانگیزد، اما هرچند تحریک باعث برانگیزش خاطرات می‌شد، خودش هم اعتقاد نداشت خاطرات در بخش تحریک شده نهفته باشند. او همچنین نتیجه گرفت که حافظه «در قشر مغز نیست» (Penfield, 1975).

7. Duncan and Kennett (2001), p. 8.
8. Lindberg (1981).
9. Ibid., p. 202.
10. Kandel et al. (1995) p. 368.
11. Gray (2004), pp. 10, 25.
12. Lehar (2004).
13. Lehar (1999).
14. Winer et al. (2002).
15. Winer et al. (1996).
16. Winer and Cottrell (1996).
17. Ibid. (1996).
18. E.g., Bergson (1911); Burt (1932).
19. James (1904), quoted in Velmans (2000).
20. Whitehead (1925), p. 54.
21. Velmans (2000), p. 109.
22. Ibid., pp. 113, p.
23. Gibson (1986).
24. Thompson et al. (1992).
25. Noë (2009), p. 183.
26. In Blackmore (2005), p. 164.
27. Bergson (1911), p. 7.

28. Ibid., pp. 37–8.

29. Sheldrake (2005b).

30. Braud et al. (1990); Sheldrake (1994); Cottrell et al. (1996).

31. Sheldrake (2003a).

32. Ibid.

33. Ibid.

34. Ibid.

35. Ibid.

36. Corbett (1986); Sheldrake (2003a).

37. Long (1919).

38. Cottrell et al. (1996).

39. Sheldrake (2003a).

40. Ibid.

41. Sheldrake (2005a).

۴۲. معناداری آماری $P = 10^{-376}$ بود (Sheldrake, 2005a).

43. Ibid.

44. Sheldrake (2003a).

۴۵. طبق فراتحلیلی از پانزده مطالعه نگاه خیره از طریق دوربین مداربسته، اکثرشان نتایج مثبتی نشان می‌دادند و نتیجه مثبت کلی به لحاظ آماری معنادار بود (Schmidt et al., 2004).

46. Dyson (1979).

47. Ibid., p. 171.

[۹] آیا پدیده‌های فراروان‌شناختی توهم‌اند؟



1. Quoted in Barrett (1904).

2. In Krippner and Friedman (eds) (2010).

3. Quoted in Auden (2009).

4. New Penguin English Dictionary, 1986.

۵. برای مطالعه بحث‌های مربوطه، نگاه کنید به:

Sheldrake (2003a, 2011) and Radin (1997, 2007).

6. Recordon et al. (1968).

۷. چنان‌که پیترز خاطر نشان می‌کند، تنها تبیین «نرمال» ممکن این است که مادر به هر نحوی شده نوعی کد شنیداری مخفی یا ناخودآگاه از طریق تلفن برای پسر می‌فرستاده، اما هیچ مدرکی دال بر این امر وجود نداشت. به هر حال، پیترز نوارهای ضبط‌شده را برای همه علاقه‌مندان می‌فرستاد تا خودشان تلاش کنند این سرنخ‌ها را شناسایی کنند. من هم به نوارها گوش دادم و ردی از هیچ‌گونه کدی پیدا نکردم. حتی یک شعبده‌باز حرفه‌ای هم نتوانست هیچ‌گونه تقلبی را شناسایی کند.

8. Sheldrake (2003a).

9. Radin (1997).

10. Ibid.

11. Ibid.

12. Ullman, Krippner and Vaughan (1973).

۱۳. احتمال اینکه این آمار شانس‌ی باشند یک در ۷۵ میلیون بود (Radin, 1997).

14. Carter, in Krippner and Friedman (eds) (2010), Chapter 6.

۱۵. همان، فصل ۱۲. چندین فراتحلیل نشان داده‌اند که اثر کاملاً معناداری وجود داشته است، به استثنای مقاله شکاکانه میلتون و وایزمن (۱۹۹۹) که مجموعه‌ای از نتایج مثبت را حذف کرد و تعادل کلی را به اثر مثبت معنادار تغییر داد (Milton, 1999). ضمناً میلتون و وایزمن از روش تحلیلی نقص‌داری استفاده کردند که اندازه نمونه هر مطالعه را لحاظ نمی‌کرد. وقتی داده‌هایشان با اصلاح این نقص مورد تحلیل مجدد قرار گرفتند، اثر کلی مثبت و به لحاظ آماری معنادار بود (Radin, in Krippner and Friedan (eds) (2010) Chapter 7).

16. Dalton (1997); Broughton and Alexander (1997).

۱۷. همسر این کتاب را در یک کتاب دست‌دوم فروشی پیدا کرد، فوراً فهمید موضوعش برای من جالب است (که قطعاً هم همین‌طور بود) و برایم خرید. این کتاب حالا تجدید چاپ شده و دوباره در دسترس است. نگاه کنید به:

Long (2005).

18. Shel Drake (1999a), Chapter 3.

19. Shel Drake and Smart (1998).

20. Shel Drake and Smart (2000a).

۲۱. پس از آنکه آزمایشی با جیتی در تلویزیون بریتانیا نشان داده شد، چندین فرد شکاک توانایی جیتی را برای پیش‌بینی به‌خانه آمدن پم به چالش کشیدند و کوشیدند، با تبیین، صورت مسئله را پاک کنند. یکی از آن‌ها به نام ریچارد وایزمن را، که احضارگر، روان‌شناس و عضو کمیته بررسی علمی ادعاهای پارانرمال (CSCICOP) بود، دعوت کردم تا خودش آزمایش‌هایی با جیتی انجام دهد. وایزمن دعوتم را قبول کرد و پم و خانواده‌اش با نهایت بزرگواری با او همکاری کردند. در این آزمایش‌ها، هروقت پم از خانه خارج می‌شد، دستیار وایزمن همراه او بود و در وقت‌هایی که به‌صورت تصادفی انتخاب می‌شد به او می‌گفت به خانه برگردد. وایزمن هم پیش جیتی می‌ماند و از او فیلم می‌گرفت. نتایج کاملاً شبیه آزمون‌های خودم بودند؛ درواقع حتی اثر بزرگ‌تری مشاهده شد. در آزمایش‌های وایزمن، جیتی چهار درصد هنگام غیبت پم و ۷۸ درصد هنگام برگشتش به خانه پای پنجره می‌ایستاد (Shel Drake and Smart, 2000a). اما وایزمن و همکارش متیو اسمیت ادعا کردند جیتی در آزمون رد شده، چراکه قبل از راه‌افتادن پم پای پنجره می‌رفته است. آن‌ها توجیهی به داده‌های خودشان هم نکردند که رفتار انتظار جیتی را خیلی شبیه به زمان آزمایش‌های خودم نشان می‌داد (Wiseman et al., 1998). به ادعاهایشان پاسخ دادم (Shel Drake, 1999b) و دو دور دیگر پاسخ شکل گرفت (Wiseman et al., 2000 and Shel Drake, 2000). برای مطالعه خلاصه این مجادله، بنگرید به:

Carter (2010) and Shel Drake (2011a).

وایزمن حالا پذیرفته که نتایجش تکرار یافته‌های من بوده است: «الگوی مطالعاتم شبیه الگوی مطالعات روپرت است».

(<http://www.skeptiko.com/11-dr-richard-wiseman-on-rupertsheldrakes-dogsthat-know/>)

22. Shel Drake and Smart (2000b).

23. Shel Drake (2011a).

24. Shel Drake and Morgana (2003).

25. Van der Post (1962), pp. 236.

۲۶. تعداد پاسخ‌دهندگان زن بیشتر از مردها بود، برای همین است که متوسط، یعنی ۹۲ درصد، میانگین معمولی ۹۶ و ۸۵ نبود (Shel Drake, 2003a).

27. Lobach and Bierman (2004); Schmidt et al. (2009).
28. Sheldrake and Smart (2000a, b).
29. Sheldrake (2003a).
30. Radin (2007).
31. Einstein, in Einstein and Born (1971).
32. Sheldrake and Smart (2005), Sheldrake and Avraamides (2009); Sheldrake, Avraamides and Novak (2009).
33. Sheldrake and Lambert (2007); Sheldrake and Beeharee (2009).
34. See the online experiments portal at www.sheldrake.org
35. Sheldrake (2003a, 2011a).
36. Grant and Halliday (2010).
37. Sheldrake (2005c).
38. Sheldrake (2003a).
39. Sheldrake (2011a).
40. Sheldrake (2003a, 2011a).
41. Saltmarsh (1938).
42. Ibid.
43. Dunne (1927).
44. Radin (1997).
45. Radin (1997), Chapter 7.
46. Bierman and Scholte (2002); Bierman and Ditzhuijzen (2006); Bem (2011).

۴۷. مثلاً ریچارد وایزمن، شکاک مشهور بریتانیایی، پذیرفت که داده‌های آزمایش‌های مربوط به ادراک فراحسی «از استانداردهای معمول برای یک ادعای عادی برخوردارند، اما برای یک ادعای خارق‌العاده کافی نیستند».

<http://subversive-thinking.blogspot.com/2010/04/richard-wiseman-evidence-for-esp-meets.html>

۴۸. برای ملاحظه بحث‌های مستدل درباره نگرش‌های شکاکان، نگاه کنید به:

Griffin (2000), Chapter 7; also Carter (2007) and McLuhan (2010).

