## 

## CURRICULUM VITAE

**MICHAEL I. POSNER**

**Born:** September 12, 1936

Cincinnati, Ohio

**Current Address:**

Department of Psychology

University of Oregon

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**Education:**

1957 University of Washington, Seattle, B.S. Physics

1959 University of Washington, Seattle, M.S. Psychology

1962 University of Michigan, Ann Arbor, Ph.D., Psychology

**Experience:**

1957-59 Associate Research Engineer, Boeing Airplane Company

1959-60 USPHS Predoctoral Fellow, University of Michigan

1960-61 Teaching Fellow, University of Michigan

1962-65 Assistant Professor of Psychology, University of Wisconsin

1965-68 Associate Professor of Psychology, University of Oregon

1968- Professor of Psychology, University of Oregon (**EMERITUS 2000**)

1969-70 Director of Office of Scientific and Scholarly Research, Univ. of Oregon

1968-69 NSF Senior Postdoctoral Fellow, Applied Psychol Unit, Cambridge, England

1974-75 Visiting Professor, Yale University

1976 (Fall) Visiting Professor, University of Delhi, Delhi, India

1979 (Jan.-June) Visiting Professor, Cornell Medical College - Rockefeller University

1979-1985 Director, Neuropsychology Laboratory, Good Samaritan Hospital

1985 Visiting Professor, University of Minnesota

1985-1989 Professor of Neuropsychology and Psychology, Department of Neurology Neurosurgery, Washington University, St. Louis

1989-1995 Director, Institute of Cognitive and Decision Sciences, University of Oregon

1995-98 Head Dept of Psychology, University of Oregon

1997-2000 Distinguished Professor, College of Arts and Science, Univ. of Oregon

1998-2002 Professor of Psychology in Psychiatry, Weill Medical College of Cornell University, New York Founding Director, Sackler Institute

2002 Adjunct Professor, Weill Medical College

2003-2010 Faculty Coordinator Brain, Biology and Machine Initiative University of Oregon

**Honors and Awards:**

•Donald G. Marquis Award, University of Michigan, 1961-62, "For the most distinguished dissertation"

•American Institute for Research, Dissertation award in the area of Learning, Perception and Motivation, 1962

•Paul M. Fitts Award, Human Factors Society (for contributions to training of Human Factors Specialists)

•Member: Oregon, Western and American Psychological Association (Fellow, Division 3): AAAS (Fellow 1976):

Psychonomics Society (Governing Board, 1973-79), Cognitive Science Society; Neuroscience Society, American Psychological Society

•Editor, Journal of Experimental Psychology: Human Perception and Performance, 1974-1979

•Ersted Award for distinguished teaching, University of Oregon, 1975

• 3rd Paul M. Fitts Lecturer, University of Michigan, Fall, 1976

•Sir F.C. Bartlett Lecturer, University of Oxford, July, 1979

•John Simon Guggenheim Fellow, 1979-1980

•A.P.A. Distinguished Scientific Contribution Award, 1980

•Elected to U.S. National Academy of Sciences, 1981

•NRSA Senior postdoctoral fellowship, 1982-84

•Association Lecture International Attention and Performance Society, 1982

•Elected Chair Section J (Psychology) American Association for the Advancement of Science - Term February, 1987-February, 1988

•Fellow American Academy of Arts and Sciences, 1986

•Distinguished Foreign Lecturer British Psychology Society. Cognitive Section, September, 1986

•8th McKinnon Lecture, University of Missouri, Department of Psychology, April, 1987

•Harold Schlossberg Lecture, Brown University, Department of Psychology, May, 1987

•Presidential Symposium Neuroscience Society, November, 1987

•Howard Crosby Warren Medal of the Society of Experimental Psychologists, 1988

•Member, Institute of Medicine, National Academy of Science, 1988

•Hilgard Visiting Professor, Stanford University, May, 1988

•2nd Quad 4 lecture, University of New Mexico, October 1988

•Invited Lecturer, Congress on Cerebral Blood Flow, Bologna, Italy, May, 1989

•Invited Lecturer, Experimental Psychology Society, Cambridge University, July, 1989

•Howard Vollum award for exceptional achievement of a member of the scientific and technical community of the Pacific Northwest, 1989

•Invited Paper, Decade of the Brain Conference, Institute of Medicine, July, 1990

•Invited Plenary Lecture 25th International Congress of Psychology, Brussels, Belgium,July 1992, with M.K. Rothbart

•Nijmegen Lectures - Max Planck Institute for Psycholinguistics, Nijmegen, Holland, December 1992.

•Invited Visitor Norway Symposium on Psychopathology, February, 1993

•Distinguished Scientific Lecture American Psychological Association, May, 1992

•Organizer Cognitve Neuroscience Symposium International Union of Physiological Sciences. Glasgow Scotland, July, 1993.

•Invited Presidential Address - Society for Neuroscience, Washington, DC, Nov. 1993

•James McKeen Cattell Fellow 1993-94

•Scientist of the Year Award, Oregon Academy of Sciences, 1995

•McDonnell-Pew Lecture-European Society for Psychology and Philosophy, 1995

•Phi Beta Kappa Lecturer, 1995-96

•Dedication Lecturer - Welcome Trust Center for Brain Imaging University of London, April, 1996.

•William James Book Award, 1996 American Psychological Association for the book Images of Mind.

•Donald Broadbent Lecture - European Cognitive Psychology Society, Wurzburg Germany, September, 1996.

•Dana Foundation Award for pioneering research in medicine (neuroscience) 1996

•John T. McGovern Medal and Lecture American Assoc. for the Advancement of Science, February, 1998

•Walker-Ames Visiting Professor, University of Washington, April, 1998

•Lanier Lecturer, University of Illinois, April, 1998

•Honorary Doctoral Degree, University of Padova, Italy, 1998

•Karl Lashley Award, American Philosophical Society (joint with M. E. Raichle), November, 1998

•Elliot Lecture, University of Pennsylvania School of Medicine, February,1999

•W.R. Jeffry Lecture UCLA, February, 1999

•Distinguished Lecturer, Ben Gurion University, November-December, 1999

•Honorary Doctoral Degree, University of Granada, Spain, November, 1999

•Pasarow Foundation Award in Medical Research (Neuropsychiatry) with M.E. Raichle, June, 2000

•Hebb Lecture, Dalhousie University, March, 2000

•Salmon Lecture, NY Academy of Medicine, December, 2000

•De Lange Lecture, University of Houston, March, 2001

•Centennary Lecture on Attention, British Psychology Society, April, 2001

•Grawemeyer Award for psychology contribution /w/ Raichle & Petersen

•Honorary Degree University of Nottingham, July 2002

•Honorary Degree University of Paris, Dec 2002

•Presidential Symposium Amercan. Psychologial Association, 2003

•Fyssen Foundation International Prize for studies of Human Consciousnes, 2004

•George A. Miller Lecture, Cognitive Neuroscience Society, 2004

•American College of Psychoanalysis Laughlin Distinguished Citizen Award and Honorary Membership, 2004

•Patricia Goldman Rakic Award NARSAD [with M.E. Raichle], 2005

\*Plenary lecture Psychonomics Society Nov. 2005

\*Plenary lecture Society for Judgment and Decision Making Nov 2005

\*Arthur Lecture American Museum of Natural History March 2007

\* Honorary Doctoral Degree Ben Gurion University Beer Sheva Israel 2007

\* Honorary Doctoral Degree Vrie University of Brussels Nov. 2007

\* First Mattie Dogan Prize in Psychology 2008

\* First Paul B. Baltes lecture International Congress of Psychology 2008

\* 7th Paul M. Fitts Lecture, Univ of Mich. Sept. 2008

\* Honorary Doctor of Science Univ. of Mich. May 2009

\* Nat’l Medal of Science, Oct 2009

\* Honorary Doctoral Degree University of Buenos Aires March 2010

\* Japanese Psychological Assoc. Guest Lecture Sept. 2010

\* Founders Day Lecture Brain Center Delhi India Dec. 2010

\* Honorary Degree Florida Atlantic University Dec 2011

\* J.J. Carty award for contribution to science National Academy April 2012

\* Keynote Address Society for the Scientific Study of Reading Hong Kong July 2013

\* Plenary Address Cognitive Science in the Millenium Beijing July 2013

\* Election to British Academy of Humanities and Social Sciences 2014

\* Plenary address Association for Psychological Science May 2015

**\*** Founders lecture British Assoc. for Cognitive Neuroscience Sept. 2015 Colchester

\* 4th Huttenlocher Award FLUX Society St. Louis May 2016

\* Franklin Institute Benjamin Franklin Medal in Computer and Cognitive Science May 2017

**\*** Honorary Degree Doctor of Laws Dalhousie University, Halifax NS Canada Oct 2017.

\* Life Time Achievement Award Division 3 APA Aug 2018

**National Service:**

•National Research Council Committee on Human Factors, 1982-83

•National Research Council Committee on Enhancement of Human Performance, 1985-1987

•National Research Council Subcommittee on Learning and Memory of Committee on Research Opportunities in the Social and Behavioral Science, 1985

•National Research Council Subcommittee on Neurobiology and Behavior of the Committee on Research Opportunities in Biology

•McArthur Foundation Committee of Scientific Advisers to the Health Program, 1986-1990

•Reviews of Program of Psychology Departments**:**

Rochester University, 1983

University of California at Santa Cruz, 1983

McGill University, 1984

Northwestern University, 1985

University of Minnesota, 1986

University of Iowa, 1988

UCSD (Cognitive Science), 1994

Chair, visiting committee Harvard University Psychology Dept., 1995-98

Chair review committee Brown University, 1999

Vanderbilt University, 1999

U.S.C., 2000

University of California, Davis, Neuroscience Program, 2001

University of Washington, Department of Psychology, 2004

City University of NY 2011

•Surrogate Delegate Oxford University Press, 1990-1996

•Chair, James S. McDonnell Foundation Committee on Cognitive Neuroscience of •Attention and Perception, 1987-1989

•Board of Reviewing Editors, Science, 1988-1989

•Membership Chair Section 53 National Academy of Sciences, 1992-94

•Nominating Committee Society for Neuroscience, 1993

•National Research Council Committee on Early Child Pedagogy, 1998-00

•PNAS Board of Editors 2000-2002

•Monitor NRC report on polygraphy 2002

•Society for Neuroscience Lindsley Award Committee 2001-

•Board of NEA Foundation 2004-2006

•Advisory Board Life Center, University of Washington 2004-200

\* Board of NEA Foundation 2004-2006

\*NAS nominating committee 2008

\*Member Board on Cognitive, Behavioral and Sensory Sciences NRC

2010-2013

\* Search committee Director of Cog. and Brain Unit MRC 2010

\* Board on Cognitive, Behavioral and Sensory Sciences NRC 2010-2013

\* NRC Committee on Small Group Leadership 2010-2011

**Publications:**

Culbert, S.S. & Posner, M.I. (1960). Human habituation to an acoustical energy distribution spectrum. *Journal of Applied Psychology,* **44:** 263-266.

Posner, M.I. (1963). Immediate memory in sequential tasks. *Psychological Bulletin,* **60**:333-349.

Posner, M.I. (1963). An information approach to thinking*. Air Force Office of Scientific Research Report 2635,* ASTIA, Document 276136, 1962. Extended abstract in Creative Talent Awards Series #2, Washington: AIR.

Posner, M.I. (1964). Uncertainty as a predictor of similarity in the study of generalization. *Journal of Experimental Psychology,* **68**: 113-118.

Posner, M.I. (1964). Information reduction in the analysis of sequential tasks. *Psychological Review*, **71:**491-504. Reprinted in Bobbs-Merrill reprint series.

Posner, M.I. (1964). Effect of rate of presentation and order of recall in immediate memory*. British Journal of Psychology,* **55**:303-306. Reprinted in R. Haber (ed*.), Information Processing Approaches to Perception.*

Posner, M.I. & Rossman, E. (1965). The effect of size and location of interpolated information reduction transforms upon short term retention. *Journal of Experimental Psychology*, **70**: 496-505.

Posner, M.I. (1965). Memory and thought in human intellectual performance*. British Journal of Psychology*, **56:** 197-215.

Posner, M.I. (1966). Components of skilled performance. Science, **152**: 1712-1718. Reprinted in R.N. Singer (ed.), *Readings in Motor Learning.*

Posner, M.I. & Konick, A.F. (1966). Short term retention of visual and kinesthetic information. *Journal of Organization Behavior and Human Performance,* **1:** 71-86.

Posner, M.I. (1966). An informational analysis of the perception and classification of patterns. *Proceedings of the XVIII the International Congress Symposium on Information Theory and Perception,* Moscow.

Fitts, P.M. & Posner, M.I. (1967). *Human Performance*, Belmont, CA Brooks/Cole.

Posner, M.I., Goldsmith, R., & Welton, K.E. (1967). Perceived distance and the classification of distorted patterns. *Journal of Experimental Psychology,* **72**: 28-38.

