references

smart baby: seeds

Theodore Roosevelt

Brinkley, D. (2009)
The Wilderness Warrior: Theodore Roosevelt and the Crusade for America
HarperCollins (NY)

IQ heritability (50% figure)

Posthuma, D & Boomsma, DI (2000)
A note on the statistical power in extended twin designs
Behav Genet 30: 147 - 158

Familial studies of intelligence: a review
Science 212: 1055 – 1059

Einstein’s brain

Witelson SF et al (1999)
The exceptional brain of Albert Einstein.
Lancet 353: 2149-2153

Galaburda, AM (1999)
Albert Einstein’s brain
Lancet 354 (9192): 1821

Einstein: His Life and Universe
Simon & Schuster (NY)

Biological basis of intelligence

Using genetic data in cognitive neuroscience: from growing pains to genuine insights
Nat Rev Neurosci 9: 710 - 720

Gray JR & Thompson, PM (2004)
Neurobiology of intelligences: science and ethics
Nat Rev Neurosci 5: 471 - 482
Jung RE & Haier, RJ et al (2007)  
The parieto-frontal integration theory (P-FIT) of intelligence: converging neuroimaging evidence  
*Behav & Brain Sci* 30(2): 135 – 187

**The COMT gene**

Dickinson, D & Elvegag B (2009)  
Genes, cognition and brain through a COMT lens  
*Neurosci* May 12 [Epub ahead of print]

The effects of catechol O-methyltransferase genotype on brain activation elicited by affective stimuli and cognitive tasks  
*Rev Neurosci* 17(3): 359 – 367

**Reference for IQ tests**

*Intelligence Test Desk Reference (ITDR): The Gf-Gc Cross-Battery Assessment*  
Pearson Education (NY)

*Essentials of Cross-Battery Assessment*  
Wiley (NY)

4,100, not 5,000  
www. kids.niehs.nih.gov/questionstx.htm

**Reference for “g”, general cognition**

Plomin, R. (2001)  
The genetics of G in human and mouse  
*Nat Rev Neurosci* 2(2): 136 – 141

The practical benefits of general intelligence  
*Science* 299: 192 -193

**The variable nature of IQ tests**

Gray, JR (2004)  
Neurobiology of intelligence  
*Discovery Medicine*  
http://www.loni.ucla.edu/~thompson/PDF/GT_v5b.doc
Socioeconomic status modifies heritability of IQ in young children
*Psych Sci* 14: 623 – 628

Sternberg, RJ (2004)
Culture and intelligence
*Am Psych* 59: 325 -338

Sternberg, RJ (2003)
What is an expert student?
*Educ Res* 32(8): 5 -9

Flynn, JR (2007)
*What is Intelligence: beyond the Flynn Effect*
Camb Univ Press (UK)

Howard Gardner

*Multiple Intelligences: the Theory in Practice*
Basic Books (NY)

Cost of a New York Wechsler

Anderson, J (2010)
Inventive new private school hits old hurdles
*New York Times* (April 1)
p. 1

Infant intelligence tests that predict adult intelligence

Eliot, L (1999)
*What’s Going On in There: How the Brain and Mind Develop in the First Five Years of Life*
Bantam Books (NY)
p. 418

Various symposia to define intelligence

Sternberg, RJ & Detterman, DK (1986)
*What is Intelligence?*
Ablex (Nordowood, NJ)

Crystallized vs fluid intelligence

Horn, J. L. & Cattell, R. B. (1966)
Refinement and test of the theory of fluid and crystallized intelligence.
*Journal of Educational Psychology*, 57(5), 253-270
Children are natural explorers

The scientist as child
Phil of Sci 63: 485 - 514

Spelke, ES and Newport EL (1998)

Rethinking infant knowledge: toward an adaptive process account of successes and failures in object permanence tasks
Psychological Reviews 104: 686 – 713

Conceptual coherence in the child’s theory of mind” training children to understand belief
Child Dev 67: 2967 - 2988

The Scientist in the Crib
William Morrow, NY
p. 60 – 75; p. 85 – 91 Phil of Sci 63: 485 - 514

“Innovator’s DNA” studies

Enterpreneur behaviors, opportunity recognition, and the origins of innovative ventures
Strategic Entrepreneurship Journal. 2(4): 317 - 338

Gregersen quotes (Harvard Business Review)

Fryer, B (2009)
How do innovators think?