49. French, in Henry (ed.) (2005), Chapter 5.

۵۰. برای ملاحظه بحث شکاکانه درباره ادعاهای شکاکانه منبع زیر را ببینید:

www.skepticalinvestigations.org

51. See the Appendix to Sheldrake (2011a) and the Controversies section of my website, www.sheldrake.org

52. Whitfield (2004).

53. <http://www.skepticalinvestigations.org/New/Audio/telepathy.html>

54. http://www.skepticalinvestigations.org/controversies/Euroskep_2005.htm

[۱۰] آیا فقط پزشکی مکانیستی واقعاً مؤثر است؟



1. Sheldrake (2009), Chapter 1.

2. Jones and Dangl (2006).

3. Elgert (2009).

4. Ibid.

5. Le Fanu (2000).

6. Ibid.

7. Ibid., pp. 177–bi

8. Weil (2004).

9. Ibid.

10. Le Fanu (2000)..

11. Boseley (2002).

12. Goldacre (2010).

13. Ibid.

۱۴. به این مدخل ویکی پدیا مراجعه کنید:

http://en.wikipedia.org/wiki/Pharmaceutical_lobby

15. Goldacre (2009).

16. Stier (2010).

17. Ibid.

18. Mussachia (1995).

19. Rosenthal (1976).

20. Roberts et al. (1993).

21. Evans (2003).

22. Kirsch (2010).

23. Kirsch (2009).

24. Ibid.

25. Kaptchuck (1998).

26. Evans (2003).

27. Weil (2004).

28. Dossey (1991).

29. Moerman (2002).

30. Ibid.

31. Singh and Ernst (2009), p. 300

32. Silverman (2009).

33. Reiche et al. (2005).

34. E. G., Pattie (1941); Stevenson (1997), p. 16.
35. Weil (2004), Chapter 21.
36. Freedman (1991).
37. Time (1952).
38. Mason (1955).
39. Weil (2004), Chapter 21.
40. Burns (1992).
41. Le Fanu (2000).
42. Source: US Centers for Disease Control and Prevention: <http://www.cdc.gov/obesity/childhood/index.html>
43. Kreitzer and Riff (2011).
44. Sheldrake (1999), Chapter 5.
45. Koenig (2008).
46. Ibid., Chapter 9.
47. Ibid., p. 143.
48. Crow (2011), p. 571.
49. Ibid.
50. Ibid.
51. UK Government (2010).
52. Le Fanu (2000), p. 400.
53. E.g., Singh and Ernst (2005).
54. World Health Organization (2003).
55. Singh and Ernst (2005).
56. Ibid.

57. Monerief (2009).
58. Kirsch (2009), p. 158.
59. Gray (2011), Chapter 2.
60. Ibid.
61. <http://outthere.whatitcosts.com/cryogen-frozen.htm>
62. Quoted by Willis (2009).
63. Hamilton (2005).
64. Source: American Medical Association: <http://www.ama-assn.org/amednews/2009/08/24/prsa0824.htm>
65. Zhang et al. (2009).
66. Temel et al. (2010).

[۱۱] توہم عینیت



1. Lear (1965), p. 89.
2. Ibid., p. 114.
3. Meri (2005), pp. 138omi
4. Lear (1965), pp. 103omi
5. Ibid., Introduction.
6. Descartes (translation, 1985), Vol. 1, p. 127.
7. Zajonc (1993).
8. D'Espagnat (1976), p. 286.
9. Latour (2009), pp. 10-ato
10. Latour (1987); Collins and Pinch (1998).
11. Collins and Pinch (1998), p. 111.

12. Ibid., p. 42.

۱۳. بحث را در فصل چهارم بخوانید.

14. Sheldrake (2001).

15. Sheldrake (2004a).

16. Sheldrake (2001).

۱۷. آلیستر کاتبرتسون (ارتباط شخصی، ۱۳ نوامبر، ۲۰۱۰) این پیمایشی سی‌وسه معلم علوم مدارس دولتی را در نوامبر ۲۰۱۰ در مؤسسه تربیت معلمان علوم شاهزاده ولز انجام داد.

18. Sheldrake (2004a).

19. Sheldrake (2004a).

20. Rosenthal (1976).

21. Rosenthal (1976), Chapter 10.

22. Sheldrake (1999c).

23. Watt and Nagtegaal (2004).

24. Sheldrake (1998b).

25. Sheldrake (1999c).

26. Sheldrake (1994), Chapter 7.

27. Sheldrake (1998b).

28. Sheldrake (1998c).

29. Sheldrake (1999d).

30. Wiseman and Watt (1999).

31. Enz (2009).

۳۲. مثلاً رادین (۲۰۰۷) در فراتحلیل‌های خود برآورد کرد که چه تعداد مجموعه داده‌های منفی منتشرنشده نیاز است تا نتایج مثبت منتشرشده را جبران کند. او دریافت که اثر کشوی میز نمی‌تواند نتایج مثبت کلی را در پژوهش‌های فراوان‌شناسی تبیین کند.

33. Goldacre (2011).

34. Wicherts et al. (2006).
35. Broad and Wade (1985).
36. Ibid.
37. Dennett (2006).
38. Wikipedia entry on "ikiön scandal enhttp://en.wikipedia.org/wiki/Schön_scandal
39. Nature (2010).
40. Daily Telegraph (2010).
41. Broad and Wade (1985), pp. 141ht
42. Hettinger (2010).
43. Oreskes and Conway (2010), Chapter 1.
44. Michaels (2005).
45. Ibid.
46. Oreskes and Conway (2010).

۴۷. برای بحثی جالب از این موضوعات منبع زیر را ببینید:

Latour (2009), Chapter 3.

[۱۲] آینده علوم



1. Royal Society (2011).
2. Ibid.
3. US Census data, accessed June 2011: <http://www.census.gov/compendia/statab/2011/tables/11s0807.pdf>
4. Data for 2005: Royal Society (2005).
5. National Science Foundation: <http://www.nsf.gov/statistics/infbrief/nsf09314/>
6. Smolin (2006).

7. Ziman (2003).

8. Feyerabend (2010).

9. <http://www.cam.ac.uk/admissions/undergraduate/courses/natsci/part1b.html>, accessed June 2011.

10. Fara (2009), pp. 191.

11. Ibid., pp. 194, 196.

۱۲. از جمله بعضی که فقط به صورت برخط منتشر می‌شوند. منبع:

Royal Society (2011).

13. Carr (2007).

14. Brooke (1991), p. 155.

15. Fara (2009), p. 197.

16. Ibid., p. xv.

17. Krönig (1992), p. 155.

18. Gervais (2010).

۱۹. این اقبال را داشته‌ام که در گفت‌وگوهای علمی و فلسفی زیادی شرکت کنم که واقعاً جزء روشنی‌بخش‌ترین تجربیات زندگی‌ام بوده‌اند. مثلاً با دیوید بوهم و هانس پیتر دور، که هر دو متخصص فیزیک کوانتومی‌اند، در این باره بحث کردم که فیزیک مدرن چگونه می‌تواند با میدان‌های ریخت‌زا مرتبط باشد. با متیو فاکس الهی‌دان به بررسی پیوندهای جدید میان علم و معنویت پرداختیم؛ بعضی از بحث‌های ما در کتاب‌های مشترکمان *تبرک طبیعی* (Natural Grace, 1996) و *فیزیک فرشتگان* (The Physics of Angels, 1996) منتشر شد. من و اندرو وایل، در مجموعه‌ای از گفت‌وگوهای سالانه، به پیوندهای میان پژوهش علمی، پزشکی یکپارچه و مطالعات آگاهی پرداختیم که همه به صورت صوتی در وب‌سایتم (www.sheldrake.org) در دسترس‌اند. در مجموعه‌ای از بحث‌های سه‌طرفه، که پانزده سال طول کشید، با رالف آبراهام، ریاضی‌دان پیش‌تاز در عرصه نظریه آشوب، و ترنس مک‌کنا، پژوهشگر استفاده شمن‌ها از گیاهان روان‌گردان، به طیف وسیعی از موضوعات پرداختیم. بعضی از گفت‌وگوهای ما در کتاب‌هایمان مشترکمان *آشوب، خلاقیت و آگاهی کیهانی* (Chaos, Creativity and Cosmic Consciousness, 2001) و *ذهن تکاملی* (The Evolutionary Mind, 2005) منتشر شد و اکثرش هم به صورت برخط در وب‌سایتم در دسترس است.

20. UK Office of Science and Technology (2000).

21. Hansen (2010).
22. For example, the AIDS Treatment Activist Coalition: <http://www.atac-usa.org>
23. Akrich et al. (2008).
24. Source: The Association of Medical Research Charities: http://www.amrc.org.uk/our-members_member-profiles
25. Sample (2010).
۲۶. این ایده را با سیاستمداران برجسته بریتانیا، هم در دولت و هم اپوزیسیون، در میان گذاشتم و اکثرشان استقبال کردند. این را در نیچر (Sheldrake, 2004b) و نیوپورک تلیمز (Sheldrake, 2003c) منتشر کردم و اندیشکدهٔ دِموسس سراغش رفت (Wilsdon et al., 2005). اما هیچ اتفاقی نیفتاد. کار راحت‌تر این بود که اوضاع همین‌طور که هست بماند و ضمناً تغییر در سیستم‌های بودجه‌رسانی علمی چندان رأی‌آور نیست. اما هنوز هم این امکان وجود دارد.
27. Shannon (2002).
28. Viveiros de Castro (2004).
29. Wallace (2009), pp. 24–al
30. Horgan (2003).
31. Weil (2004).
32. Heglund et al. (1995).
۳۳. مثلاً نگاه کنید به بررسی‌های خودم با متیو فاکس الهی‌دان در منبع زیر:
Sheldrake and Fox (1996) and Fox and Sheldrake (1996).
34. Tamas (1991), Chapter 3.
35. Suzuki (1998).
36. Royal Society (2011).