Posner, M.I. (1967). Short term memory systems in human information processing. *Proceedings of the Symposium on Attention and Performance,* Soesterberg, The Netherlands*. Acta Psychologia,* **27:** 267-284. Reprinted in R. Haber (ed*.), Information Processing Approaches to Perception*.

Posner, M.I. (1967). Concept identification: Information processing approaches*. Encyclopedia of Linguistics, Information and Control*. London: Pergammon.

Posner, M.I. (1967). Perception and cognition as processing levels. Paper delivered at the conference on "Approaches to Cognition,” October 1967. In Voss (ed.), *Approaches to Thought*., New York: Merrill.

Posner, M.I. (1967). Characteristics of visual and kinesthetic memory codes*. Journal of Experimental Psychology,* **75**: 103-107.

Posner, M.I. & Mitchell, R.F. (1967). Chronometric analysis of classification. *Psychological Review*, **74**: 392-409.

Posner, M.I. & Keele, S.W. (1967). Decay of visual information from a single letter. *Science*, **158:** 137-139. Reprinted in R. Haber (ed.)*, Information Processing Approaches to Perception.*

Keele, S.W. & Posner, M.I. (1968). Processing of visual feedback in rapid movements*. Journal of Experimental Psychology,* **77**: 155-158.

Posner, M.I. & Keele, S.W (1968). On the genesis of abstract ideas*. Journal of Experimental Psychology,* **77:** 353-363.

Posner, M.I., Boies, S.W., Eichelman, W., & Taylor, R. (1969). Retention of visual and name codes of single letters*. Journal of Experimental Psychology Monography,* **79**:1-16. Reprinted in M. Coltheart (ed.), *Readings in Cognition,* New York: Holt, Rinehart and Winston, 1972.

Posner, M.I. & Keele, S.W. (1969). Attention demands of movements. *Proceedings of the 16th International Congress of Applied Psychology Symposium on Work and Fatigue.* Amsterdam, Swets: Zeitlinger.

Posner, M.I. (1969). Representational systems for storing information in memory. In Talland and Waugh (eds.), *Psychopathology of Memory,* New York: Academic Press.

Posner, M.I. & Taylor, R.L. (1969). Subtractive method applied to separation of visual and name components of multi letter arrays. Paper presented to Donders Centenary Symposium, Eindhoven, The Netherlands, August, 1968. *Acta Psychologica,* **30**:104-114.

Posner, M.I. (1969). Abstraction and the process of recognition. In G. Bower (ed*.), Advances in Learning,* New York: Academic Press.

Posner, M.I. (1969). Reduced attention and the performance of "automated movements*". Journal of Motor Behavior,* **1**: 245-258.

Posner, M.I. & Keele, S.W. (1970). Retention of abstract ideas. *Journal of Experimental Psychology,* **83**: 304-308.

Posner, M.I. (1970). On the relationship between letter names and superordinate categories. *Quarterly Journal of Experimental Psychology,* **22:** 279-287.

Posner, M.I. (1971). Perception. In, *Yearbook of Science and Technology,* New York: McGraw Hill.

Posner, M.I. (1971). Cognition: Hard boiled and soft shelled. A review of Antrobus, *J. Cognition and Affect: Contemporary Psychology,* **16**: 547-548.

Posner, M.I. & Boies, S.J. (1972). Components of attention. *Psychological Review*, **78**: 391-408. Reprinted in M. Coltheart (ed.), *Readings in Cognition*. New York: Holt, Rinehart and Winston.

Posner, M.I. & Keele, S.W. (1972). Skill learning. In R. Travers (ed.)*, Handbook of Research in Teaching*, (American Research Association). New York: Rand McNally.

Posner, M.I., Lewis, J., & Conrad, C. (1972). Component processes in reading: A performance analysis. In J. Kavanaugh and I. Mattingly (eds.), *Language by Ear and by Eye.* Boston: MIT Press, (pp; 159-192).

Posner, M.I. & Warren, R. (1972). Traces, concepts and conscious constructions. In A.W. Melton and E. Martin (eds.), *Coding Theory and Learning and Memory.* New York: Winston, (pp 25-43).

Posner, M.I. (1972). After the revolution...What? A review of D. Broadbent (ed.), *Decision and Stress, Contemporary Psychology,* **17**: 185-188.

Posner, M.I. (1973). Natural and artificial. In R. Solso (ed.), *Contemporary Issues in Cognitive Psychology: The Loyola Symposium,* New York: Wiley.

Posner, M.I. & Klein, R. (1973). On the functions of consciousness. In S Korkblum (ed.), *Attention and Performance IV,* New York: Academic Press.

Osgood, G.W., Posner, M.I., & Lyon, D.R. (1973). Computers in the training of experimental inquiry in psychology. *Proceedings of the Fourth Conference of Computers in the Undergraduate Curriculum,* Claremont, California.

Posner, M.I. (1973). Coordination on internal codes. In W.G. Chase (ed.), *Visual Information Processing,* New York: Academic Press ( pp. 35-73).

Posner, M.I., Klein, R., Summers, J., & Buggie, S. (1973). On the selection of signals. *Memory and Cognition,* **1:** 2-12.

Klein, R. & Posner, M.I. (1974). Attention to visual and kinesthetic components of skills. *Brain Research,* **7:**401-411.

Posner, M.I. (1974). *Cognition: An introduction.* Glenview, IL: Scott-Foresman.

Posner, M.I. (1974). The memory system. A review of J. Anderson and G. Bower's *Human Associative Memory. Science,* **183**: 1283-1284.

Posner, M.I. & Snyder, C.R.R. (1975). Facilitation and inhibition in the processing of signals. *Attention and Performance V*, New York Press, (pp. 669-681).

Posner, M.I. (1975). Psychobiology of attention. In M. Gazzaniga and C. Blakemore (eds.), *Handbook of Psychobiology.* New York: Academic Press, (pp. 441-480).

Posner, M.I. (1975). Temporal course of information processing in the human nervous system. In G.F. Inbar (ed*.), Signal Analysis*

*in Pattern Recognition and Biochemical Engineering*. Jerusalem: Israel Universities Press, (pp. 157-176).

Posner, M.I., & Snyder, C.R.R. (1975). Attention and cognitive control. In R. Solso (ed.), *Information Processing and Cognition: The Loyola Symposium.*

Hillsdale, N.J.: Lawrence Erlbaum Associates.

Posner, M.I., Nissen, M.J., & Klein, R. (1976). Visual dominance: An information processing account of its origins and significance.

*Psychological Review,* **83:** 157-17

Posner, M.I., Nissen, M.J., & Ogden, W.C. (1977). Attended and unattended processing modes: the role of set from spatial location.

In H.J. Pick (ed.), *Modes of Perception.* Hillsdale, N.J.: Lawrence Erlbaum Associates.

Posner, M.I. (1977). Applying theories and theorizing about applications. In L. Resnick and P. Weaver (eds.), *Theory and Applications of Reading.*

Posner, M.I. & McLean, J. (1977). Cognition: Steady progress or fresh start? A review of U. Neisser’s, *Cognition and Reality, Contemporary Psychology. 22/7* 481-484

Posner, M.I. (1978). *Chronometric Explorations of Mind.* Hillsdale, N.J.: Lawrence Erlbaum Associates.

Carr, T.H., Posner, M.I., Pollatsek, A. & Snyder, C.R.R. (1979). Orthography and familiarity effects in words processing. *Journal of Experimental Psychology: General,* **108**: 389-414.

Posner, M.I. (1979). Comparing chronometric methods. *Commentary: The Behavioral and Brain Sciences,* **2**: 276.

Sen, A. & Posner, M.I. (1979). The effect of unattended auditory and visual words on cross modal naming. *Bulletin of the Psychonomic Society,* **13**: 405-408.

Posner, M.I. & Shulman, G.L. (1979). Cognitive Science. In E. Hearst (ed.), *The First 100 Years of Experimental Psychology,* (pp. 371-406).

Posner, M.I. & Cohen, Y. (1980). Attention and the control of movements. In G.E. Stelmach and J. Requin (eds.), *Tutorials in Motor Behavior.* Amsterdam: North Holland, (pp. 243-258).

Posner, M.I., Davidson, B.J. & Snyder, C.R.R. (1980). Attention and the detection of signals. Journal *of Experimental Psychology: General,* **109**: 160-174.

Posner, M.I. (1980). Orienting of attention. The 7th Sir F.C. Bartlett Lecture. *Quarterly Journal of Experimental Psychology.* **32**: 3-25.

Posner, M.I. & Hanson, V.L. (1980). Analyzing spoken and written language. In R. A. Cole (ed.), *Perception and Production of Fluent Speech.* Hillsdale, N.J.: Lawrence Erlbaum Associates, (pp. 201-211).

Posner, M.I. (1980). Mental chronometry and the problem of Ta. In R. Klein and P. Juszyck (eds.), *Structure of Thought: Essays in Honor of D.O. Hebb,* Hillsdale, N.J.: Lawrence Erlbaum Associates, (pp. 95-113).

Posner, M.I. & Osgood, G. (1980). Computers in the training of inquiry*. Behavioral Research and Instrumentation,* **12:** 87-95.

Posner, M.I. & Rothbart, M.K. (1980). The development of attentional mechanisms. In J.H. Flowers (ed), *Nebraska Symposium on Motivation.* Lincoln Neb.: Nebraska University Press, (pp. 1-49).

Posner, M.I. (1981). Cognition and neural systems*. Cognition,* **10**: 261-266.

Posner, M.I. (1981). Cognition and personality. In N. Cantor and J. Kihlstrom (eds.), *Personality, Cognition and Social Interaction.* Hillsdale, N.J.: Lawrence Erlbaum, (pp. 339-348).

Posner, M.I. (1982). Cumulative development of attentional theory*. American Psychologist*, **32**: 53-64.

Posner, M.I., Cohen, Y., & Rafal, R.D. (1982). Neural systems control of spatial orienting. *Proceedings of the Royal Society of London,* **298**: 187-198.

Posner, M.I. & McLeod, P. (1982). Information processing models: In search of elementary operations. *Annual Review of Psychology,* **33**: 477-514.

Posner, M.I., Pea, R. & Volpe, B. (1982). Cognitive neuroscience: Developments toward a science of synthesis. In J. Mehler, E. Walker and M Garrett (eds.), *Perspectives on Mental Representations.* Hillsdale, N.J.: Lawrence Erlbaum Associates, (pp. 251-275).

Posner, M.I. & Henik, A. (1983). Isolating representational systems. In J. Beck, B. Hope and A. Rosenfeld (eds.), *Human and Machine Vision*, New York: Academic Press, (pp.395-412).

McLeod, P. & Posner, M.I. (1984). Privileged loops from percept to act. In H. Bouma and D. Bowhuis (eds.), *Attention and Performance X,* Hillsdale, N.J.: Lawrence Erlbaum Associates, (pp. 55-66).

Posner, M.I. & Cohen, Y. (1984). Components of visual orienting. In H. Bouma and D. Bowhuis (eds.), *Attention and Performance X.* Hillsdale N.J.:Lawrence Erlbaum Associates, (pp. 531-556).

Posner, M.I., Cohen, Y., Choate, L., Hockey, R., & Maylor, E. (1984). Sustained concentration: Passive filtering or active orienting. In S. Kornblum and J. Requin (eds*.), Preparatory States and Processes,* Hillsdale, N.J.: Lawrence Erlbaum Associates, (pp. 49-65).

Posner, M.I. (1984). Neural systems and cognitive processes. In K. Lagerspetz and P. Niemi (eds.), *Psychology in the 1990's,* Amsterdam:North Holland, (pp. 241-251).

Posner, M.I., Walker, J.A., Friedrich, F. J. & Rafal, R.D. (1984). Effects of parietal lobe injury on covert orienting of visual attention*. Journal of Neuroscience,* **4**: 1863-1874.

Posner, M.I. (1984). Mechanisms of attention. In H. Stevenson and C. C. Ching (eds.), *Studies of Cognition.* Proceedings of a joint meeting of the Chinese and U.S. Academy of Sciences. Washington, D.C.: American Psychological Association, (pp. 373-380).

Posner, M.I. (1984). Current research in the study of selective attention. In E. Donchin (ed.), *Cognitive Psychophysiology: Event-related Potentials and the Study of Cognition*, **2**: 37-50. Hillsdale, N.J.:Lawrence Erlbaum.

Rafal, R.D., Posner, M.I., Walker, J.A., & Friedrich, F.A. (1984). Cognition and the basal ganglia: separating mental and motor components of performance in Parkinson's disease. *Brain,* **107**: 1092-1094.

Posner, M.I. (1984). Selective attention and the storage of information. In J. McGaugh, G. Lynch and N. Weinberger (eds.), *Neurobiology of Learning and Memory*, New York: Guilford Press, (pp. 89-101).

Friedrich, F.J., Walker, J.A., & Posner, M.I. (1985). Effects of parietal lesions on visual matching: Implications for reading errors. *Cognitive Neuropsychology,* **2**: 250-264.