Impulse control (Mischel’s experiment)

New York: Guilford.
pp. 99-129
Executive function defined

Goldberg, E (2002)
The Executive Brain: Frontal Lobes and the Civilized Mind
Oxford University Press (Oxford, UK)

Kendall, P.C., & Wilcox, L.E. (1979)

Associations of executive function with academic performance, intelligence & IQ

Duckworth, AL & Seligman, M (2005)
Self-discipline outdoes IQ in predicting academic performance of adolescents
Psychol Sci 16: 939 – 944

Individual differences in delay discounting: relation to intelligence, working memory and anterior prefrontal cortex
Psychol Sci 19(9): 904 – 911

High self-control predicts good adjustment, less pathology, better grades and interpersonal success
J Pers 72(2): 271 - 324

There are genetics involved in executive function

Mapping the genetic variation of executive attention onto brain activity
PNAS 100: 7406 – 7411

Neurobiology of executive function

Hare TA et al (2009)
Self-control in decision-making involves modulation of the vMPFC valuation system
Science 324: 646 – 648

Definitions and neurobiology of creativity

Lawrence A et al (2008)
The innovative brain
Nature 456: 168 - 169

Snyder S. (2006)
The creating brain: the neuroscience of genius.
NEJM 354:1539-40
Andreasen NC. (2005)
*The Creating Brain: the Neuroscience of Genius*
Dana Press (NY)

**Predicting creativity**

Goldman, RJ (1964)
The Minnesota Tests of Creative Thinking

Plucker, JA (1999)
Is the proof in the pudding? Reanalyses of Torrance’s (1958 to present) longitudinal data
Educ Res 12(2): 103 - 114

Kim, KH (2006)
Can we trust creativity tests? A review of the Torrance tests of creative thinking (TTCT)
Creat Res J 18(1): 3 - 14

**Noam Chomsky’s ideas on universal grammar**

Hauser, MD et al (2002)
The faculty of language: what is it, who has it, and how did it evolve?
*Science* 298: 1569 - 1579

**Pat Kuhl’s work on language acquisition**

Neural substrates of early language acquisition.
*Annual Rev Neurosci*, 31: 511-534

**Need for social relationships in language acquisition**

Foreign language experience in infancy: effects of short-term exposure and social interaction on phonetic learning
*PNAS* 100(15): 9096 - 9101

**Various nonverbal animal behaviors**

de Waal F (2005)
*Our Inner Ape: a Leading Primatologist Explains Why We Are Who We Are*
Riverhead Books (NY)
Emotion Body Language studies

de Gelder B (2006)  
Towards the neurobiology of emotional body language  
_Nat Rev Neurosci_ 7: 242 – 249

Neural correlates of bimodal speech and gesture communication  
_Brain & Lang_ 89: 253 - 260

McNeill D (2005)  
_Gesture and Thought_  
University of Chicago Press

Linkage to intelligence

Downing JA et al (2007)  
Enhancing hearing children’s memory with American Sign Language  
_Interv School & Clin_ 42: 239

Teaching sign language to hearing children as a possible factor in cognitive enhancement  
_J. Deaf Stud & Deaf Educ_ 3:2 – 8

Campbell, R et al (2007)  
Sign language and the brain: a review  
_J Deaf Studies & Deaf Educ._ 13(1): 3 - 20

Paul Ekman’s facial information

Emotions Revealed: Recognizing Faces and Feelings to Improve Communication and Emotional Life  
Times Books (NY)

Ekman, P & Friesen, WV (1987)  
Facial Action Coding System  
Consulting Psychologist Press (Palo Alto, CA)

Prosopagnosia

Kandel, ER & Wurtz RH (2000)  
Constructing the visual image (in _Principles of Neuroscience 4ht Edition_, Kandel _et al_, editors)  
McGraw Hill (NY)  
pp. 498 – 499
Right side of the brain comment

Expert face processing requires visual input to the right hemisphere during infancy
*Nat Neurosci* 6(10): 1108 - 1112

Charles Darwin and faces

Darwin, C (1872)
The Expression of the Emotions in Man and Animals
John Murray (London, UK)