منابع



- Adam, D. (2002), "Flickering light raises possibility of changing 'constant,'" *Nature*, 412.757.
- Aharonov, Y., Popescu, S., and Tollaksen, J. (2010), "A time-symmetric formulation of quantum mechanics," *Physics Today*, November, 27–32.
- Agnew, Z. K., Bhakoo, K. K., and Puri, B. K. (2007), "The human mirror system: a motor resonance theory of mind-reading," *Brain Research Reviews*, 54, 286–93.
- Akrich, M., Nunes, J., Paterson, F., and Rabeharisoa, V. (2008), *The Dynamics of Patient Organizations in Europe*, Presses des Mines, Paris.
- Anfinsen, C. B., and Scheraga, H. A. (1975), "Experimental and theoretical aspects of protein folding," *Advances in Protein Chemistry*, 29, 205–300.
- Anway, M. D., Cupp, A. S., Uzumcu, M., and Skinner, M. K. (2005), "Epigenetic transgenerational actions of endocrine disruptors and male fertility," *Science*, 3081466–9.
- Auden, W. H. (2009), *The Selected Writings of Sydney Smith*, Faber & Faber, London.
- Bacon, F. (1951), *The Advancement of Learning and New Atlantis*, Oxford University Press, London.
- Banks, R. D., Blake, C. C. F., Evans, P. R., Haser, R., Rice, D. W., Hardy, G. W., Merrett, M., and Phillips, A. W. (1979), "Sequence, structure and activities of phosphoglycerate kinase," *Nature*, 279, 773–7.

- Barnett, S. A. (1981), *Modern Ethology*, Oxford University Press, Oxford.
- Barrett, W. (1904), *Address by the President*, Proceedings of the Society for Psychical Research, 18, 323–50.
- Barrow, J. D., and Webb, J. K. (2005), “Inconstant constants: Do the inner workings of nature change with time?,” *Scientific American*, June, 32–9.
- Bekenstein, J. (2004), “Relativistic gravitation theory for the modified Newtonian dynamics paradigm,” *Physical Review D*, 70, Issue 8, 083509.
- Belokov, A. V., and Hooper, D. (2010), “Contribution of inverse Compton scattering to the diffuse extragalactic gamma–ray background from annihilating dark matter“, *Physical Review D*, 81, 043505.
- Bem, D. (2011), “Feeling the future: experimental evidence for anomalous retroactive influences on cognition and affect,” *Journal of Personality and Social Psychology*, 100, 407–25.
- Bergson, H. (1911), *Creative Evolution*, Macmillan, London.
- Bergson, H. (1946), *The Creative Mind*, Philosophical Library, New York.
- Bernstein, J. (2002), *Polymorphism in Molecular Crystals*, Clarendon Press, Oxford.
- Bierman, D. and Ditzhuijzen, J. (2006), “Anomalous slow cortical components in a slotmachine task,” *Proceedings of the 49th Annual Parapsychological Association*, 5–19.
- Bierman, D., and Scholte, H. (2002), “Anomalous anticipatory brain activation preceding exposure of emotional and neutral pictures,” *Journal of International Society of Life Information Science*, 380–88.
- Birge, W. T. (1929), “Probable values of the general physical constants,” *Reviews of Modern Physics*, 33, 233–9.
- Blackiston, D. J., Casey, E. S., and Weiss, M. R. (2008), “Retention of memory through metamorphosis: Can a moth remember what it learned as a caterpillar?,” *PLoS ONE*, 3 (3) E1736.
- Blackmore, S. (1999), *The Meme Machine*, Oxford University Press, Oxford.
- Blackmore, S. (2005), *Conversations on Consciousness*, Oxford University Press, Oxford.
- Boakes, R. (1984), *From Darwin to Behaviourism*, Cambridge University Press, Cambridge.
- Bohm, D. (1980), *Wholeness and the Implicate Order*, Routledge & Kegan Paul, London.
- Bojowald, M. (2008), “Big bang or big bounce? New theory on the universe’s birth” ,*Scientific American*, October.

- Boseley, S. (2002), "Scandal of scientists who take money for papers ghostwritten by drug companies," *Guardian*, 7 February.
- Bowler, P. J. (1984), *Evolution: The History of an Idea*, University of California Press, Berkeley.
- Boycott, B. B. (1965), "Learning in the octopus," *Scientific American*, 212 (3), 42–50.
- Braud, W., Shafer, D., and Andrews, S. (1990), "Electrodermal correlates of remote attention: Autonomic reactions to an unseen gaze," *Proceedings of Presented Papers, Parapsychology Association 33rd Annual Convention*, Chevy Chase, MD, 14–28.
- Broad, W., and Wade, N. (1985), *Betrayers of the Truth: Fraud and Deceit in Science*, Oxford University Press, Oxford.
- Brooke, J. H. (1991), *Science and Religion: Some Historical Perspectives*, Cambridge University Press, Cambridge.
- Brooks, M. (2009), *13 Things That Don't Make Sense*, Profile Books, London.
- Brooks, M. (2010), "Operation alpha," *New Scientist*, 23 October, 33–5.
- Broughton, R. S. and Alexander, C. M. (1997) Auroganzfeld II. An attempted replication of the PRL research," *Journal of Parapsychology*, 61, 209–226.
- Brown, R. E. Fitzmyer, J. A., and Murphy, R. E. (1968), *The Jerome Bible Commentary*, Prentice-Hall, Englewood Cliffs, NJ.
- Burnet, J. (1930), *Early Greek Philosophy*, A&C Black, London.
- Burns, D. A. (1992), " 'Warts and all'—the history and folklore of warts: a review ", *Journal of the Royal Society of Medicine*, 85, 37–40.
- Bursen, H. A. (1978), *Dismantling the Memory Machine*, Reidel, Dordrecht.
- Burt, E. A. (1932), *The Metaphysical Foundations of Modern Physical Science*, Kegan Paul, Trench & Trubner, London.
- Capra, F. (1996), *The Web of Life: A New Synthesis of Mind and Matter*, Harper Collins, London.
- Carr, B. (ed.) (2007), *Universe or Multiverse?*, Cambridge University Press, Cambridge.
- Carr, B. (2008), "Worlds apart? Can psychical research bridge the gap between matter and minds?," *Proceedings of the Society for Psychical Research*, 59, 1–96.
- Carroll, S. B. (2005), *Endless Forms Most Beautiful*, Quercus, London.
- Carroll, S. B. Grenier, J. K., and Weatherbee, S. D. (2001), *From DNA to Diversity: Molecular Genetics and the Evolution of Animal Design*, Blackwell, Oxford.

- Carter, C. (2007) *Parapsychology and the Skeptics*, Sterling House, Pittsburgh, PA.
- Carter, C. (2010), “‘Heads I lose, Tails you win’, or, How Richard Wiseman nullifies positive results and what to do about it,” *Journal of the Society for Psychological Research*, 156–67 74,.
- Chivers, T. (2010), “Neuroscience, free will and determinism: ‘I’m just a machine’”, *Daily Telegraph*, 12 October.
- Cipolla-Neto, J., Horn, G., and McCabe, B. J. (1982), “Hemispheric asymmetry and imprinting: the effect of sequential lesions to the Hypothalamus ventrale”, *Experimental Brain Research*, 48, 22–7.
- Cohen, E. R., and Taylor, B. N. (1973), “The 1973 least-squares adjustment of the fundamental constants,” *Journal of Physical and Chemical Reference Data*, 2, 663–735.
- Cohen, E. R., and Taylor, B. N. (1986), “The 1986 CODATA recommended values of the fundamental physical constants,” *Journal of Physical and Chemical Reference Data*, 17, 1795–803.
- Cohn, N. (1957), *The Pursuit of the Millennium*, Secker & Warburg, London.
- Cole, F. J. (1930), *Early Theories of Sexual Generation*, Clarendon Press, Oxford.
- Coleman, W. (1977), *Biology in the Nineteenth Century*, Cambridge University Press, Cambridge.
- Collins, H., and Pinch, T. (1998), *The Golem: What You Should Know About Science*, 2nd ed., Cambridge University Press, Cambridge.
- Collins, J. (1965), *A History of Modern European Philosophy*, Bruce Publishing, Milwaukee, WI.
- Conniff, R. (2006), “Animal instincts,” *Guardian*, 27 May.
- Connor, S. (2011), “For the love of God: Scientists in uproar at £1 million religion prize,” *Independent*, 7 April.
- Cooper, D., and Goodenough, L. (2010), “Dark matter annihilation in the galactic center as seen by the Fermi gamma ray space telescope,” <http://arxiv.org/abs/1010.2752>.
- Coopersmith, J. (2010), *Energy. The Subtle Concept: The Discovery of Feynman’s Blocks from Leibniz to Einstein*, Oxford University Press, Oxford.
- Corbett, J. (1986), *Jim Corbett’s India*, Oxford University Press, Oxford.
- Cottrell, J. E., Winer, G. A., and Smith, M. C. (1996), “Beliefs of children and adults about feeling stares of unseen others,” *Developmental Psychology*, 32, 50–61.
- Cramer, J. (1986), “The transactional interpretation of quantum mechanics,” *Reviews of Modern Physics*, 58, 647–88.