Posner, M.I., Rafal, R.D., Choate, L. & Vaughan, J. (1985). Inhibition of return: Neural mechanisms and function. *Cognitive Neuropsychology,* **2**: 211-228.

Posner, M.I. (1985). Chronometric measures of "g". Commentary on A.R. Jensen's*, The Nature of Black White Differences on Various Psychometric Tests: Spearman's Hypothesis. The Behavioral and Brain Sciences,* (pp. 237-238).

Posner, M.I. & Marin, O.S.M (eds.) (1985). *Attention and Performance XI: Mechanisms of Attention*. Hillsdale, N.J.: Lawrence Erlbaum.

Rothbart, M.K. & Posner, M.I. (1985). Temperament and the development of self regulation. In H. Hartledge and C.R. Telzrow (eds.), *Neuropsychology of Individual Differences,* New York: Plenum.

Posner, M.I. (1986). *Chronometric Explorations of Mind.* Paperback edition. New York: Oxford.

Posner, M.I. (1986). A framework for relating cognitive and neural systems. *EEG and Clinical Neurophysiology,* **38**: 155-166, Supplement.

Posner, M.I. (1986). Empirical studies of prototypes. In C. Craig (ed.), *Noun Classification and Categorization.* Amsterdam: Benjamines, (pp. 53-61).

Posner, M.I. & Friedrich, F.J. (1986). Attention and the control of cognition. In S.L. Friedrich, K.A. Klivington, and R.W. Peterson (eds.), *The Brain, Cognition and Education.* New York: Academic Press. (pp. 81-103).

Prinzmetal, W., Presti, D. & Posner, M.I. (1986). Does attention affect feature integration? *Journal of Experimental Psychology: Human Perception and Performance,* **12:** 361-369.

Posner, M.I. (ed.), (1986). Section on information processing. In: K. Boff, J. Thomas, and L. Kaufman (eds.), *Handbook of Perception and Performance,* **2**: 3-10, New York: Wiley.

Posner, M.I. & Rothbart, M.K. (1986). The concept of energy in psychological theory. In Hockey, G.R.J., Gaillard, A.W.K., and M.G.N. Coles, (eds.), *Energetics and Human Information Processing*. North Holland, Dordrecht: Martinus Nijhoff, (pp. 23-40).

Posner, M.I. & Rafal, R.D. (1986). Cognitive theories of attention and the rehabilitation of attentional deficit. In R. J. Meir, L. Diller, and A.C. Benton (eds.), *Neuropsychological Rehabilitation.* London: Churchill-Livingston.

Posner, M.I. & Presti, D. (1987). Selective attention and cognitive control. *Trends in Neuroscience,* **10**: 12-17.

Posner, M.I., Walker, J.A., Friedrich, F.J. & Rafal, R.D. (1987). How do the parietal lobes direct covert attention? *Neuropsychologia,* ***25A:*** 135-146.

Posner, M.I. (1987). Cognitive neuropsychology and the problem of selective attention. In, *EEG and Clinical Neurophysiology,* **39**: 313-316, Supplement.

Posner, M.I. (1987). Preface to paperback edition of D.E. Broadbent, *Perception and Communication.* Oxford University Press.

Posner, M.I., Inhoff, A., Friedrich, F.J. & Cohen, A. (1987). Isolating attentional systems: A cognitive-anatomical analysis. *Psychobiology,* **15:** 107-121.

Sandson, J. & Posner, M.I. (1987). Procedures for the study of brain-behavior relations. Book review in *Contemporary Psychology,* **32:** 717-718.

Rafal, R.D. & Posner, M.I. (1987). Deficits in human spatial attention following thalamic lesions. *Proc. Nat. Acad. of Sci.,* **84:** 7349-7353.

Posner, M.I. (1987). Selective attention in head injury. In H.S. Levin, H.M. Eisenberg & J. Grafman (eds.), *Neurobehavioural Recovery From Head Injury,* Oxford University Press: New York (pp. 390-397).

Petersen, S.E., Fox, P.T., Posner, M.I., Mintun, M. & Raichle, M.E. (1987). Positron emission tomographic studies of the cortical anatomy of single word processing*. Nature,* **331**: 585-589.

Posner, M.I. (1988). Structures and functions of selective attention. In T. Boll and B. Bryant (eds.), *Master Lectures in Clinical Neuropsychology and Brain Function: Research, Measurement, and Practice,* American Psychological Association (pp. 171-202).

Rafal, R.D., Posner, M.I., Friedman, J.H. Inhoff, A.W. & Bernstein, E. (1988). Orienting of visual attention in progressive supranuclear palsy*. Brain,* **111:** 267-280.

Sieroff, E., Pollatsek, A. & Posner, M.I. (1988). Recognition of visual letter strings following injury to the posterior visual spatial attention system. Cognitive *Neuropsychology*, **5**: 427-449.

Sieroff, E. & Posner, M.I. (1988). Cueing spatial attention during processing of words and letter strings in normals.  *Cognitive Neuropsychology,* **5**: 451-472.

Posner, M.I., Early, T.S., Reiman, E., Pardo, P.J., & Dhawan, M. (1988). Asymmetries in hemispheric control of attention in schizophrenia. *Archives of General Psychiatry,* **45**: 814-821.

Posner, M.I., Petersen, S.E., Fox. P.T. & Raichle, M.E. (1988). Localization of cognitive functions in the human brain. *Science,* **240**: 1627-1631.

Sandson, J., Crosson, B., Posner, M.I., Barco, P.P., Velozo, C.A. & Brobeck, T.C. (1988). Attentional imbalances following head injury. In J.M. Williams & C. J. Long (eds.), *Cognitive Neuropsychology,* New York: Plenum (pp. 45-49).

Posner, M.I. (1988). What is it to be an expert? In M.T.H. Chi, R. Glaser & M.J. Farr (eds*.), The Nature of Expertise.* Hillsdale, N.J.: Lawrence Erlbaum Associates, xxix-xxxvi.

Posner, M.I., Sandson, J., Dhawan, M. & Shulmlan, G.L. (1989). Is word recognition automatic? A cognitive anatomical approach. *Journal of Cognitive Neuroscience*, **1**: 50-60.

Petersen, S.E., Fox, P.T., Posner, M.I., Mintun, M. & Raichle, M.E. (1989). Positron emission tomographic studies of the processing of single words. *Journal of Cognitive Neuroscience,* **1:** 153-170.

Inhoff, A. W., Pollatsek, A., Posner, M.I. & Reyner, K. (1989). Covert attention and eye movements during reading. *Quarterly Journal of Exp. Psychol.,* **41A**: 63-89.

Posner, M.I. (1989). Neural systems of selective attention. *Encyclopedia of Neuroscience Yearbook*, (pp. 155-156).

Posner, M.I. & Rothbart, M. K. (1989). Intentional chapters on unintended thoughts. In J.S. Uleman & J.A. Bargh (eds.), *Unintended Thought: The Limits of Awareness, Intention and Control.* New York: Guilford, (pp. 450-469).

Early, T.S., Posner, M.I., Reiman, E.M. & Raichle, M.E. (1989). Hyperactivity of the left stiato-pallidal projection, Part I: Lower level theory. *Psychiatric Developments,* **2:** 85-108.

Early, T.S., Posner, M.I., Reiman, E.M., & Raichle, M.E. (1989). Hyperactivity of the left striato-pallidal projection; Part II: Phenomenology and thought disorder. *Psychiatric Developments,* **2**: 109-121.

Posner, M.I. & Nakagawa, A. (1989). A cognitive neuroscience perspective to control deficits in schizophrenia. *European Bulletin of Cognitive Science,* **9**: 667-670.

Posner, M.I. (Ed.). (1989). *Foundations of Cognitive Science.* Cambridge: Bradford Books/MIT Press.

Posner, M.I. & Petersen, S.E. (1990) The attention system of the human brain. *Annual Review of Neuroscience, 13*, 25-42.

Posner, M.I. (1990). Hierarchical distributed networks in the neuropsychology of selective attention. In A. Carramaza (ed.), *Cognitive Neuropsychology and Neurolinguistics: Advances in Models of Cognitive Function and Impairment.* New York: Plenum, (pp. 187-210).

Posner, M.I. & Rothbart, M.K. (1990). The evolution and development of the brain's attention system. *Quarterly Journal of Exp. Psychol.,* **42A**: 189-190, (abstract).

Posner, M.I. & Early, T.E. (1990). Letter reply. *Archives of General Psychiatry,* **47**: 394-95.

Reuter-Lorenz, P.A. & Posner, M.I. (1990). Components of neglect from right hemisphere damage: An analysis of line bisection. *Neuropsychologia,* **28**: 327-334.

Rothbart, M.K., Posner, M.I. & Boylan, A. (1990). Regulatory mechanisms in infant temperament. In J. Enns (ed.), *The Development of Attention: Research and Theory,* (pp. 47-65). Amsterdam: North Holland.

Posner, M.I. (1991). Cognitive-neuroscience approach to lexical access. In, *Perception, Cognition and Brain: Fourth Yakult Symposium.* Tokyo: Yakult Honsha.

Posner, M.I. & Briand, K. (1991). Attention. *Encyclopedia of Biology.* Academic Press, New York, (pp. 479-484.)

Compton, P., Grossenbacher, P., Posner, M.I. & Tucker, D.M. (I991). A cognitive-anatomical approach to attention in lexical access.  *Journal of Cognitive Neuroscience,* **3**(4): 304-312

Johnson, M.H., Posner, M.I. & Rothbart, M.K. (1991). Components of visual orienting in early infancy: Contingency learning, anticipatory looking and disengaging. *Journal of Cognitive Neuroscience,* **3**(4): 335-344.

Clohessy, A.B., Posner, M.I., Rothbart, M.K. & Vecera, S.P. (1991). The development of inhibition of return in early infancy. *Journal of Cognitive Neuroscience,* **3**(4): 345-350.

Vecera, S.P., Rothbart, M.K. & Posner, M.I. (1991). Development of spontaneous alternation in infancy. *Journal of Cognitive Neuroscience.* **3**(4): 351-354.

Rothlind, J. Posner, M.I. & Schaughency, E. (1991). Lateralized control of eye movements in attention deficit hyperactivity disorder. *Journal of Cognitive Neuroscience.* **3**(4): 377-381.

Swanson, J.M., Posner, M.I., Potkin, S., Bonforte, S. Youpa, D., Cantwell, D. & Crinella, F. (1991). Activating tasks for the study of visual-spatial attention in ADHD children: A cognitive anatomical approach. *Journal of Child Neurology,* **6**: S119-S127.

Posner, M.I., Dwivedi, C.B. & Singh, I.L. (eds.) (1991)*. Contemporary Approaches to Cognitive Psychology*. Rishi Publication: Varanasi.

Posner, M.I. & Rothbart, M.K. (1992). Attention and conscious experience. In A.D. Milner & M.D. Rugg (eds), *The Neuropsychology of Consciousness.* London: Academic Press (pp. 91-112).

Inhoff, A., Rafal, R.D. & Posner, M.I. (1992). Bimodal extinction without cross-modal extinction. *Journal of Neurology, Neurosurgery and Psychiatry,* **55**: 36-39.

Posner, M.I. (1992). Attention as a cognitive and neural system. *Directions in Psychology Science,* **1**(1): 11-14.

Posner, M.I. & Carr, T.H. (1992). Lexical access and the brain: Anatomical constraints on cognitive models of word recognition. American Journal of *Psychology*, **105**: 1-26.

Posner, M.I. & Driver, J. (1992). Neurobiology of selective attention. *Current Opinion in Neurobiology,* **2**(2): 165-169.

Posner, M.I. & Bourke, P. (1992). Cognitive psychology: A 25th anniversary appraisal. Book review of U. Neisser, *Cognitive Psychology, American J. of Psychology,* **105**(4): 621-626.

Posner, M.I. (1992). *Biographical Memoir of Arthur Melton.* National Academy of Sciences Press.

Curran, T., Tucker, D.M., Kutas, M. & Posner, M.I. (1993). Brain electrical activity reflecting semantic expectancy. *EEG and Clinical Neurophysiology.EEG and Clinical Neurophysiology,* **88**: 188-209.

Posner, M.I. (1993). Attention before and during the decade of the brain. In D. Meyer and S. Kornblum (eds.), *Attention and Performance XIV.* Cambridge MA:MIT Press (pp. 340-351).

Posner, M.I. & McCandliss, B. (1993). Converging methods for investigating lexical access. *Psychological Science,* **4:** 305-309.

Posner, M.I. & Spitzer, M. (1993). Carving the mind at its joints. Book review of S. Kosslyn & O. Koenig (eds.), *Wet Mind, American Scientist,* **18**: 180-182.

Posner, M.I. (1993). Interaction of arousal and selection in the posterior attention network. In A. Baddeley and L. Weiskrantz (eds.), *Attention: Selection, Awareness and Control. A Tribute to Donald Broadbent.* Oxford University Press (pp. 390-405).

Posner, M.I. (1993) Seeing the mind. *Science,* **262**: 673-674.

Dehaene, S., Posner, M.I. & Tucker, D.M. (1994). Localization of a neural system for error detection and compensation. *Psychological Science,* **5**: 303-305.

Early, T.S., Haller, J.Wl, Posner, M.I., & Raichle, M.E. (1994). The left striato-pallidal hyperactivity model of schizophrenia. In A.S. David & J.C. Cuttings (eds.), *The Neuropsychology of Schizophrenia,* Hillsdale N.J.: Erlbaum (pp. 15-38).

Posner, M.I. & Deheane, S. (1994). Attentional Networks. *Trends in Neuroscience*,**7**: 75-79.

Johnson, M.H., Posner, M.I., & Rothbart, M.K. (1994). Facilitation of saccades toward a covertly attended location in early infancy. *Psychological Science,* (pp. 90-93).

Posner, M.I. & Raichle, M.E. (1994). *Images of Mind.* Scientific American Books.

Posner, M.I. (1994). Local and distributed processes in attentional orienting. *Behavioral and Brain Sciences,* **17**(1): 78-79.

Desimone, R. & Posner, M.I. (eds.) (1994). Research in Cognitive Neuroscience. *Current Opinion in Neurobiology.* **4**/2: 147-150, Overview.

Tucker, D.M. Liotti, M., Potts, G., Russell, G. & Posner, M.I. (1994). Spatiotemporal analysis of brain electrical fields. *Human Brain Mapping,* **1**: 134-152.

Rothbart, M.K., Derryberry, D. & Posner, M.I. (1994). A psychobiological approach to the development of temperament. In J.E. Bates & T.D. Wachs (eds.), *Temperament: Individual Differences at the Interface of Biology and Behavior.* APA: Washingto D.C. (pp. 83-116).

Posner, M.I., Grossenbacher, P. & Compton, P.E. (1994). Visual attention. In M. Farah and G. Ratcliff (eds.) *The Neuropsychology of High-Level Vision: Collected Tutorial Essays*. Lawrence Erlbaum Associates (pp., 217-239).

Posner, M.I & Rothbart, M.K. (1994). Constructing neuronal theories of mind. In C. Koch & J. Davis (eds.), *High Level Neuronal Theories of the Brain*. Cambridge Mass: MIT Press, (pp.183-199).

Posner, M.I. (1994). Attention and psychopathology. *Actualities Psychiatriques,* **1**/1: p. 4, (special issue on attentional pathologies).

Posner, M.I. & Rothbart, M.K. (1994). Attentional regulation: From mechanism to culture. In P. Bertelson, P. Eelen, & G. D'Ydavalle (eds.), *International Perspective on Psychological Science*, **Vol. I,** Leading Themes. Hillsdale, NJ: LEA Associates, (pp. 41-56).

Posner, M.I. (1994). Attention: the mechanism of consciousness. *Proc. National Acad of Sciences, U.S.A.,* **91**(16): 7398-7402.

Harman, C., Posner, M.I., Rothbart, M.K. & Thomas-Thrapp, L. (1994). Development of orienting to objects and locations in human infants. *Canadian Journal of Experimental Psychology,* **48**: 2:301-318.

Posner, M.I, Rothbart, M.K. & Harman, C. (1994). Cognitive science contributions to culture and emotion. In S. Ktayma & H. Marcus (eds.), *Culture and Emotion.* Washington D.C.: American Psychological Assoc. (pp. 197-216).

Posner, M.I. (1994). Neglect and spatial attention. *Cognitive Rehabilitation,* **4**(2): 183-187.

Posner, M.I. (1994). Attention in Cognitive Neuroscience. In M.S. Gazzaniga (ed.), *Handbook of Cognitive Neuroscience.* Cambridge: MIT Press, (pp. 615-624).

Mayr, U. & Posner, M.I. (1994). Neuropsychology of attention: Book review of R.A. Cohen. *Neurospsychologia,* **32**: 1307-1308.

Jackson, S., Marrocco, R. & Posner, M.I. (1994). Networks of anatomical areas controlling visual spatial attention. *Neural Networks,* **7**: 925-944.

Rothbart, M.K., Posner, M.I., and Rosicky, J. (1994). Orienting in normal and pathological development. *Development and Psychopathology,* ***6****:* 635-652.

Posner, M.I. (1995). Modulation by Instruction commentary. *Nature*, **373**: 398-399.

Snyder, A.Z., Abdullaev, Y. Posner, M.I. & Raichle, M.E. (1995). Scalp electrical potentials reflect regional cerebral blood flow responses during processing of written words. *Proceedings of the National Academy of Sciences,* **92:** 1689-93.

Posner, M.I. (1995). Forward. In M.D. Rugg and M.G.H. Coles (eds.), *Electrophysiology of Mind,* Oxford: University Press.

Posner, M.I. & Raichle, M.E. (1995). Images of mind: A precis for multicommentary. *Behavioral and Brain Sciences,* **18**/2: 327-400.

Rothbart, M.K. Hershey, K. & Posner, M.I. (1995). Temperament, attention and developmental psychopathology. In D. Cicchetti & D. Cohen, (eds.), *Manual of Developmental Psychopathology*. New York: Wiley, Vol. **1**: 315-340.

Carr, T. & Posner, M.I. (1995). The impact of learning to read on the functional anatomy of language processing. In B. De Gelder & J. Morais (eds.), *Speech and Reading: A Comparative Approach.* Earlbaum (UK): Taylor & Francis (pp. 267-294).

Badgaiyan, R. & Posner, M.I. (1996). Priming reduces input activity in right posterior cortex during stem completion. *Neuroreport,* **7**: 2975-2978.

DiGirolamo, G.J. & Posner, M.I. (1996). Attention and schizophrenia. *Cognitive Neuropsychiatry,* **1 (**2): 95-102.

Posner, M.I. (1996). Attention: An interview. *Journal of Cogntive Neuroscience,* **8**: 83-87.

Posner, M.I. & Abdullaev, Y. (1996). What to image? Anatomy, plasticity and circuitry of human brain function. In A.W. Toga & J.C. Mazziotta (eds.), *Brain Mapping: The Methods.* New York: Academic Press (pp. 407-421).

Posner, M.I. & Abdullaev, Y. (1996). Devoiler la dynamique de la lecture. *La Recherche,* **289:** 66-69.

Posner, M.I. (1996). Attentional networks and psychopathology. *Harvard Mental Health Review,* Sept., p 5-6.

Potts, G.F., Liotti, M., Tucker, D.M., & Posner, M.I. (1996). Frontal and inferior temporal cortical activity in visual target detection: Evidence from high spatially sampled event-related potentials. *Brain Topography,* **9**: 3-14.

Abdullaev, Y. & Posner, M.I. (1997). Time course of activating brain areas in generating verbal associations. *Psychological Science,* **8**: 56-59.

Badigaiyan, R. & Posner, M.I. (1997). Time course of cortical activations in implict and explicit recall. *Journal of Neuroscience,* **17** (12): 4904-4913.

Fernandez-Duque, D. & Posner, M.I. (1997). Relating the mechanisms of alerting and orienting. *Neuropsychologia,* **35**: 477-486.

Harman, C., Rothbart, M. K., & Posner, M. I. (1997). Distress and attention interactions in early infancy. *Motivation and Emotion, 21*, 27–43.

McCandliss, B.D., Posner, M.I. & Givon, T. (1997). Brain plasticity in learning visual words. *Cognitive Psychology,* **33**: 88-110.

Posner, M.I. (1997). Neuroimaging of cognitive processes. *Cognitive Psychology,* **33**: 2-4.

Posner, M.I., Rothbart, M.K. Gerardi, G. & Thomas-Thrapp. (1997). Functions of orienting in early infancy. In P. Lang, M. Balaban & R.F.Simmons, (eds.), *The Study of Attention: Cognitive Perspectives From Psychophysiology, Reflexology and Neuroscience.* Hillsdale N.J.: Erlbaum (pp. 327-346).

Posner, M.I., DiGirolamo, G.J., & Fernandez-Duque, D. (1997). Brain mechanisms of cognitive skills. *Journal of Consciousness and Cognition,* **6**: 267-290.

Posner, M.I., & Tudela, P. (1997). Imaging resources. *Biological Psychology*, **45**: 95-107.

Posner, M.I. & Levitin, D. (1997). Imaging the future. In R. Solso (ed.), *Science of the Mind: The 2lst Century.* Cambridge, MA: MIT Press (pp. 91-109).

Posner, M.I. & Raichle, M.E. (eds) (1998). Overview: The neuroimaging of human brain function. *Proceedings of the National Academy of Sciences of the U.S.,* **95**: 763-764.

Abdullaev, Y.G. & Posner, M.I. (1998). Event-related brain potential imaging of semantic encoding during processing single words. *Neuroimage,* **7**: 1-13.

Posner, M.I. & Pavese, A. (1998). Anatomy of word and sentence meaning. *Proceedings of the National Academy of Sciences, USA,* **95**: 899-905.

Posner, M.I. & DiGirolamo, G.J. (1998). Executive Attention: Conflict, target detection and cognitive control. In R. Parasuraman (ed.), *The Attentive Brain,* Cambridge: MIT Press (pp. 401-423).

Badgaiyan, R. & Posner, M.I. (1998). Mapping the Cingulate Cortex in response selection and monitoring. *NeuroImage,* **7**: 255-260.

Posner, M.I. & Badgaiyan, R. (1998) Attention and neural networks. In R.W. Parks, D.S. Levine & D.L. Long eds*. Fundamental of neural network modeling: Neuropsychology and cognitive neuroscience*. Cambridge: MIT Press, 61-76.

Posner, M.I. & Desimone, R.E. (ed) (1998). Overview: Beyond Images. *Current Opinion in Neurobiology* **8/2**: 175-177.

Sereno, S. C., Rayner, K. & Posner, M.I. (1998) Establishing a time line of word recognition: evidence from eye movements and event-related potentials. *NeuroReport*, **9**:2195-2200.

Swanson, J., Posner, M.I., Cantwell, D., Wigal, S., Crinella, F., Filipek, P., Emerson, J., Tucker, D., & Nalcioglu, O. (1998). Attention Deficit/Hyperactivity Disorder: Symptom domain, cognitive processes and neural networks. In R. Parasuraman (ed), *The Attentive Brain,* Cambridge: MIT Press (pp. 445-460).

Temple, E. & Posner, M.I. (1998). Brain mechanisms of quantity are similar in 5-year-olds and adults. *Proceedings of the National Academy of Sciences of the U.S.A.,* **95**: 7836-7841.

Posner, M.I. & Rothbart, M.K. (1998). Developing attention skills. In J. Richards (ed.) *Cognitive Neuroscience of Attention: A Developmental Perspective,* Hillsdale, NJ: LEA. pp. 317-323.

Posner, M.I., Rothbart, M.K., Thomas-Thrapp, L, & Gerardi, G. (1998). Development of orienting to locations and objects in R. Wright (ed.), *Visual Attention,* New York: Oxford University Press, 269-288.

Posner, M.I. & Rothbart, M.K. (1998). Attention, self regulation and consciousness. Philosophical *Transactions of the Royal Society of London B*: **353**, 1915-1927.

Posner, M.I. , Abdullaev, Y., McCandliss, B.D. & Sereno, S.E. (1999). Neuroanatomy, circuity and plasticity of word reading.*Neuroreport*, **10**:R12-23.

Posner, M.I. & Gilbert, C.D. (1999). Attention and primary visual cortex: *Proc. Nat. Acad. of Science of U.S.A.,* **96/**6: 2585-2587

Stormark, J.M., Hugdahl, K. & Posner, M.I. (1999). Emotional modulation of attentional orienting: a classical conditioning study. *Scandinavian Journal of Psychology*, Vol. 40, No. 2. 91-99

Posner, M.I. (1999). The Brain and Emotion. A review of Edmund Rolls book*.* . **5/6**:605.

Posner, M.I. , Abdullaev, Y., McCandliss, B.D. & Sereno, S.E. (1999). Anatomy,

Circuitry and plasticity of word reading in J. Everatt (ed*). Reading and Dyslexia: visual and attentional processes*. London: Routledge 137-162.

Posner M.I. (1999) Current research in cognitive neuroscience. In I. Singh & R.Parasuraman (eds) *Human Cognition: A multidisciplinary perspective*. New Delhi: Sage 41-54.

Posner, M.I. & Clegg, B.A. (1999) Stages and energetics in laboratory and life. . A book review of A.F. Sanders *Elements of Human performance: reaction processes and attention in human skill Contemporary Psychology,* **44/4**:312-314.

Posner, M. I., & Fernandez-Duque, D. (1999). Attention in the human brain. In R. A. Wilson & F. C. Keil (Eds.), *The MIT Encyclopedia of the Cognitive Sciences* (pp. 43-45). Cambridge, MA: MIT Press.