- Crick, F. (1966), *Of Molecules and Men*, University of Washington Press, Seattle.
- Crick, F. (1984), "Memory and molecular turnover," *Nature*, 312, 101.
- Crick, F. (1994), *The Astonishing Hypothesis: The Scientific Search for the Soul*, Simon& Schuster, London.
- Crow, M. M. (2011), "Time to rethink the NIH," *Nature*, 471, 569–71.
- Culotta, E. (2005), *Chimp genome catalogs differences with humans*, *Science*, 309, 1468–9.
- Cunningham, A., and Jardine, N. (eds) (1990), *Romanticism and the Sciences*, Cambridge University Press, Cambridge.
- Daily Telegraph (2010), " 'Atheists just as ethical as churchgoers', new research shows", *Daily Telegraph*, 9 February.
- Dalton, K. (1997), "Exploring the links: creativity and psi in the ganzfeld," *Proceedings of the Parapsychological Association 40th Annual Convention*, 119–31.
- Danckwerts, P. V. (1982), *Letter*, *New Scientist*, 11 November, 380–81.
- Darwin, C. (1859), *The Origin of Species*, Murray, London.
- Darwin, C. (1875), *The Variation of Animals and Plants Under Domestication*, Murray, London.
- Darwin, E. (1794–6; reprinted 1974), *Zoonomia*, 2 vols, AMS Press, New York.
- Dasgupta, M. (2010), "DIPAS concludes observational study on 'Mataji,'" *Hindu*, 10 May.
- Davies, P. (1984), *Superforce*, Heinemann, London.
- Davies, P. (2006), *The Goldilocks Enigma: Why is the Universe Just Right For Life?*, Allen Lane, London.
- Dawkins, R. (1976), *The Selfish Gene*, Oxford University Press, Oxford.
- Dawkins, R. (1982), *The Extended Phenotype*, Oxford University Press, Oxford.
- Dawkins, R. (2006), *The God Delusion*, Bantam, London.
- De Bray, E. J. C. (1934), "Velocity of light," *Nature*, 133, 948.
- Dembski, W. (1998), *The Design Inference*, Cambridge University Press, Cambridge.
- Dennett, D. (1991), *Consciousness Explained*, Little, Brown, Boston.
- Dennett, D. (2006), *Breaking the Spell: Religion as a Natural Phenomenon*, Viking, New York.
- D'Espagnat, B. (1976), *Conceptual Foundations of Quantum Mechanics*, Benjamin, Reading, MA.
- De Quincey, C. (2008), "Reality bubbles," *Journal of Consciousness Studies*, 15, 94–101.

- Descartes, R. (1985), *The Philosophical Writings of Descartes*, Cambridge University Press, Cambridge.
- Dijksterhuis, E. J. (1961), *The Mechanization of the World Picture*, Oxford University Press, Oxford.
- Dossey, L. (1991), *Meaning and Medicine*, Bantam Books, New York.
- Driesch, H. (1914), *The History and Theory of Vitalism*, Macmillan, London.
- Dubos, R. (1960), *Pasteur and Modern Science*, Anchor Books, New York.
- Duncan, T., and Kennett, H. (2001), GCSE Physics, Murray, London.
- Dunne, J. W. (1927), *An Experiment With Time*, Faber & Faber, London.
- Dürr, H-P., and Gottwald, F-T. (eds) (1997), Rupert Sheldrake in der Diskussion: Das Wagnis einer neuen Wissenschaft des Lebens, Scherz Verlag, Bern.
- Dyson, F. (1979), *Disturbing the Universe*, Harper & Row, New York.
- Einstein, A., and Born, M. (1971), *The Born-Einstein Letters*, Walker, New York.
- Elgert, K. D. (2009), *Immunology: Understanding the Immune System*, Wiley, Hoboken, NJ.
- Ellis, G. (2011), "The untestable multiverse," *Nature*, 469, 295–295.
- Elsasser, W. M. (1975), *The Chief Abstractions of Biology*, North Holland, Amsterdam.
- Enz, C. P. (2009), "Rational and irrational features in Wolfgang Pauli's life," in *Of Matter and Spirit: Selected Essays by Charles P. Enz*, World Scientific, Hackensack, NJ.
- Evans, D. (2003), *Placebo: The Belief Effect*, HarperCollins, London.
- Fara, P. (2009), *Science: A Four Thousand Year History*, Oxford University Press, Oxford.
- Feyerabend, P. (2010), *Against Method*, 4th ed., Verso, London.
- Feynman, R. (1962), *Quantum Electrodynamics*, Addison-Wesley, Reading, MA.
- Feynman, R. (1964), *The Feynman Lectures on Physics*, Vol. 1, Addison-Wesley, Reading, MA.
- Filippini, G., and Gramaccioli, C. M. (1989), "Benzene crystals at low temperature: A harmonic lattice-dynamical calculation," *Acta Crystallographica*, A45, 261–261.
- Flew, A. (ed.) (1979), *A Dictionary of Philosophy*, Macmillan, London.
- Flynn, J. (2007), *What is Intelligence?*, Cambridge University Press, Cambridge.
- Forster, J. R. (1778), *Observations Made During a Voyage Around the World*, Robinson, London.
- Fox, M., and Sheldrake, R. (1996), *The Physics of Angels: Exploring the Realm Where Science and Spirit Meet*, Harper, San Francisco.

- Frankenfield, D. C. (2010), "On heat, respiration and calorimetry," *Nutrition*, 26, 939–50.
- Freedman, R. R. (1991), "Physiological mechanisms of temperature biofeedback," *Applied Psychophysiology and Biofeedback*, 16, 95–115.
- Fröhlich, F., and McCormick, D. A. (2010), "Endogenous electric fields may guide neocortical network activity," *Neuron*, 67, 129–43.
- Galton, F. (1875), "The history of twins as a criterion of the relative powers of nature and nurture," *Fraser's Magazine*, 12, 566–76.
- Gardner, H. (1974), *The Shattered Mind*, Vintage Books, New York.
- Gerhart, J., and Kirschner, M. (1997), *Cells, Embryos and Evolution*, Blackwell Science, Oxford.
- Gershteyn, M. L., Gershteyn, L. I., Gershteyn, A., and Karagioz, O. V. (2002), "Experimental evidence that the gravitational constant varies with orientation", <http://arxiv.org/pdf/physics/0202058v2>.
- Gervais, R. (2010), "Why I'm an atheist," *Wall Street Journal*, 19 December.
- Gibson, J. J. (1986), *The Ecological Approach to Visual Perception*, Lawrence Erlbaum Associates, Hillsdale, NJ.
- Gilbert, W. (1600; reprinted 1991), *De Magnete*, Dover Books, New York.
- Gilson, E. (1984), *From Aristotle to Darwin and Back Again*, University of Notre Dame Press, Notre Dame, IN.
- Gleik, J. (1988), *Chaos: Making a New Science*, Heinemann, London.
- Goho, A. (2004), "The crystal form of a drug can be the secret of its success," *Science News*, 166, 122–4.
- Goldacre, B. (2009), "Dithering over statins": side-effects label finally ends," *Guardian* 21, November.
- Goldacre, B. (2010), "Medical ghostwriters who build a brand," *Guardian*, 18 September.
- Goldacre, B. (2011), "Backwards step on looking into the future," *Guardian*, 23 April.
- Goodwin, B. (1994), *How the Leopard Changed its Spots*, Weidenfeld & Nicolson, London.
- Gould, S. J. (1989), *Wonderful Life: The Burgess Shale and the Nature of History*, Hutchinson, London.
- Gould, S. J. (1999), *Rock of Ages: Science and Religion in the Fullness of Life*, Ballantine, New York.

- Grant, R., and Halliday, T. (2010), "Predicting the unpredictable: evidence of pre-seismic anticipatory behaviour in the common toad," *Journal of Zoology*, 281, 263–71.
- Gray, Jeffrey (2004), *Consciousness: Creeping Up on the Hard Problem*, Oxford University Press, Oxford.
- Gray, John (2002), *Straw Dogs: Thoughts on Humans and Other Animals*, Granta Books, London.
- Gray, John (2007), *Black Mass: Apocalyptic Religion and the Death of Utopia*, Allen Lane, London.
- Gray, John (2011) *The Immortalization Commission: The Strange Quest to Cheat Death*, Allen Lane, London.
- Grayling, A. C. (2011) "Psychology: how we form beliefs," *Nature* 474, 446–7.
- Green, E. D., and Guyer, M. S. (2011), "Charting a course for genomic medicine from base pairs to bedside," *Nature*, 470, 204–13.
- Greene, B. (2011), *The Hidden Reality: Parallel Universes and the Deep Laws of the Cosmos*, Allen Lane, London.
- Greenfield, S. (2000), *Brain Story: Unlocking Our Inner World of Emotions, Memories, Ideas and Desires*, BBC, London.
- Griffin, D. R. (1998), *Unsnarling the World-Knot: Consciousness, Freedom and the Mind-Body Problem*, Wipf & Stock, Eugene, OR.
- Griffin, D. R. (2000), *Religion and Scientific Naturalism: Overcoming the Conflicts*, State University of New York Press, Albany, NY.
- Grundlach, J. H., and Merkwitz, S. M. (2000), "Measurement of Newton's constant using a torsion balance with acceleration feedback," *Physical Review Letters*, 85, 2869–72.
- Haemmerling, J. (1963), "Nucleo-cytoplasmic interactions in *Acetabularia* and other cells," *Annual Reviews of Plant Physiology*, 14, 65–92.
- Hamilton, C. (2005), "Chasing immortality: the technology of eternal life," *What Is Enlightenment?*, 30, 16–19.
- Hampshire, S. (1951), *Spinoza*, Penguin, Harmondsworth.
- Hansen, J. (2010), *Biotechnology and Public Engagement in Europe*, Palgrave Macmillan, London.
- Harman, P. M. (1982), *Energy, Force and Matter: The Conceptual Development of Nineteenth-Century Physics*, Cambridge University Press, Cambridge.