Posner, M.I. (Nov. 1999) Brain imaging: localization of brain functions. *Encyclopedia of Life Sciences*. Nature Pub. Group:London , www.els.net

Posner, M.I. & McCandliss, B.D. (1999). Brain circuitry during reading. In R. Klein & P. McMullen (Eds) *Converging methods for understanding reading and dyslexia*. Cambridge:MIT Press page 305-337.

Posner, M.I., Rothbart, M.D. & DiGirolamo, G.J. (1999). Development of brain networks for orienting to novelty. *Pavlov Journal of Higher Nervous Activity*. **49/5** p. 715-722

Posner, M.I. (1999). Localizing cognitive operations. *Brain Research Bulletin*. **50/5-6**:413

Albright, T., Jessel, T., Kandel, E. & Posner, M.I. (2000). Neural communication: what problems have been demystified in the 20th century and what mysteries remain. *Cell*, **100**:S1-S55.

Albright, T.D., Kandel, E. & Posner, M.I. (2000). Cognitive Neuroscience. *Current Opinion in Neurobiology*, **10/5**:612-624.

Berger, A. & Posner, M.I. (2000). Pathologies of brain attentional networks. *Neuroscience Reviews*, **24/1**:3-5.

Berger, A., Jones, L., Rothbart, M.K. & Posner, M.I. (2000). Computreized games to study the development of attention in childhood. *Behavioral Research Methods and Instrumentation*, **32**:29-303.

Bush, G., Luu, P. & Posner, M.I. (2000). Cognitive and emotional influences in the anterior cingulate cortex. *Trends in Cognitive Science* , **4/6**:215-222.

Fernadez-Duque, D., Baird, J.A. & Posner, M.I. (2000). Executive attention and metacognitive regulation. *Cognition & Consciousness*, **9**:288-307.

Fernadez-Duque, D., Baird, J.A. & Posner, M.I. (2000). Attention and awareness in self regulation. *Cognition & Consciousness*, **9**:324-326.

Pardo, P.J., Knesevich, M.A., Vogler, G.P, Pardo J.V., Towne, B., Clonninger, C.R. & Posner,M.I. (2000). Genetic and state variables of neurocognitive dysfunction in schizophrenia: A twin study. *Schizophrenia Bulletin*, **26**:459-477.

Posner, M.I. (2000). Exploiting Cognitive Brain Imaging. *Brain and Cognition*, **42**:64-67.

Posner, M.I. & DiGirolamo, G.J. (2000). Attention in cognitive neuroscience: An overview. In M.S. Gazzaniga (ed.), *The New Cognitive Neurosciences Second Edition* (pp. 621-632).

Posner, M.I. & DiGirolamo, G.J. (2000). Cognitive Neuroscience: Origins and Prospects. *Psychological Bulletin*, **126**:873-889.

Posner, M.I. & Rothbart, M.K. (2000). Developing mechanisms of self-regulation. *Development and Psychopathology*, **12**:427-441.

Sohlberg, M.M., McLaughlin, K.A., Pavese, A., Heidrich, A. & Posner, M.I. (2000). Evaluation of attention process therapy training in persons with acquired brain injury. *Journal of Clinical and Experimental Neuropsychology*, **22**:656-676.

Swanson, J.M., Floodman, P., Kennedy, J.M., Spence, A.M., Moyzes, M., Schruck, S., Murias, M., Moriarty, J, Barr, C., Smith, M., & Posner, M.I. (2000). Dopamine genes and ADHD. *Neuroscience & Biobehavioral Reviews*, **24**:1:21-25.

Swanson J, Oosterlaan J, Murias M, Schuck S, Flodman P, Spence MA, Wasdell M, Ding

Y, Chi H, Smith M, Mann M, Carlson C, Kennedy MJ, Sergeant J, Leung P, Zhang

Y, Sadeh A, Chen C, Moyzis R, Posner MI. (2000). Attention deficit/hyperactivity

disorder children with a 7-repeat allele of the dopamine receptor D4 gene have `

extreme behavior but normal performance on critical neuropsychological tests of

attention. Proceedings of National Academy of Sciences, 97: 4754-4759.

Albright, T.D., Jessell, T.M., Kandell, E.R. & Posner, M.I. (2001). Progress in the neural sciences in the the century after Cajal (and the mysteries that remain). *Annals of the New York Academy of Sciences*, 929:11-40.

Berger, A. & Posner, M.I. (2001). Ontogeny of brain and behavior: A neuropsychological perspective. In A.F. Kalverboer & A. Gramsbergen (eds), *Handbook of Brain and Behaviour in Human Development*. Dordrecht, The Netherlands:Kluwer Academic Publishers (pp. 11-31).

Clohessy, A.B., Posner, M.I., & Rothbart, M.K. (2001). Development of the functional visual field. *Acta Psychologica*, **106**:51-68.

Fan, J., Wu, Y., Fossella, J. & Posner, M.I. (2001). Assessing the heritability of attentional networks *BioMed Central Neuroscience*, **2**:14.

Fernadez-Duque, D. & Posner, M.I. (2001). Brain imaging of attentional networks in normal and pathological states. *Journal of Experimental and Clinical Neuropsychology*, **23**:74-93.

Nikolaev, A.R., Ivanitsky, G.A., Ivanitsky, A.M., Abdullaev, Y.G. & Posner, M.I. 2001). Short-term correlation between frontal and Wernicke’s areas in word association. *Neuroscience Letters*, **298**:107-110.

Posner, M.I. (2001). Educating the human brain: A commentary. In J. McClelland and R. Siegler (eds.), *Mechanisms of Cognitive Development: Behavioral and Neural Perspectives*. Hillsdale N.J.:LEA, Ch 16 (pp. 387-399).

Posner, M.I. (2001). Normal and pathological development of the nervous system. *Clinical Neuroscience Research*, **1(3):**173-174.

Posner, M.I. (2001). Cognitive neuroscience and consciousness. Forward to P. Grossenbacher (ed.), *Finding Consciousness in the Brain*. Benjamins:Amstedam IX-XI.

Posner, M.I (2001). Developing Brains: The work of the Sackler Institute. *Clinical Neuroscience Research*, **1(4):**258-266.

Posner, M.I. (2001). Cognitive neuroscience: The synthesis of mind and brain. In E. Dupoux (ed.), *Language, Brain and Cognitive Development: Essays in Honor of Jacques Mehler*. Cambridge, MA: Bradford Books MIT Press.

Posner, M.I. & Halparin, J.D. (2001). A review of *The Executive Brain: Frontal Lobes and the Civilized Mind* by E. Goldberg, Nature Medicine 7/7:767-768.

Posner, M.I., Rothbart,M.K. & Gerardi-Caulton, G. (2001). Exploring the biology of socialization. In A.R. Damasio, et al (eds), *The Convergence of Natural and Human Sciences*. *Annals of the New York Academy of Sciences*, **935**:208-216.

Posner, M.I., Rothbart, M.K., Farah, M. & Bruer, J. (eds) (2001). Human Brain Development. *Developmental Science*, **4/3**:253-384.

Posner, M.I. & Rothbart, M.K. (2001). The neuroeducation of Nico. A review of A.M. Battro, *Half a Brain is Enough*. *Cerebrum*, **3/2**:91-95.

Posner M.I .& Rothbart , M.K. (2001). Brain Development, Ontogenetic Neurobiology of. In Smelser N, Baltes P (eds.), *International Encyclopedia of the Social and Behavioral Sciences*. Elsevier, Oxford, UK (pp. 1332-38).

Rothbart, M.K., & Posner, M.I. (2001). Mechanisms and variation in the development of attentional networks. In C.A. Nelson & M. Luciana (eds.), *The Handbook of Developmental Cognitive Neuroscience*. Cambrdige Mass.:MIT Press, Ch. 24, (pp. 353-363).

Swanson, J., Deutsch, C., Cantwell, D., Posner, M., Kenndy, J., Barr, C., Moyzis, R., Schuck, S., Flodman, P., & Spence, A. (2001). Genes and attention-deficit hyperactivity disorder. *Clinical Neuroscience Research.* **1(3):**207-216.

Fan, J., McCandliss, B.D., Sommer, T., Raz, M. & Posner, M.I. (2002). Testing the efficiency and independence of attentional networks. *Journal of Cognitive Neuroscience*, **3(14):**340-347.

Fossella, J., Posner, M.I., Fan, J. Swanson, J.M. & Pfaff, D.M. Attentional phenotypes for the analysis of higher mental function. (2002). *The Scientific World Journal*, **2**:217-223.

Fossella, J., Sommer, T., Fan, J., Wu, Y., Swanson, J.M., Pfaff, D.W. & Posner, M.I. (2002). Assessing the molecular genetics of attention networks. *BMC Neuroscience*, **3**:14.

Posner, M.I. (2002). Convergence of psychological and biological development. *Developmental Psychobiology*, **40(3)**:339-343.

Posner, M.I. & Rothbart, M.I. (2002). Il cervello e líattenzione nel contesto scolastico (The Human Brain and Attention to School Subjects). In Elisa Frauenfelder & Flavia Santoianni (eds), *Le Science Bioeducative.* Naples:Liguori, Srl 5-20.

Posner, M.I., Rothbart, M.K., Vizueta, N., Levy,K., Thomas, K.M. & Clarkin, J. (2002). Attentional mechanisms of borderline personality disorder. *Proceedings of the National Academy of Sciences USA, 99* **(25):**16366-16370.

Posner, M.I. & Rueda, M.R. (2002). Mental chronometry in the study of individual and group differences. *Journal of Clinical and Experimental Neuropsychology,* **24**:968-976.

Raz, A., Shapiro, T., Fan, J., & Posner, M.I. (2002). Hypnotic suggestion and the modulation of Stroop interference. *Archives of General Psychiatry,* **59(12)**:1155-1161.

Worden, M.S., Martinez, A. & Posner, M. I. (2002). Neural basis of spatial attention. In Nadel, L. (ed.)*, Encyclopedia of Cognitive Science. Vol. 4, pp. 108-111*. London: Nature Publishing Group.

Fan, J., Flombaum, J.I., McCandliss, B.D., Thomas, K.M. & Posner, M.I. (2003). Cognitive and brain consequences of conflict. *Neuro Image,* 1**8:**42-57.

Fan, J., Fossella, JA, Summer T. Wu, Y. & Posner, M.I. (2003) Mapping the genetic variation of executive attention onto brain activity. *Proceedings of the National Academy of Science USA* **100**:7406-11.

Fossella, J.A., Sommer, T., Fan, J., Pfaff, D., Posner, M.I. (2003). Synaptogenesis and heritable aspects of executive attention. *Mental Retardation and Developmental Disabilities Research Reviews*, **9**:78-183.

Jones, L., Rothbart, M.K.& Posner, M.I. (2003). Development of inhibitory control in preschool children. *Developmental Science,* **6**:498-504.

McCandliss, B.M. & Posner, M.I. (2003). Fostering literacy through understanding brain mechanisms. *Education Canada*, **43**:4-7.

Luu, P. & Posner, M.I. (2003). Editorial: Anterior cingulate regulation of sympathetic activity. *Brain*, **126**:2119-20.

Posner, M.I., Rothbart, M.K., Vizueta, N., Thomas, K.M., Levy, K., Fossella, J., Silbersweig, D.A., Stern, E., Clarkin, J. & Kernberg, O. (2003). An approach to the psychobiology of personality disorders. *Development and Psychopathology*, **15**:1093-1106.

Posner, M.I. (2003). Imaging a science of mind. *Trends in Cognitive Sciences*, **7**:10:450-453.

Raz, A., Landzberg, K.S., Schweizer, H.R., Zephrani, Z., Shapiro, T. & Posner, M.I. (2003). Posthypnotic suggestion and the modulation of Stroop interference under cycloplegia. *Cognition and Consciousness*, **12**:332-346.

Rothbart, M.K., Ellis, L.K., Rueda, M.R. & Posner, M.I. (2003). Developing mechanisms of effortful control. *Journal of Personality*, **71**:1113-1143.

Rueda, M.R., Fan, J. & Posner, M.I. (2003). Measuring attention in neuropsychological diagnosis and rehabilitation. 2nd International Congress of Neuropsychology in the Internet. To be published in *Revista de Neurologia*.

Sommer, T., Fossella, J., Fan, J., & Posner, M.I. (2003). Inhibitory control: Cognitive subfunctions, individual differences and dopaminergic genes. In I. Reinvang, M.W. Greenlee & M. Herrmann (Eds.), *The Cognitive Neuroscience of Individual Differences – New Perspectives*. Oldenberg, Germany:BIS.

Ellis, E. Rothbart, M.K. & Posner, M.I. (2004)Individual differences in executive

attention predict self-regulation and adolescent psychosocial behaviors  Ann of NY Acad of Sci 1031, 337-340

Fan. J. & . Posner, M.I. (2004). Human attentional networks, Psychiatrische Praxis,

31(S2), 210-214

Fossella, J & Posner, M.I(2004) . Genes and the development of neural networks underlying cognitive processes in M.S.Gazzaniga ed The Cognitive Neurosciences 3rd edition Cambridge: MIT Press 1255-1266

Posner, M.I. (2004). Neural systems and individual differences. *Teachers College Record*, **106**:24-30.

Posner, M.I.  (2004).  The achievements of brain imaging: Past and present.  In N. Kanwisher & J. Duncan (Eds.), *Attention and Performance XX*, Oxford University Press (pp. 505-528).

Posner M.I. (ed) (2004). *Cognitive Neuroscience of Attention*. New York: Guilford

Posner, M.I.(2004) Is the combination of psychology and neuroscience important to you? Impuls: Tidsskrift for Psyckhologi. 3, 6-8

Posner, M.I. & Rothbart, M.K. (2004) Hebb’s Neural networks support the integration of

psychological science.  *Canadian Psychologist* **45**, 265-278

Raz, A., Marinoff, G.P., Zephani, Z.R., Schweizer, H.R., & Posner, M.I.  (2004). See Clearly: Suggestion, hynosis, attention and visual acuity. *International Journal of Clinical and Experimantal Hypnosis*. **52**:159-187.

Rothbart, M.K., Ellis, L.K. & Posner, M.I.  (2004).  Temperament and self regulation.  In R.F. Baumeister & K.D. Vohs (Eds), *Handbook of Self Regulation*: *Research, Theory, and Applications*, New York: Guilford Press, **18:**357-370.

Rueda, M.R., Fan, J., Halparin, J., Gruber, D.,Lercari, L.P., McCandliss B.D.  & Posner, M.I.  (2004).  Development of attention during childhood *Neuropsychologia,* **42***:*1029-1040.

Rueda, M.R., Posner, M.I. & Rothbart, M.K.  (2004).  Attentional control and self regulation.  In R.F. Baumeister & K.D. Vohs (Eds), *Handbook of Self Regulation*: *Research, Theory, and Applications*, New York: Guilford Press, **14**:283-300.

Rueda, M.R., Posner, M.I., Rothbart, M.K. & Davis-Stober, C.P. (2004). Development of the time course for processing conflict: An event-related potentials study with 4 year olds and adults. *BMC Neuroscience*, **5**:39

Abdullaev, Y. & Posner, M.I. (2005) How the brain recovers following damage.

*Nature Neuroscience* **8**, 1424-1425

Beutel, M.E., Klockenbrink, P., Witink, J., Dietrich, S., Tiede, R., Fan, J.,

& Posner, M.I., Attention and executive functions in patients with severe obesity A

controlled study using the Attention Network Test (2005) *Der Nervenarzi*

(IN GERMAN)

Cichetti, D. & Posner, M.I. (2005) [editorial] Cognitive and affective neuroscience and

developmental psychopathology. *Development and Psychopathology* **17**, 569-575.

Clarkin JF & Posner M (2005) Defining the mechanisms of borderline personality

disorder Psychopathology 38, 56-63

Fan, J., McCandliss, B.D., Fossella, J., Flombaum, J.I., & Posner, M.I.

(2005) The activation of attentional networks *Neuroimage* **26**:471-9

Posner, M.I. & Rothbart, M.K. (2005) Influencing brain networks: implications for

education. *Trends in Cognitive Science* **9**, 99-103

Posner, M.I. (2005) Timing the brain: mental chronometry as a tool in neuroscience. *Pub L. of Sci Biology*  **3**, 204-206.

Posner, M.I. (2005) How I got here in S.W. Keele & E. Awh & U.Mayr (eds)

Developing individuality in the human brain. Washington DC:APA Books

Posner,M.I. (2005) Genes and experience shape brain networks of conscious control

In S. Laureys ed. Progress in Brain Research Vol. 150 Ch. 12, pp 173-183

Posner, M.I. (2005) Commentary on Becoming Aware of Feelings.  *Neuro-*

*Psychoanalysis***7**, 55-57.

Myachykov, A. & Posner, M.I. Attention in language In Itti, Ll, Rees, G., & Tsotsos,

J.K. (2005) Neurobiology of attention. San Diego: Elsevier 324-329

Myachykov, A., Tomlin, R.S. & Posner, M.I. (2005) Attentional and empirical studies of

grammar  *Linguistic Review* **22**, 347-364

Raz, A. Leiber, B., Soliman, F., Buhle, J., Posner, J. Petersen, B.S. & Posner, M.I. (2005)

Ecological nuances in functional magnetic resonance imaging (fMRI): psychological

stressors, posture, and hydrostatics *Neuroimage* **25**. 1-7.

Raz, A., Fan, J. & Posner, M.I. (2005) Hynotic suggestion reduces conflict in the human

brain*. Proc. of the Nat’l Acad of Sciences USA* **102**, 9978-9983

Rothbart, M.K. & Posner, M.I. (2005) Genes and experience in the development of

executive attention and effortful control. In L.A. Jensen & R.W. Larson (eds) New

horizons in developmental theory and research. San Francisco:Jossey-Bass p.101-108

Rueda, M.R., Posner, M.I., & Rothbart,M.K. (2005) The development of executive

attention: contributions to the emergence of self regulation. *Developmental*

*Neuropsychology* **28**, 573-594

Rueda, M.R., Rothbart, M.K. McCandliss, Saccamanno, L. & Posner, M.I. (2005)

Training, maturation and genetic influences on the development of executive

attention *Proc.U.S Nat’l Acad of Sciences* **102**, 14931-14936.

Wang, K. J., Fan,J.,  Dong, Y. Wang, C., Lee, TMC & Posner, M.I (2005) Selective

impairment of attentional networks of orienting and executive control in schizophrenia

*Schiz. Research* **78**, 235-241

Berger, A., Tzur, G. & Posner, M.I. (2006) Infant babies detect arithmetic error.

Proceeding of the National Academy of Science USA 103, 12649-12553

Gardner, T.W., Dishon, T.J. & Posner, M.I. (2006) Attention and adolescent tobacco use:

a potential self regulatory dynamic underlying nicotine addiction. Addictive Behaviors **31**, 531-536

Ivry R.B., Mayr U., Corcos D.M., & Posner MI (2006) Psychological processes and

neural mechanisms for action: The legacy of Steven W. Keele Journal of Motor Behavior 38, 3-6

Pardo, J.V., Pardo, P.J., Humes, S.W. & Posner, M.I. (2006) Neurocognitive disfunction

in antidepressant free non-elderly patients with unipolar depression: Alerting and covert

orienting of visuospatial attention. *J. of Affective Disorders* **92**, 71-78

Posner, M.I., Sheese, B, Odludas, Y., Tang, Y. (2006) Analyzing and

shaping neural networks of attention. Neural Networks19, 1422-1429

Posner, M.I. (2006) Neuropsychology of human attention networks. *Revista de*

*Neuropsychologia* **1**, 19-24.

Raz, A., Fan, J., Posner, M.I. (2006) Neuroimaging and genetic association of attentional

and hypnotic processes. Journal of Physiology-Paris **99**, 483-491

Rothbart, M.K. & Posner, M.I. (2006). Temperament, attention, and developmental psychopathology.

in D. Cicchetti & D. J. Cohen (eds.), *Handbook of Developmental*

*Psychopathology Vol. 2* Revised. New York:Wiley Press. 465-501

 Rothbart, M.K., Posner, M.I. & Kieras, J. (2006) Temperament attention and self

regulation. In K. McCartney & D. Phillips (eds.) Handbook of early childhood

development. Ch. 17 pp. 338-357

Fan, J., Byrne, J., Worden, M.S., Guise, K.G., McCandliss, B.D., Fossella, J., & Posner,

M.I. (2007) The relation of brain oscillations to attentional networks. *J. Neurosci*. 27,

6197-6206

Goldstein, M., Brendel, G., Tuescheer, O., Pan, H., Epstein, J., Beutel, M., Yang, Y.H.,

Thomas, K. Levy, K., Silverman, M., Clarkin, J., Posner, M., Kernberg, O., Stern, E.,

& Silbersweig, D. (2007) Neural substrates of the interaction of emotional stimulus

process and motor inhibitory control: An emotional linguistic go/no-go fMRI study.

*Neuroimage***36**, 1026-1040

Myachykov, A., Posner, M.I. & Tomlin, R.S. (2007) A parallel interface for language

and Cognition in sentence production: theory, method and experimental evidence.

*Linguistic Review* **24**, 457-474

Posner, M.I. & Rothbart, M.K.(2007) Educating the human brain. Washington DC:APA

Books

Posner, M.I. & Rothbart, M.K. (2007) Research on attention networks as a model for the

integration of psychological science *Ann Rev of Psychology* 58, 1-23.

Posner, M.I., Rothbart, M.K. & Sheese, B.E. (2007) Attention Genes *Developmental*

*Science* 10, 24-29

Posner, M.I., Rothbart, M.K., Sheese, B.E. & Tang, Y. (2007) The anterior cingulate

gyrus and the mechanisms of self regulation. J. of Cog, Affective and Soc Neurosci

7, 391-395

Posner, M.I., Rueda, M.R. & Kanske, P. (2007) Probing the mechanisms of attention.

In J.T. Cacioppo, J.G. Tassinary & G.G. Berntson (eds) Handbook of ,

Psychophysiology 3rd Ed. Cambridge U.K.: Cambridge University Press 410-32

Rothbart, M.K., Sheese, B.E., & Posner, M.I. (2007) Executive Attention and Effortful

Control: Linking Temperament, Brain Networks and Genes *Child* *Development*

*Perspectives* **1,** 2-7

Rueda, M.R.,Rothbart, M.K.Saccomanno, L., & Posner, M.I. (2007) Modifying

brain networks underlying self regulation in D. Romer & E.F. Walker (eds)

Adolsecent Psychopathology and the Developing Brain. New York:Oxford

Ch. 18 p. 401-419.

Sheese, B.E.,Voelker, P.M., Rothbart, M.K., & Posner, M.I. (2007) Parenting quality

interacts with genetic variation in Dopamine Receptor DRD4 to influence

temperament in early childhood *Devel & Psychopathology* **19,** 1039-1046

Silbersweig D., Clarkin JF, Goldstein M., Kernberg OF., Tuescher O Levy KN, Brendel,G Pan H, Beutel M., Pavony ME., Epstein J. Lenzenweger MF., Thomas KM., Posner MI,& Stern E (2007) Failure of frontolimbic inhibitory function in the context of negative emotion in borderline personality disorder American J. of Psychiatry 164: 1832-41

Tang, YY, Ma, Y, Wang, J.,  Fan, Y., Feng, S., Lu, Q., Yu, , Sui, D., Rothbart, M.K. Fan,

M. & Posner, M.I.(2007)Short term meditation training improves attention and self

Regulation. *Proc. Nat’l Acad of Sci USA* **104**, 17152-17156.

Fan, J., Hof, P.J., Worden, M.S., Guise, K.G., McCandliss, B.D., Fossella, J., & Posner,

M.I. (2008) The Functional Integration of the Anterior Cingulate Cortex during

Conflict Processing *Cerebral Cortex* **18,** 796-805

Fossella, J., Fan, J., Liu, X., Guise, K., Brocki, K., Hof, P.R., Kittappa, R., McKay, R.,

Posner, M. (2008) Provisional hypotheses for the molecular genetics of cognitive

development: imaging genetic pathways in the anterior cingulate cortex**.** *Biological*

*Psychology* ***79****, 23-29*

Posner, M.I. (2008) Measuring Alertness In D.W Pfaff& B.L. Kieffer (eds) *Molecular*

*and Biophysical Mechanisms of Arousal, Alertness and Attention* Boston: Blackwell,

N.Y. Acad of Sci. pp193-199.

Posner, M.I. (2008) the Neuropsychology of Attention in P. Marien & J. Abutalebi (eds)

Neuropsychological Research: A Review New York: Psychology Press Ch. 18 p331-

348

Posner, M.I. (2008) Evolution and development of self regulation. 77th Arthur Lecture

On Human Brain Evolution New York: American Museum of Natural History

Posner, M.I. (2008) Overview of higher order perception In J.R. Pomerantz (ed)

*Topics in Integrative Neuroscience* New York: Cambridge University Press. Pp 25-30

Posner, M.I. (2008) Attention and the semantics of consciousness. Psyche vol **16**

<http://www.journalpsyche.org/ojs-2.2/index.php/psyche/issue/view/104>

Posner, M.I. (2008) Mental Chronometry: long past bright future. Ch 17 in Patrick

Rabbitt (ed) Inside Psychology: a science over 50 years. Oxford U.K.:Oxford

University Press. Pp. 207-217.

Posner, M.I. & Fan, J. (2008) Attention as an organ system. In J.R. Pomerantz (ed)

*Topics in Integrative Neuroscience* New York: Cambridge University Press. Ch.2.