- Hawking, S. (1988), *Is the End in Sight for Theoretical Physics?*, Cambridge University Press, Cambridge.
- Hawking, S., and Mlodinow, L. (2010), *The Grand Design: New Answers to the Ultimate Questions of Life*, Bantam Press, London.
- Hazen, R. (1989), "Battle of the supermen," *Guardian*, 15 April.
- Heglund, N. C., Willems, P. A., Penta, M., and Cavagna, G. A. (1995), "Energy-saving gait mechanics with head-supported loads," *Nature*, 375, 52–4.
- Henry, J. (ed.) (2005), *Parapsychology: Research on Exceptional Experiences*, Routledge, Hove.
- Hettinger, T. P. (2010), "Misconduct: don't assume science is self-correcting," *Nature*, 466, 1040.
- Hinde, R. A. (1982), *Ethology*, Fontana, London.
- Hodges, A. (1983), *Alan Turing: The Enigma of Intelligence*, Hutchinson, London.
- Holden, A., and Singer, P. (1961), *Crystals and Crystal Growing*, Heinemann, London.
- Holder, N. (1981), "Regeneration and compensatory growth," *British Medical Bulletin*, 37, 227–32.
- Holding, S. C., Stacey, F. D., and Tuck, G. J. (1986), "Gravity in mines—an investigation of Newton's law," *Physics Review Letters* D, 33, 3487–94.
- Horgan, J. (1997a), "Get smart, take a test: A long term rise in IQ scores baffles intelligence experts," *Scientific American*, November, 10–11.
- Horgan, J. (1997b), *The End of Science: Facing the Limits of Knowledge in the Twilight of the Scientific Age*, Little, Brown, London.
- Horgan, J. (2003), *Rational Mysticism: Dispatches from the Border Between Science and Spirituality*, Houghton Mifflin, Boston.
- Horn, G. (1986), *Memory, Imprinting and the Brain: An Inquiry into Mechanisms*, Clarendon Press, Oxford.
- Howe, D., and Rhee, S. Y. (2008), "The future of biocuration," *Nature*, 455, 47–8.
- Hume, D. (2008), *Dialogues Concerning Natural Religion*, Oxford University Press, Oxford.
- Humphrey, N. (2011), *Soul Dust: The Magic of Consciousness*, Quercus, London.
- Hunter, I. M. L. (1964), *Memory*, Penguin, Harmondsworth.

- Huxley, F. (1959), "Charles Darwin: life and habit," *American Scholar* (Fall/Winter), 1–19.
- Huxley, T. H. (1867), *Hardwicke's Science Gossip*, 3, 74.
- Huxley, T. H. (1893), *Methods and Results*, Macmillan, London.
- Iacono, W. G., and McGue, M. (2002), "Minnesota Twin Family Study," *Twin Studies*, 5, 482–7.
- Inge, W. R. (1929), *The Philosophy of Plotinus*, Longmans, London.
- Jennings, H. S. (1906), *Behavior of the Lower Organisms*, Columbia University Press, New York.
- Jones, J. D. G., and Dangl, J. L. (2006), "The plant immune system," *Nature*, 444, 323–9.
- Kahn, F. (1949), *The Secret of Life: The Human Machine and How It Works*, Odhams, London.
- Kandel, E. R. (2003), "The molecular biology of memory storage: a dialogue between genes and synapses," in Jormvall, H. (ed), *Nobel Lectures, Physiology or Medicine 1995–2000*, World Scientific, Singapore.
- Kandel, E. R., Schwartz, J. H., and Jessell, T. M. (1995), *Essentials of Neuroscience and Behavior*, Appleton & Lang, Norwalk, CT.
- Kaptchuck, T. J. (1998), "Intentional ignorance: a history of blind assessment in medicine," *Bulletin of the History of Medicine*, 72, 389–443.
- Kealey, T. (1996), *The Economic Laws of Scientific Research*, Macmillan, London.
- Kekreja, L. M. (2009), "Calls to counter science scepticism are irrelevant in India," *Nature*, 459, 321.
- Khoury, M. J., Evans, J., and Burke, W. (2010), "A reality check for personalized medicine," *Nature*, 464, 680.
- Kiernan, V. (1995), "Gravitational constant is up in the air," *New Scientist*, 29 April, 18.
- Kirsch, I. (2009), *The Emperor's New Drugs: Exploding the Antidepressant Myth*, Bodley Head, London.
- Kirsch, I. (2010), "Not all placebos are born equal," *New Scientist*, 11 December, 30–33.
- Klein, M., and Kandel, E. R. (1978), "Presynaptic modulation of voltage-dependent Ca²⁺ current: mechanism for behavioral sensitization in *Aplysia californica*," *Proceedings of the National Academy of Sciences USA*, 75, 3512–16.
- Koenig, H. (2008), *Medicine, Religion and Health: Where Science and Spirituality Meet*, Templeton Foundation Press, West Conshohocken, PA.

- Koestler, A. (1967), *The Ghost in the Machine*, Hutchinson, London.
- Kreitzer, M. J., and Riff, K. (2011), "Spirituality and heart health," in Devries, S., and Dalen, J. E. (eds), *Integrative Cardiology*, Oxford University Press, New York.
- Kretzman, N., and Stump, E. (eds) (1993), *The Cambridge Companion to Aquinas*, Cambridge University Press, Cambridge.
- Krippner, S., and Friedman, H. L. (eds) (2010), *Debating Psychic Experience: Human Potential or Human Illusion*, Praeger, Santa Barbara, CA.
- Krönig, J. (1992), *Spuren, Zweitausendeins*, Frankfurt.
- Kuhn, T. S. (1959), "Energy conservation as an example of simultaneous discovery," in Clagett, M. (ed.), *Critical problems in the History of Science*, University of Wisconsin Press, Madison, WI.
- Kuhn, T. S. (1970), *The Structure of Scientific Revolutions*, 2nd ed., University of Chicago Press, Chicago.
- Lamarck, J.-B. (1914), *Zoological Philosophy*, Macmillan, London.
- Laplace, P. S. (1819; reprinted 1951), *A Philosophical Essay on Probabilities*, Dover, New York.
- Lashley, K. S. (1929), *Brain Mechanisms and Intelligence*, Chicago University Press, Chicago.
- Lashley, K. S. (1950), "In search of the engram," *Symposium of the Society for Experimental Biology*, 4, 454–83.
- Laszlo, E. (2007), *Science and the Akashic Field*, Inner Traditions, Rochester, VT.
- Latham, J. (2011), "The failure of the genome," *Guardian*, 18 April.
- Latour, B. (1987), *Science in Action: How to Follow Scientists and Engineers Through Society*, Harvard University Press, Cambridge, MA.
- Latour, B. (2009), *Politics of Nature: How to Bring the Sciences into Democracy*, Harvard University Press, Cambridge, MA.
- Lear, J. (1965), *Kepler's Dream*, University of California Press, Berkeley.
- Le Fanu, J. (2000), *The Rise and Fall of Modern Medicine*, Abacus, London.
- Lehar, S. (1999), "Gestalt isomorphism and the quantification of spatial perception," *Gestalt Theory*, 21, 122–39.
- Lehar, S. (2004), "Gestalt isomorphism and the primacy of subjective conscious experience," *Behavioral and Brain Sciences*, 26, 375–444.

- Lewin, R. (1980), "Is your brain really necessary?," *Science*, 210, 1232.
- Libet, B. (1999), "Do we have free will?," *Journal of Consciousness Studies*, 6, 47–57.
- Libet, B. (2003), "Can conscious experience affect brain activity?," *Journal of Consciousness Studies*, 10, 24–8.
- Libet, B. (2006), "Reflections on the interaction of the mind and brain," *Progress in Neurobiology*, 78, 322–6.
- Libet, B., Elwood, W., Feinstein, B., and Pearl, D. K. (1979), "Subjective referral of the timing for a conscious sensory experience," *Brain*, 102, 193–224.
- Lightman, B. V. (2007), *Victorian Popularizers of Science: Designing Nature for New Audiences*, University of Chicago Press, Chicago.
- Lindberg, D. C. (1981), *Theories of Vision from Al-Kindi to Kepler*, Chicago University Press, Chicago.
- Lobach, E., and Bierman, D. J. (2004), "Who's calling at this hour? Local sidereal time and telephone telepathy," in *Proceedings of the 47th Parapsychological Association Annual Convention* (pp. 91–7), Vienna.
- Long, C. H. (1983), *Alpha: The Myths of Creation*, Oxford University Press, New York.
- Long, W. (1919), *How Animals Talk*, Harper, New York.
- Long, W. (2005, reprinted), *How Animals Talk*, Park Street Press, Rochester, VT.
- Lorayne, H. (1950), *How to Develop a Super-Power Memory*, Thomas, Preston.
- Lu, J., Tapia, J. C., White, O. L., and Lichtman, J. W. (2009), "The interscutularis muscle connectome," *Public Library of Science Biology*, e 1000032. doi:10.1371/journal.pbio.1000032.
- Luria, A. R. (1970), "The functional organization of the brain," *Scientific American*(3) 222, 66–78,.
- Luria, A. R. (1973), *The Working Brain*, Penguin, Harmondsworth.
- Maddox, J. (1981), "A book for burning?," *Nature*, 293, 245–6.
- Malhotra, R., Holman, M., and Ito, T. (2001), "Chaos and stability of the solar system," *Proceedings of the National Academy of Sciences US*, 98, 12342–3.
- Manolio, T. A., Collins, F. S., and twenty-five others (2009), "Finding the missing heritability of complex diseases," *Nature*, 461, 747–53.
- Mason, A. A. (1955), "Ichthyosis and hypnosis," *British Medical Journal*, 2 July, 57–8.

- Mayr, E. (1982), *The Growth of Biological Thought*, Harvard University Press, Cambridge ,MA.
- McLuhan, R. (2010), *Randi's Prize: What Skeptics Say About the Paranormal, Why They Are Wrong and Why It Matters*, Matador, Leicester.
- Medawar, P. B. (1990), *The Threat and the Glory: Reflections on Science and Scientists*, HarperCollins, London.
- Medvedev, Z. A. (1969), *The Rise and Fall of T. D. Lysenko*, Columbia University Press, New York.
- Meri, J. W. (2005), *Medieval Islam Civilization: An Encyclopedia*. Routledge, London.
- Michaels, D. (2005), "Doubt is their product," *Scientific American*, June.
- Midgley, M. (2002), *Evolution As A Religion*, Routledge, London.
- Milton, J. and Wiseman R. (1999), "Does psi exist? Lack of replication of an anomalous process of information transfer," *Psychological Bulletin*, 125, 387–391.
- Milton, J. (1999), "Should ganzfeld research continue to be crucial in the search for a replicable psi effect?," *Journal of Parapsychology*, 63, 309–33.
- Mitchell, M. (2009), *Complexity: A Guided Tour*, Oxford University Press, New York.
- Moerman, D.E. (2002), *Meaning, Medicine and the "Placebo Effect"*, Cambridge University Press, Cambridge.
- Mohr, P. J., and Taylor, B. N. (2001), "Adjusting the values of the fundamental constants," *Physics Today*, 54, 29.
- Moncrieff, J. (2009), *The Myth of the Chemical Cure: A Critique of Psychiatric Drug Treatment*, Palgrave Macmillan, London.
- Monod, J. (1972), *Chance and Necessity*, Collins, London.
- Munowitz, M. (2005), *Knowing: The Nature of Physical Law*, Oxford University Press, Oxford.
- Murphy, G., and Ballou, R.O. (eds) (1961), *William James on Psychical Research*, Chatto and Windus, London.
- Mussachia, M. (1995), "Objectivity and repeatability in science," *Skeptical Inquirer*, 19 (6), 5–33, 56.
- National Science Board (2010), *Science and Engineering Indicators 2010*, National Science Foundation, Washington.
- Nature (2010), "News briefing," *Nature*, 467, 11.

- Nature (2011), Editorial, "Best is yet to come," Nature 470, 140.
- Needham, J. (1959), *A History of Embryology*, Cambridge University Press, Cambridge.
- Nemethy, G., and Scheraga, H. A. (1977), "Protein folding," Quarterly Review of Biophysics, 10, 239–352.
- Newton, I. (1704; reprinted 1952), *Opticks*, Dover Publications, New York.
- Nietzsche, F. W. (1911), "Eternal recurrence: the doctrine expounded and substantiated "in The Complete Works of Friedrich Nietzsche, Vol. 16, ed. O. Levy, Foulis, Edinburgh.
- Noble, D. (2006), *The Music of Life: Biology Beyond the Genome*, Oxford University Press, Oxford.
- Noë, A. (2009), *Out of Our Heads: Why You Are Not Your Brain, and Other Lessons from the Biology of Consciousness*, Hill & Wang, New York.
- Nordenskiöld, E. (1928), *The History of Biology*, Tudor, New York.
- Olsen, M. V., and Varki, A. (2004), "The chimpanzee genome—a bittersweet celebration," Science, 305, 191–2.
- Oreskes, N. and Conway, E. K. (2010), *Merchants of Doubt: How a Handful of Scientists Obscured the Truth on Issues from Tobacco Smoke to Global Warming*, Bloomsbury Press, New York.
- Ostriker, J. P., and Steinhardt, P. J. (2001), "The quintessential universe," Scientific American, January, 46–53.
- Pagels, H. R. (1983), *The Cosmic Code*, Michael Joseph, London.
- Paley, W. (1802), *Natural Theology*, J. Vincent, Oxford.
- Partridge, E. (1961), *Origins*, Routledge & Kegan Paul, London.
- Pattie, F. (1941), "The production of blisters by hypnotic suggestion: a review," Journal of Abnormal and Social Psychology, 36, 62–72.
- Pauli, W., and Jung, C. G. (2001), *Atom and Archetype: The Pauli/Jung Letters 1932–1958*, Princeton University Press, Princeton.
- Penfield, W. (1975), *The Mystery of the Mind*, Princeton University Press, Princeton.
- Penfield, W., and Roberts L. (1959), *Speech and Brain Mechanisms*, Princeton University Press, Princeton.
- Penrose, R. (2010), *Cycles of Time: An Extraordinary New View of the Universe*, Bodley Head, London.

- Petley, B. W. (1985), *The Fundamental Physical Constants and the Frontiers of Metrology*, Adam Hilger, Bristol.
- Petronis, A. (2010), "Epigenetics as a unifying principle in the aetiology of complex traits and diseases," *Nature*, 465, 721–7.
- Piaget, J. (1973), *The Child's Conception of the World*, Granada, London.
- Pisano, G. P. (2006), *Science Business: The Promise, the Reality and the Future of Biotech*, Harvard Business School, Boston, MA.
- Plato (2000, trans. B. Jowett), *The Republic*, Dover Books, New York.
- Plotinus, trans. MacKenna, S. (1956), *The Enneads*, Faber & Faber, London.
- Popper, K. R., and Eccles. J. C. (1977), *The Self and Its Brain*, Springer International, Berlin.
- Potters, V. G. (1967), C. S. Peirce on Norms and Ideals, University of Massachusetts, Worcester, MA.
- Pribram, K. H. (1971), *Languages of the Brain*, Prentice Hall, Englewood Cliffs, NJ.
- Pribram, K. H. (1979), "Transcending the mind-brain problem," *Zygon*, 14, 103–24.
- Qiu, J. (2006), "Unfinished symphony," *Nature*, 441, 143–5.
- Radin, D. (1997), *The Conscious Universe: The Scientific Truth of Psychic Phenomena*, HarperCollins, San Francisco.
- Radin, D. (2007), *Entangled Minds: Extrasensory Experiences in a Quantum Reality*, Paraview Pocket Books, New York.
- Recordon, E. G., Stratton, F. J. M., and Peters, R. A. (1968), "Some trials in a case of alleged telepathy," *Journal of the Society for Psychical Research*, 44, 390–399.
- Rees, M. (1997), *Before the Beginning: Our Universe and Others*, Simon & Schuster, London.
- Rees, M. (2004), *Our Final Century: The 50/50 Threat to Humanity's Survival*, Arrow, London.
- Reich, E. S. (2010), "G-whizzes disagree over gravity," *Nature*, 466, 1030.
- Reiche, E. M. V., Nunes, S. O. V., and Morimoto, H. K. (2005), "Stress, depression, the immune system and cancer," *Lancet Oncology*, 5, 617–25.
- Rizzolatti, G., Fadiga, L., Fogassi, L., and Gallese, V. (1999) "Resonance behaviors and mirror neurons," *Archives Italiennes de Biologie*, 137, 85–100.

- Roberts, A. H., Kewman, D. G., Mercier, L., and Hovell, H. (1993), "The power of nonspecific effects in healing: implications for psychosocial and biological treatments," *Clinical Psychology Review*, 13, 375–91.
- Robertson, B. E., Ellis, R. S., Dunlop, J. S., McLure, R. J., and Stark, D. P. (2010), "Early star-forming galaxies and the reionization of the universe," *Nature*, 468, 49–55.
- Rose, S. P. R. (1986), "Memories and molecules," *New Scientist*, 112 (27 November), 40–44.
- Rose, S. P. R., and Csillag, A. (1985), "Passive avoidance training results in lasting changes in deoxyglucose metabolism in left hemisphere regions of chick brain," *Behavioural and Neural Biology*, 44, 315–24.
- Rose, S. P. R., and Harding, S. (1984), "Training increases 3H fucose incorporation in chick brain only if followed by memory storage," *Neuroscience*, 12, 663–7.
- Rosenthal, R. (1976), *Experimenter Effects in Behavioral Research*, John Wiley, New York.
- Royal Society (2005), *A Degree of Concern? UK First Degrees in Science, Technology and Mathematics*, Royal Society Policy Document 32 /06, London.
- Royal Society (2011), *Knowledge, Networks and Nations: Global Scientific Collaboration in the 21st Century*, Royal Society Policy Document 03 /11, London.
- Rubery, P. H. and Sheldrake, R. (1974) "Carrier-mediated auxin transport," *Planta*, 118, 101–210.
- Russell, B. (1921), *Analysis of Mind*, Allen and Unwin, London.
- Russell, E.S. (1945), *The Directiveness of Organic Activities*, Cambridge University Press, Cambridge.
- Sacks, O. (1985), *The Man Who Mistook His Wife for a Hat*, Duckworth, London.
- Saltmarsh, F. H. (1938), *Foreknowledge*, Bell, London.
- Sample, I. (2010), "Spending review spares science budget from deep cuts," *Guardian*, 19 October.
- Sarton, G. (1955), *Introductory essay*, in J. Needham, ed., *Science, Religion and Reality*, Braziller, New York.
- Satprem (2000), *Sri Aurobindo or the Adventure of Consciousness*, Mira Aditi Centre, Mysore.
- Schelling, F. von (1988), *Ideas for a Philosophy of Nature*, Cambridge University Press, Cambridge.