Pp 31-61

Posner, M.I., Rothbart, M.K., & Rueda, M.R. (2008) Brain mechanisms and

learning of high level skills. In Battro, A.M., Fischer, K.W. & Lena, P.J. eds

The Educated Brain. Cambridge UK:Cambridge University Press pp151-165

Posner, M.I. Rothbart, M.K. Sheese, B.E. & Kieras, J. (2008) How arts training

influences cognition in C. Asbury and B. Rich eds. *Learning Arts and the Brain*

Washington:Dana Press

Sheese, B.E., Rothbart, M.K, Posner, M.I., White, L.K. & Fraundorf, S.H. (2008)

Executive attention and self regulation in infancy. *Infant Behavior and Development*

**31**, 501-510

Tang, Y. & Posner, M.I. (2008) The neuroscience of mindfulness *NeuroLeadership*

*Journal* **1,** 33-37.

Fan, J., Gu, X., Guise, K.G., Liu, X., Fossella, J., Wang, H., & Posner, M.I. Testing the

behavior interaction and integration of attentional neworks. (2009) *Brain and Cog.*

**70,** 209-220

Fan,, Y. Tang, Y-Y.,Ma, Y., & Posner, M.I. (2009) Muscosal immunity modulated by

meditation in a dose dependent fashion. *J.of Alternative and Complementary*

*Medicine.* **16**, 1-5

Fosella, J., Fan J. & Posner, M.I. (2009) Candidate genes associated with attention and

cognitive control In T.E. Goldberg and D. R. Weinberger eds The Genetics of Cognitive Neuroscience Ch. 5 123-144.

Posner, M.I. (2009) Development of self regulation. In H. Eswaran and N.C.

Singh eds. Advances in Developmental Neuroscience and Imaging. New

Delhi:Anamaya Ch. 3 pp 24-35

Posner, M.I. (2009) Attention in R.A. Shweder (ed) The Child Chicago:University of

Chicago Press p.p 77-79

Posner, M.I. Foreword in S.J. Lipina & J.A.(2009) Colombo Poverty and Brain

Development During Childhood. Washington DC:American Pschological

Assoc. *p vi-viii..*

Posner, M.I. Foreword in S,D, Calkins and M.A. Bell (eds) (2009) Child Developmenetqt

the intersection of emotion and cognition. Washington DC:American Pschological

Assoc. *p ix-x..*

Posner, M.I. (2009) Attention, awareness and mindfulness in psychotherapy: a dialog

*Studies in Gestalt Therapy: Dialogical Bridges*. **3**, 2 13-34

Posner, M.I. & Rao, S. (2009) Cognitive Neuroscience: Development and Prospects

In N. Mukunda (ed) Current Trends in Science. Platinum Jubilee Special

Bangalore: Indian Academy of Sciences

Posner, M.I.. & Rothbart, M.K (2009). Toward a physical basis of attention and self

regulation *Physics of life reviews* **6/2**103-120

Rothbart, M.K., Posner, M.I., Rueda, M.R., Sheese, B.E., & Yang, Y-Y. (2009)

Enhancing self regulation in school and clinic. In D. Cicchetti & M.R. Gunnar (eds).

Minnesota Symposium on Child Psychology Vol. 35: Meeting the Challenge of

Translational Research in Child PsychologyHoboken N.J.:John Wiley pp. 115-158

Sheese, B. E., Voelker, P, Posner, M. I. and Rothbart, M. K. (2009) 'Genetic variation

influences on the early development of reactive emotions and their regulation by

attention,*Cognitive Neuropsychiatry*,**14**:4,332 — 355

Tang, Y. & Posner, M.I. (2009) Attention training and Attention State Training. *Trends*

*in Cognitive Science* **13,** 222-227

Voelker, P. Sheese, B.E., Rothbart, M.K & Posner, M.I. & . (2009)

Variations in COMT Gene Interact With Parenting to Influence Attention in Early

Development *Neuroscience* 164/1 121-130

Abdullaev, Y., Posner, M.I., Nunnally, R & Dishion, T. (2010) Functional MRI evidence

for inefficient attentional control in adolescent chronic cannabis abusers. *Behavioural*

*Brain Reserch*  **215** 45-57

Fan, Y. X., Tang, Y.Y., Ma, Y.H., & [Posner M.I](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=3D5dmbEDLN9961H@Bb7&field=AU&value=Posner%20MI&ut=000274891600005&pos=4) (2010) Mucosal Immunity

Modulated by Integrative Meditation in a Dose-Dependent Fashion



*Journal of Alternative and Complementary Medicine***16 /2**151-155

Posner, M.I. (2010) Neuroimaging tools and the evolution of educational neuroscience

In David A. Sousa (Ed) Mind Brain and Education Bloomington IN: Solution Tree

Press Ch. 2 pp. 26-43

Posner, M.I. & Patoine, B (2010) Ch.2 How arts training improves attention and cognition *In Dan Gordon editor Cerebrum: Emerging in Brain Science* Washington DC:Dana Press

Posner, M.I. & Rothbart, M.K. (2010) Origins of executive attention. 1st Paul Baltes

Lecture In Peter A. Frensch & Ralf Schwarzer (eds) Cognition and Neuropsychology

Vol 1 International Perspectives on Psychological Science New York: Psychology

Press pp 3-13.

Posner, M.I. & Rothbart, M.K. (2010) Applying Mechanisms of Self Regulation Ch 3 in

M.A. Gernsbacher, R.W. Pew, L.M. Hough & J.M. Pomerantz (eds) *Psychology and*

*the real world* NY:Worth Publisher Pp 31-36

Posner, M.I., Rothbart,, M.K., Rueda, M.R. & Tang, Y.(2010) Training effortless

attention.In B. Bruya (ed) Effortless attention: A new perspective in the Cognitive

Science of attention and action Ch. 15 409-424

Posner,.M.I., Rothbart, M.K. & Sheese, B.E. (2010) Genetic variation influences how

the social brain shapes temperament and behavior. In P.A. Reuter-Lorenz, K. Baynes,

G.R. Mangun & E.A. Phelps (eds) The Cognitive Neuroscience of Mind. A Tribute to

Michael S. Gazzaniga Ch. 9 125-138

Tang, Y., Lu, Q., Geng, X., Stein, E.A., Yang, Y., & Posner, M.I*.* (2010) Short term

mental training induces white-matter changes in the anterior cingulate  *PNAS* **107/35**

15649-15652

Tzur, G., Berger, A., Luria, R., & Posner, M.I. (2010) Theta synchrony supports Weber-

Fechner and Stevens' Laws for error processing, uniting high and low mental

processes *Psychophysiology* **47/4** 758-766

Dishion, T.J., Felver-Grant, J.C., Abdullaev, Y., & Posner, M.I. (2011) Self-Regulation and Adolescent Drug Use: Translating Developmental Science and Neuroscience into Prevention Practice In M.T. Bardo, D.H. Fishbein & R. Milich (Eds) Inhibitory control and drug abuse prevention: from research to translation.

Pages 281-301 DOI: 10.1007/978-1-4419-1268-

Posner, M.I. (2011) Foreword to A Berger Self regulation: Brain, Cognition and

Development Washington DC APA Books xi-xii

Posner, M.I. (2011) A Life in Psychology In L.R.Squire ed The History of

Neuroscience in Autobiography Vol 7 New York:Oxford University Press 562-582

Posner, M.I. & Rothbart, M.K. (2011) Brain states and hypnosis research *Consciousness*

*& Cognition* 2**0**, 325-327

Rothbart, M.K., Sheese, B.E., Rueda, M.R., & Posner, M.I. (2011) Developing

mechanisms of self-regulation in early life. *Emotion Review* *3/2,* 207-213

Rothbart, M.K., Ellis, L.K., & Posner, M.I. (2011) Temperament and self regulation

In K. D. Vohs & R.F. Baumeister (Eds.),  *Handbook of self-regulation: Research,*

*theory and applications* (2nd ed., pp. 441-460). New York: Guilford.

Rueda, M.R., Posner, M.I., Rothbart, M.K. (2011). Attentional control and self regulation

In K. D. Vohs & R.F. Baumeister (Eds.),  *Handbook of self-regulation: Research,*

*theory, and applications* (2nd ed., pp 284-299). New York: Guilford.

van IJzendoorn, M.H., Bakermans-Kranenburg, M.J., Belsky, J. Beach, S., Brody, G.,

Dodge,K.A., Greenberg, M., Posner, M. & Scott, S. (2011) [Gene-by-environment experiments: a new approach to finding the missing heritability](http://www.nature.com/nrg/journal/v12/n12/full/nrg2764-c1.html) Nature Reviews Genetics 12, 881- doi:10.1038/nrg2764-c1

Xue, S., Tang, Y.Y., & Posner, M.I. (2011) Short-term meditation increases network

efficiency of the anterior cingulate cortex Neuroreport DOI:10.1097/WNR.0b013e328348c750

Lipina S. J. & Posner M. I. (2012) The impact of poverty on the development of brain

Networks. Frontiers in Human Neuroscience **6** 00238

DOI=10.3389/fnhum.2012.00238

Petersen, S.E. & Posner, M.I. (2012) The attention system of the human brain:

20 years after. Annual Review of Neuroscience 35, 71-89

Posner, M.I. (2012) Expandings horizons in ergonomic research. *Neuroimage* **59**, 149- 153 doi:10.1016/j.neuroimage 2011.07.060

Posner, M.I. ed. (2012) Cognitive Neuroscience of Attention 2nd Edition New York: Guilford

Posner, M.I. (2012) Attention in a social world New York: Oxford Univ. Press

Posner, M.I. (2012) Progress in attention research 2004-2011 in M.I. Posner (ed) Cognitive Neuroscience of Attention 2ndedition New York: Guilford pp 1-8

Posner, M.I.( 2012) Imaging attention networks. *Neuroimage*  **61/2** 450-456 *doi 10.1016/neuroimage,2011.12.040*

Posner, M.I. (2012) Attentional networks and consciousness Frontiers in Consciousness 3, doi 10:3388Psy 2012:00064

Posner, M.I. (2012) An olfactory life in G.M. Zucco, R.S. Herz & B. Schaal (eds)

Olfactory Cognition: From Perception and Memory to Environmental Odours and Neuroscience Amsterdam:John Benjamins

Posner M.I. (2012) A definitive volume on temperament. Front. Psychology 3:332. doi: 10.3389/fpsyg.2012.00332

Posner,M.I. & Rothbart, M.K. (2012) Brain Networks in Health and Illness Ch. 4 in O.J.Z. Sahler & J.E. Carr(ed)The Behavioral Sciences and Health Care 3rd Edition Cambridge Mas: Hogrefe Publisher pp 31-35

Posner, M.I. & Rothbart, M.K. (2012) Willpower and Brain Networks *Bulletin of the International Society for Behavioral Development* 2012 vol number 1 p. 7-10

Posner, M.I., Rothbart, M.K. & Rueda, M.R.(2012) Desarrollo de la autoregulacion y desempeno escolar In S. Lapina & M. Sigman (eds) La Pizarra de Babel Buenos Aires:Zorzal 133-152

Petersen, S.E. & Posner, M.I. (2012) The attention system of the human brain:

20 years after. Annual Review of Neuroscience 35, 71-89

Posner, M.I., Rothbart, M.K., Sheese, B.E., Voelker, P. (2012) Control Networks and Neuromodulators of Early Development

*Developmental Psychology* **48/3**, 827-835 DOI:10 1037/a0025530

Sheese, B.E., Rothbart, M.K., Voelker, P., & Posner, M.I. (2012) The dopamine

receptor D4 gene 7 repeat allele interacts with parenting quality to predict Effortful

Control in four-year-old children *Child Development Research* **vol 2012** ID 863242,

doi:10.1155/2012/863242

Tang, Y-Y.,Lu, Q., Fan, M., Yang, Y., & Posner,M.I. (2012) Mechanisms of White

Matter Changes Induced by Meditation *Proceedings of the National Academy of*

*Sciences USA* 109 (26) 10570-10574 *doi10/.1073pnas.1207817109*

Tang, Y-Y., Rothbart, M.K., & Posner, M.I. (2012) Neural correlates of establishing, maintaining, and switching [brain](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=4BbDz7b4ZmKyh9JDCZM&page=2&doc=11) states Trends in Cognitive Science 16/6 330- 337

Fan, Y., Tang, Y-Y., & Posner, M.I. (2013) Cortisol level modulated by integrative

meditation in a dose-dependent fashion Stress Health DOI: 10.1002/smi.2497

### Ghassemzadeh, H., Posner, M.I. & Rothbart, M.K., (2013) Contributions of Hebb and Vygotsky to an Integrated Science of Mind Journal of the History of Neuroscience. 22/3, 292-306

Posner, M.I. (2013) Foreword in B.R. Kar (ed) Cognition and Brain Development

Washington DC: APA books xi-xiii

Posner, M.I. (2013) The Expert Brain Ch 6 in J.J. Stazewski (ed) Expertise and skill

Acquisition: The impact of William G. Chase London:Psychology Press pp 243-59

Posner,M.I. & Rothbart, M.K. (2013) Development of Attention Networks in B.R. Kar (ed) Cogntion and Brain Development Washington DC: APA books 61-84

Posner MI, Rothbart, MK.K. & Tang Y. (2013) Developing self-regulation in early childhood. Trends in Neuroscience and Education

http://dx.doi.org/10.1016/j.tine.2013.09.001i

Rueda,M.R. & Posner, M.I. (2013) Development of attention networks in P. D. Zelazo

(ed) The Oxford Handbook of Developmental Psychology vol. I Body and Mind

Ch.24 pp 683-705.