- Schmidt, S., Erath, D., Ivanova, V., and Walach, H. (2009), "Do you know who is calling? Experiments on anomalous cognition in phone call receivers," *Open Psychology Journal*, 2, 12–18.
- Schmidt, S., Schneider, R., Utts, J., and Walach, H. (2004), "Distant intentionality and the feeling of being stared at: Two meta-analyses," *British Journal of Psychology*, 95, 235–47.
- Schnabel, U. (2009), "Ein Portwein auf die Gene," *Die Zeit*, 9 July.
- Schwarz, J. P., Robertson, D. S., Niebauer, T. M., and Fuller, J. E. (1998), "A free-fall determination of the Newtonian constant of gravity," *Science*, 282, 2230–34.
- Searle, J. (1992), *The Rediscovery of the Mind*, MIT, Cambridge, MA.
- Searle, J. (1997), "Consciousness and the philosophers," *New York Review of Books*, 6 March, 43–50.
- Shannon, B. (2002), *Antipodes of the Mind: Charting the Phenomenology of the Ayahuasca Experience*, Oxford University Press, Oxford.
- Sheldrake, R. (1973)? "The production of hormones in higher plants," *Biological Reviews*, 509–99, 48.
- Sheldrake, R. (1974), "The ageing death cells' growth," *Nature*, 250, 381–50.
- Sheldrake, R. (1981; second ed. 1985); *A New Science of Life: The Hypothesis of Formative Causation*, Blond & Briggs, London.
- Sheldrake, R. (1984), "Pigeon pea physiology," in *The Physiology of Tropical Crops* (ed. P. H. Goldsworthy), Blackwell, Oxford.
- Sheldrake, R. (1987), "A perennial cropping system for pigeonpea grown in post-rainy season," *Indian Journal of Agricultural Sciences*, 57, 895–9.
- Sheldrake, R. (1988a), *The Presence of the Past: Morphic Resonance and the Habits of Nature*, Collins, London.
- Sheldrake, R. (1988b), "Cattle fooled by phoney grids," *New Scientist*, 11 February, 65.
- Sheldrake, R. (1990), *The Rebirth of Nature: The Greening of Science and God*, Century, London.
- Sheldrake, R. (1992a), "An experimental test of the hypothesis of formative causation," *Biology Forum*, 85, 431–43.
- Sheldrake, R. (1992b), "Rose refuted," *Biology Forum*, 85, 455–60.
- Sheldrake, R. (1994), *Seven Experiments That Could Change the World: A Do-It-Yourself Guide to Revolutionary Science*, Fourth Estate, London.

- Sheldrake, R. (1998a), "Perceptive pets with puzzling powers: three surveys", International Society for Anthrozoology Newsletter, 15, 2–5.
- Sheldrake, R. (1998b), "Experimenter effects in scientific research: how widely are they neglected?" Journal of Scientific Exploration, 12, 73–8.
- Sheldrake, R. (1998c), "Could experimenter effects occur in the physical and biological sciences?," Skeptical Inquirer, 22, 57–8.
- Sheldrake, R. (1999a), *Dogs That Know When Their Owners Are Coming Home, and Other Unexplained Powers of Animals*, Hutchinson, London.
- Sheldrake, R. (1999b), "Commentary on a paper by Wiseman, Smith and Milton on the 'psychic pet' phenomenon," Journal of the Society for Psychical Research, 63, 306–11.
- Sheldrake, R. (1999c), "How widely is blind assessment used in scientific research?" Alternative Therapies, 5, 88–91.
- Sheldrake, R. (1999d), "Blind belief," Skeptic, 12 (2), 7–8.
- Sheldrake, R. (2000), "The 'psychic pet' phenomenon," Journal of the Society for Psychical Research, 64, 126–8.
- Sheldrake, R. (2001), "Personally speaking," New Scientist, 19 July.
- Sheldrake, R. (2003a), *The Sense of Being Stared At, and Other Aspects of the Extended Mind*, Crown, New York.
- Sheldrake, R. (2003b), "Set them free," New Scientist, 19 April.
- Sheldrake, R. (2003c), "Really popular science," New York Times, 4 January.
- Sheldrake, R. (2004a), "Are we active? Or should the passive be used?," School Science Review, 86, 8–10.
- Sheldrake, R. (2004b), "Public participation: let the public pick projects," Nature, 432271,.
- Sheldrake, R. (2005a), "The sense of being stared at. Part 1. Is it real or illusory?," Journal of Consciousness Studies, 12, 10–31.
- Sheldrake, R. (2005a), "The sense of being stared at Part 2. Its implications for theories of vision," Journal of Consciousness Studies, 12, 32–49.
- Sheldrake (2005c), "Why did so many animals escape December's tsunami?," Ecologist, March.
- Sheldrake, R. (2009), *A New Science of Life* (3rd ed.), Icon Books, London.

- Sheldrake, R. (2011a), *Dogs That Know When Their Owners Are Coming Home*, and Other Unexplained Powers of Animals (2nd ed.), Three Rivers Press, New York.
- Sheldrake, R. (2011b), *The Presence of the Past: Morphic Resonance and the Habits of Nature* (2nd ed.), Icon Books, London.
- Sheldrake, R., and Avraamides, L. (2009), "An automated test for telepathy in connection with emails," *Journal of Scientific Exploration*, 23, 29–36.
- Sheldrake, R., Avraamides, L., and Novak, M. (2009), "Sensing the sending of SMS messages: An automated test," *Explore: The Journal of Science and Healing*, 5, 272–6.
- Sheldrake, R., and Beeharee, A. (2009), "A rapid online telepathy test," *Psychological Perspectives*, 104, 957–70.
- Sheldrake, R., and Fox, M. (1996), *Natural Grace: Dialogues on Science and Spirituality*, Bloomsbury, London.
- Sheldrake, R., and Lambert, M. (2007), "An automated online telepathy test," *Journal of Scientific Exploration*, 21, 511–22.
- Sheldrake, R., McKenna, T., and Abraham, R. (2002), *Chaos, Creativity and Cosmic Consciousness*, Part Street Press, Rochester, VT.
- Sheldrake, R., McKenna, T., and Abraham, R. (2005), *The Evolutionary Mind: Conversations on Science, Imagination and Spirit*, Monkfish Books, Rhinebeck, NY.
- Sheldrake, R., and Moir, G. F. J. (1970), "A cellulase in Hevea later," *Physiologia Plantarum*.
- Sheldrake, R., and Morgana, A. (2003), "Testing a language-using parrot for telepathy," *Journal of Scientific Exploration*, 17, 601–15.
- Sheldrake, R., and Smart, P. (1998), "A dog that seems to know when his owner is returning: Preliminary investigations," *Journal of the Society for Psychical Research*, 62220–32 .,
- Sheldrake, R., and Smart, P. (2000a), "A dog that seems to know when his owner is coming home: Videotaped experiments and observations," *Journal of Scientific Exploration*, 14, 233–55.
- Sheldrake, R., and Smart, P. (2000b), "Testing a return-anticipating dog, Kane", *Anthrozoos*, 13, 203–12.
- Sheldrake, R., and Smart, P. (2003a), "Experimental tests for telephone telepathy", *Journal of the Society for Psychical Research*, 67, 174–99.
- Sheldrake, R., and Smart, P. (2003b), "Videotaped experiments on telephone telepathy", *Journal of Parapsychology*, 67, 147–66.

- Sheldrake, R., and Smart, P. (2005), "Testing for telepathy in connection with e-mails", *Perceptual and Motor Skills*, 101, 771–86.
- Shermer, M. (2011), *The Believing Brain: From Ghosts and Gods to Politics and Conspiracies —How We Construct Beliefs and Reinforce them as Truths*, Times Books, New York.
- Silverman, S. (2009), "Placebos are getting more effective. Drugmakers are desperate to know why," *Wired*, 24 August.
- Sinclair, U. (1930), *Mental Radio*, Werner Laurie, London.
- Singh, S. (2004), *Big Bang*, Fourth Estate, London.
- Singh, S., and Ernst, E. (2009), *Trick or Treatment? Alternative Medicine on Trial*, Corgi Books, London.
- Skrbina, D. (2003), "Panpsychism as an underlying theme in Western philosophy", *Journal of Consciousness Studies*, 10, 4–46.
- Smith, A. P. (1978), "An investigation of the mechanisms underlying nest construction in the mud wasp *Paralastor* sp.," *Animal Behaviour*, 26, 232–40.
- Smolin, L. (2006), *The Trouble With Physics: The Rise of String Theory, The Fall of a Science, and What Comes Next*, Allen Lane, London.
- Smolin, L. (2010), "Space-time turnaround," *Nature*, 467, 1034–5.
- Smuts, J. C. (1926), *Holism and Evolution*, Macmillan, London.
- Sobel, D. (1998), *Longitude: The True Story of a Scientific Genius Who Solved the Greatest Scientific Problem of His Time*, Fourth Estate, London.
- Spinoza, B. (2004), *Ethics*, Penguin Classics, London.
- Squire, L. R. (1986), "Mechanisms of memory," *Science*, 232, 1612–19.
- Stephenson, L. M. (1967), "A possible annual variation of the gravitational constant", *Proceedings of the Physical Society*, 90, 601–4.
- Stevenson, I. (1997), *Where Reincarnation and Biology Intersect*, Praeger, Westport, CT.
- Stier, K. (2010), "Curbing drug-company abuses: are fines enough?," *Time*, 30 May <http://www.time.com/time/business/article/0,8599,199091000.html>.
- Strawson, G. (2006), "Realistic monism: why physicalism entails panpsychism," *Journal of Consciousness Studies*, 13, 3–31.
- Suzuki, D. T. (1998), *Studies in the Lakavatara Sutra*, Munshiram Manoharlal Publishers, New Delhi.

- Tarnas, R. (1991), *The Passion of the Western Mind*, Harmony Books, New York.
- Tegmark, M. (2007), "The multiverse hierarchy," in Carr (ed.) (2007).
- Temel, J. S., Greer, J. A., Muzikansky, A., Gallagher, E. R., Admane, A., Jackson, V. A., Dahlin, C. M., Blinderman, C. D., Jacobsen, J., Pirl, W. F., Billings, J. A., and Lynch, T. J. (2010), "Early palliative care for patients with metastatic non-small-cell lung cancer," *New England Journal of Medicine*, 363, 733–42.
- Thom, R. (1975), *Structural Stability and Morphogenesis*, Benjamin, Reading, MA.
- Thom, R. (1983), *Mathematical Models of Morphogenesis*, Ellis Horwood, Chichester.
- Thompson, E., Palacios, A., and Varela, F. J. (1992), "Ways of coloring: Comparative color vision as a case study for cognitive science," *Behavioral and Brain Sciences*, 15, 1–26.
- Thomson, W. (1852), "On a universal tendency in nature to the dissipation of mechanical energy," *Proceedings of the Royal Society of Edinburgh*, 19 April.
- Thurston, H. (1952), *The Physical Phenomena of Mysticism*, Burns Oates, London.
- Time (1952), "Medicine: entranced skin," *Time*, 1 September.
- Trachtman, P. (2000), "Redefining robots," *Smithsonian Magazine*, February, 97–112.
- UK Government (2010), *Healthy Lives, Healthy People*, HM Stationery Office, London.
- UK Office of Science and Technology (2000), *Science and the Public: A Review of Science Communication and Public Attitudes to Science in Britain*, UK Department of Trade and Industry, London.
- Ullman, M., Krippner, S. and Vaughan, A. (1973), *Dream Telepathy Experiments in Nocturnal ESP*, Macmillan, New York.
- Van der Post, L. (1962), *The Lost World of the Kalahari*, Penguin, London.
- Velmans, M. (2000), *Understanding Consciousness*, Routledge, London.
- Venter, C. (2007), *A Life Decoded*, Allen Lane, London.
- Viveiros de Castro, E. B. (2004), "Exchanging perspectives: the transformation of objects into subjects in Amerindian ontologies," *Common Knowledge*, 10, 463–84.
- Waddington, C. H. (1957) *The Strategy of the Genes*, Allen and Unwin, London.
- Wallace, B. A. (2009), *Mind in the Balance: Meditation in Science*, Buddhism and Christianity, Columbia University Press, New York.
- Wallace, W. (1911), "Descartes," *Encyclopaedia Britannica* (11th ed.), Cambridge University Press, Cambridge.

- Wallace, A. R. (2000), *The Taboo of Subjectivity*, Oxford University Press, Oxford.
- Watkins, A. J., Goldstein, D. A., Lee, L. C., Pepino, C. J., Tillett, S. L., Ross, F. E., Wilder, E. M., Zachary, V. A., and Wright, W. G. (2010), "Lobster Attack Induces Sensitization in the Sea Hare, *Aplysia californica*," *Journal of Neuroscience*, 30, 11028–31.
- Watson, J. D., and Crick, F. H. C. (1953), "A structure for deoxyribose nucleic acid", *Nature*, 171, 737–8.
- Watson, P. (1981), *Twins: An Investigation into the Strange Coincidences in the Lives of Separated Twins*, Hutchinson, London.
- Watt, C., and Nagtegaal, M. (2004), "Reporting of blind methods: an interdisciplinary survey," *Journal of the Society for Psychical Research*, 68, 105–14.
- Webb, P. (1980), "The measurement of energy exchange in man: an analysis," *American Journal of Clinical Nutrition*, 33, 1299–1310.
- Webb P. (1991), "The measurement of energy expenditure," *Journal of Nutrition*, 121:1897–1901 .,
- Weber, R. (1986), *Dialogues with Scientists and Sages: The Search for Unity*, Routledge& Kegan Paul, London.
- Wegner, D. (2002), *The Illusion of Conscious Will*, MIT, Cambridge, MA.
- Weil, A. (2004), *Health and Healing: The Philosophy of Integrative Medicine*, Houghton Mifflin, Boston, MA.
- Weiss, P. (1939), *Principles of Development*, Holt, New York.
- Westfall, R. S. (1980), *Never at Rest: A Biography of Isaac Newton*, Cambridge University Press, Cambridge.
- Whitehead, A. N. (1925), *Science and the Modern World*, Macmillan, New York.
- Whitehead, A. N. (1954), *Dialogues of Alfred North Whitehead*, Little, Brown, Boston.
- Whitehead, A. N. (1978), *Process and Reality: An Essay in Cosmology*, Free Press, New York.
- Whitfield, J. (2004), "Telepathy charm seduces audience at paranormal debate," *Nature* 277 .427.,
- Wicherts, J. M., Borsboom, D., Kats, J., and Molenaar, D. (2006), "The poor availability of psychological research data for reanalysis," *American Psychologist*, 61, 726–8.
- Wilber, K. (ed.) (1982), *The Holographic Paradigm and Other Paradoxes*, Shambala ,Boulder.
- Wilber, K., (ed.) (1984), *Quantum Questions*, Shambala, Boulder.
- Will, C. (1971), "Relativistic gravity in the solar system II. Anisotropy in the Newtonian gravitational constant," *Astrophysical Journal*, 169, 141–55.

- Willis, A. (2009), "Immortality only 20 years away says scientist," Daily Telegraph, 22 September.
- Wilsdon, J., Wynne, B., and Stilgoe, J. (2005), *The Public Value of Science: Or How to Ensure That Science Really Matters*, Demos, London.
- Winer, G. A., and Cottrell, J. E. (1996), "Does anything leave the eye when we see"?, *Current Directions in Psychological Science*, 5, 137–42.
- Winer, G. A., Cottrell, J. E., Gregg, V. A., Fournier, J. S., and Bica, L. A. (2002), "Fundamentally misunderstanding visual perception: Adults' beliefs in visual emissions," *American Psychologist*, 57, 417–24.
- Winer, G. A., Cottrell, J. E., Karefilaki, K. D., and Gregg, V. A. (1996), "Images, words and questions: Variables that influence beliefs about vision in children and adults", *Journal of Experimental Child Psychology*, 63, 499–525.
- Wiseman, R. (2011), *Paranormality: Why We See What Isn't There*, Macmillan, London.
- Wiseman, R., Smith, M., and Milton, J. (1998), "Can animals detect when their owners are returning home? An experimental test of the 'psychic pet' phenomenon," *British Journal of Psychology*, 89, 453–62.
- Wiseman, R., Smith, M., and Milton, J. (2000), "The 'psychic pet' phenomenon: A reply to Rupert Sheldrake," *Journal of the Society for Psychical Research*, 64, 46–9.
- Wiseman, R., and Watt, C. (1999), "Rupert Sheldrake and the objectivity of science", *Skeptical Inquirer*, 23 (5), 61–2.
- Wittgenstein, L. (1967), Zettel, Blackwell, Oxford.
- Woit, P. (2007), *Not Even Wrong: The Failure of String Theory and the Continuing Challenge to Unify the Laws of Physics*, Basic Books, New York.
- Wolf, F. A. (1984), *Star Wave*, Macmillan, New York.
- Wolpert, L., and Sheldrake, R. (2009), "What can DNA tell us? Place your bets now", *New Scientist*, 8 July.
- Wood, D. C. (1982), "Membrane permeabilities determining resting, action and mechanoreceptor potentials in *Stentor coeruleus*," *Journal of Comparative Physiology* 537–50 ,146 ,.
- Wood, D. C. (1988), "Habituation in *Stentor* produced by mechanoreceptor channel modification," *Journal of Neuroscience*, 8, 2254–8.
- Woodard, G. D., and McCrone, W. C. (1975), "Unusual crystallization behavior," *Journal of Applied Crystallography*, 8, 342.

- World Health Organization (2003), *Acupuncture: Review and Analysis of Reports on Controlled Clinical Trials*, World Health Organization, Geneva.
- Wright, L. (1997), *Twins: Genes, Environment and the Mystery of Identity*, Weidenfeld and Nicolson, London.
- Wroe, A. (2007), *Being Shelley: The Poet's Search for Himself*, Vintage Books, London.
- Yates, F. A. (1969), *The Art of Memory*, Penguin, Harmondsworth.
- Young, E. (2008), "Rewriting Darwin: the new non-genetic inheritance," *New Scientist*, 9 July.
- Zajonc, A. (1993), *Catching the Light: The Entwined History of Light and Mind*, Bantam Books, New York.
- Zhang, B., Wright, A. A., Huskamp, H. A., Nilsson, M. E., Maciejewski, M. L., Earle, C. E., Block, S. D., Maciejewski, P. K., and Prigerson, H. G. (2009), "Healthcare costs in the last week of life," *Annals of Internal Medicine*, 169, 480–88.
- Ziman, J. (2003), "Emerging out of nature into history: the plurality of the sciences", *Philosophical Transactions of the Royal Society A*, 361, 1617–33.