Tang, YY & Posner, MI (2013) Special issue on mindfulness neuroscience

Social cognitive and affective neuroscience 8/ 1 p.1-3 DOI:10.1093/scan/nss104

Tang, YY & Posner, MI (2013) Tools of the trade: theory and method in mindfulness

Neuroscience Social cognitive and affective neuroscience 8/1, 118-120 DOI

10.1093/scan/nss112

Tang, Y-Y, Tang, R., & Posner, M.I. (2013) Brief meditation training induces smoking

reduction. Proceedings of the US National Academy 110/34 13971-13975

Ding, XQ, Tang, YY , Tang, RX & Posner, MI (2014) Improving creativity performance by short-term meditation Behavioral and Brain Functions

10, 9 DOI: 10.1186/1744-9081-10-9

Fan, YX, Tang, YY & Posner, MI (2014) Cortisol level modulated by integrative meditation in a dose-dependent fashion

Stress and Health 30/1 p 65-70 DOI: 10.1002/smi.2497

Posner, M.I. (2014) Orienting of attention: then and now. Quarterly Journal of Experimental Psychology <http://dx.doi.org/10.1080/17470218.2014.937446>

Posner, M.I. (2014) Comment on Hobson dream theory In N. Tranquillo ed Dream Consciousness Switzerland:Springer International page 187-188

Posner, M.I. (2014) Foreword: Imaging the Future in D. Mareschal, B. Butterworth

& A. Tolmie (eds) Educational Neuroscience London:Wiley Blackwell XII-XV

Posner, M.I. (2014) Guides to the study of attention. In K. Nobre & S. Kastner eds Handbook of AttentionLondon: Oxford University Press Ch. 1 pp 3-7

Posner, M.I. Rothbart, M.K. & Rueda, M.R. (2014) Developing Attention and Self Regulation In Childhood In K. Nobre & S. Kastner eds Handbook of Attention London: Oxford University Press Ch.19 pp541-569

Posner, M.I. , Rothbart, M.K. Sheese, B.E. & Voelker, P. (2014) Developing

  Attention: Behavioral and Brain Mechanisms. Adv. *Advances in*

*Neuroscience* **Volume 2014**, Article ID 405094

http://dx.doi.org/10.1155/2014/405094 NIHMSID 596939

Posner M.I. & Rothbart, M.K.Attention to learning of school subjects.

(2014) *Trends in Neuroscience and Education*

<http://dx.doi.org/10.1016/j.tine.2014.02.003i>

Posner, M.I., Tang, Y.Y. & Lynch, G. (2014) Mechanisms of white matter change induced by meditation. Frontiers in Psychology published: 27 October 2014 doi: 10.3389/fpsyg.2014.01220

Rothbart, M.K. & Posner, M.I. (2014) Book review of Romania’s abandoned children. Times Higher Education March 13, 2014 p.51

Tang, YY, Posner, M.I. & Rothbart,M.K. (2014) Meditation improves self-regulation over the life span. In Advances in meditation research:

neuroscience and clinical applications. V New York Acade of Sci 1307 p104- 111 DOI: 10.1111/nyas.12227

Tang YY & Posner, MI (2014) Training brain networks and states Trends in Cognitive Science 18/7, 345-350 http://dx.doi.org/10.1016/j.tics.2014.04.002

Xue S, Tang YY, Tang R, Posner MI. (2014) Short-term meditation induces changes

in brain resting EEG theta networks. *Brain and Cognition*  87:1-6

[Ding, XQ](http://apps.webofknowledge.com/OneClickSearch.do?product=WOS&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&colName=WOS&SID=4BwVgmCJudN3FODTm3J&field=AU&value=Ding,%20XQ), [Tang, YY](http://apps.webofknowledge.com/OneClickSearch.do?product=WOS&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&colName=WOS&SID=4BwVgmCJudN3FODTm3J&field=AU&value=Tang,%20YY), [Deng, YQ](http://apps.webofknowledge.com/OneClickSearch.do?product=WOS&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&colName=WOS&SID=4BwVgmCJudN3FODTm3J&field=AU&value=Deng,%20YQ).,[Tang, RX](http://apps.webofknowledge.com/OneClickSearch.do?product=WOS&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&colName=WOS&SID=4BwVgmCJudN3FODTm3J&field=AU&value=Tang,%20RX) , & Posner, MI

(2015) Mood and personality predict improvement in creativity due to meditation training. *Learning and individual differences* 37, 217-221

[Ding, XQ](http://apps.webofknowledge.com/OneClickSearch.do?product=WOS&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&colName=WOS&SID=4BwVgmCJudN3FODTm3J&field=AU&value=Ding,%20XQ), [Tang, YY](http://apps.webofknowledge.com/OneClickSearch.do?product=WOS&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&colName=WOS&SID=4BwVgmCJudN3FODTm3J&field=AU&value=Tang,%20YY), [Cao, C](http://apps.webofknowledge.com/OneClickSearch.do?product=WOS&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&colName=WOS&SID=4BwVgmCJudN3FODTm3J&field=AU&value=Cao,%20C), [Deng, YQ](http://apps.webofknowledge.com/OneClickSearch.do?product=WOS&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&colName=WOS&SID=4BwVgmCJudN3FODTm3J&field=AU&value=Deng,%20YQ) , [Wang, Y](http://apps.webofknowledge.com/OneClickSearch.do?product=WOS&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&colName=WOS&SID=4BwVgmCJudN3FODTm3J&field=AU&value=Wang,%20Y), [Xin, X](http://apps.webofknowledge.com/OneClickSearch.do?product=WOS&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&colName=WOS&SID=4BwVgmCJudN3FODTm3J&field=AU&value=Xin,%20X). & [Posner, MI](http://apps.webofknowledge.com/OneClickSearch.do?product=WOS&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&colName=WOS&SID=4BwVgmCJudN3FODTm3J&field=AU&value=Posner,%20MI) (2015) Short-term meditation modulates brain activity of insight evoked with solution cue *Social Cognitive and Affect Neuroscience* **10/1** 43-49

Fan, Y.X., Tang, Y-Y, Tang, R.X., & Posner, M.I. (2015) Time course of conflict processing modulated by brief meditation training *Frontiers in Psychology* 6/911 DOI: 10.3389/fpsyg.2015.00911

Posner, M.I. Rothbart, M. K., & Tang, Y-Y. (2015). Enhancing attention through training. *Current Opinion in Behavioral Sciences*, 4, 1-5. Posner, M.I.(2015) Oscar Marin and the creation of a cognitive neuropsychology laboratory *Cognitive behavioral neurology* **28/3** 129-133 Rothbart, M.K.& Posner,M.I. (2015) The developing brain in a multitasking world Developmental Review 35, 42-63 Tang, Y.Y., Holzel, B.K. & Posner,M.I. (2015) The neuroscience of mindfulness meditation *Nature Reviews Neuroscience* **16**, 213-225

Tang, Y.Y. & Posner, M.I. (2015) Mindfulness in the context of the attention system. In K.W. Brown, J.D. Creswell & R.M. Ryan (eds). Handbook of Mindfulness New York: Guildford Press p 81-89. Tang Y, Tang R, Lu Q, Feng H and Posner MI (2015) Short-term meditation increases blood flow in anterior cingulate cortex and insula. *Front. Psychol*. 6:212. doi:10.3389/fpsyg.2015.00212

Tang, Y-Y., Posner, M.I., Rothbart, M.K., & Volkow, N.D. (2015) Circiuitry of self control and its role in reducing addiction. *Trends in Cognitive Science* **19/8** pp 439-445

Posner, M.I. (2016) Imaging the human brain in R. J. Sternberg, S.T. Fiske, & D.J. Foss Scientists Making a Difference New York:Cambridge Univ. Press ch. 12,

pp 58-61

Posner, M.I. Rothbart, M.K. & Voelker, P (2016) Developing brain networks of attention *Current Opinion in Pediatrics* 28(6): 720–724

Tang, Y-Y. Holzel, B.K. & Posner, M .I. (2015) Traits and states in mindfulness

meditation *Nature Reviews Neuroscience* 16, 213-225

Tang, Y-Y, & Posner, M.I. (2016) Influencing conflict in the human brain by changing brain states in Amir Raz &Michael Lifshitz (eds) Hypnosis and meditation. Oxford: Oxford University Press pp 303-312

Tang, T-Y, Tang, R., & Posner, M.I. (2016) Mindfulness meditation improves emotion regulation and reduces drug abuse. *Drug and Alcohol Dependence* **163**, S13-18

Voelker, P., Rothbart, M.K. & Posner, M.I. (2016) A polymorphism related to methylation influences attention during performance of speeded skills. *AIMS Neuroscience* 3(1):40-55.

Ghassemzadeh, H., Rothbart, M.K., & Posner, M.I. (2017) Mechanisms of response prevention and the use of exposure therapy for obsessive-compulsive disorder

International Journal of Psychiatry 2/1 30 April 1-8

Posner, M.I.(ed) (2017) Psychology of Attention 4 volumes of classic papers in attention London: Routledge pp 1-2266

Posner, M.I. (2017) Introduction to 2.5 millinea of research on attention In M.I. Posner(ed) Psychology of Attention London:Routledge pp

Posner, M.I. (2017) Integrating technologies in the study of attentional networks

In *Robert L. Kane and Thomas D. Parsons (eds)*The Role of Technology in Clinical Neuropsychology\_. Oxford:Oxford University Press pp 445-454

Posner, M.I., 2017. Attentional Mechanisms. In: John Stein, J.S. (Ed.), Reference Module in Neuroscience and Biobehavioral Psychology. Elsevier, pp. 1–6.

Posner , M.I. (2017) Cognitive Neuroscience In *SAGE Encyclopedia of Educational Research, Measurement, and Evaluation New York: Sage Publishing* Posner, M.I. (2017) Foreword Toward a mindful brain to Tang, Y-Y, The neuroscience of mindfulness meditation. Palgrave/McMillan: New York vii-vix

Posner M.I. & Rothbart, M.K. (2017) Brain Networks in Health and Illness Olle Sahler, John Carr, Julia Frank & Joao V. Nunes (eds) The Behavioral Science of Health Care ed IV: Boston Mass. Pp33-37

Posner M.I. & Rothbart, M.K. (2017) Integrating Brain, Cognition and Culture Journal of Cultural Cognitive Science 1 DOI: 10.1007/s41809-017-0001

Voelker, P., Sheese, B.E., Rothbart, M.K. & Posner,M.I. (2017) Methylation polymorphism influences practice effect in children during attention tasks *Cognitive Neuroscience* **. 8 /2** 72-84

Voelker, P., Piscopo, D., Weible, A., Lynch G., Rothbart, M.K., Posner,M.I. & Niell, C.M. (2017) How changes in white matter might underlie improvement in reaction time with practice *Cognitive Neuroscience* **8 /2**, 112-118

Voelker, P., Piscopo, D., Weible, A., Lynch G., Rothbart, M.K., Posner,M.I. & Niell C.M. (2017) White matter and reaction time: a reply to commentaries *Cognitive Neuroscience*  **8/2** 137-140

Weible, A.P., Piscopo, D.M., Rothbart, M.K., Posner, M.I.,& Niell, C.M. (2017)Rhythmic Brain Stimulation Reduces Anxiety-Relate Behavior in a Mouse Model Based on Meditation Training *Proceedings of the US National Academy of Sciences*  **114**/no10 2532-2537

Piscopo, D., Weible, A., Rothbart, M.K., Posner, M.I. & Niell,C.M. (2018) Changes in white matter in mice resulting from low frequency brain stimulation Proceedings of the National Academy of Sciences USA  115/27 6639-6646 <https://doi.org/10.1073/pnas.1802160115>

Posner MI & Rothbart MK. (2018) Temperament and brain networks of attention. Phil. Trans. R. Soc. B 373 :20170254. <http://dx.doi.org/10.1098/rstb.2017.0254>

Posner, M.I., & Rothbart, M.K. (2018) Parenting and human brain development. In M.A. Sanders & A. Morawska (eds) Handbook of Parenting and Child Development Across the Lifespan Springer Int’l Publishing 173-199

Uher, J., Trofimova, I., Sulis, W, Netter, P., Pessoa, L., Posner, M.I., Rothbart, M.K., Rusalov, V., Peterson, I.T., & Schmidt, L.A. (2018)

Diversity in action: exchange of perspectives and reflections on taxonomies of i ndividual differences Phil. Trans Royal Society B 373: 20170172.

Ghassemzadeh, H. Rothbart, M.K. & Posner, M.I.(2019) Anxiety and brain networks of attentional control. Cognitive and Behavioral Neurology 32/1, 54-62

Posner, M.I. (2019) Ch. 5 Attention: Awareness and Control in R.J Sternberg & W.E. Pickering (EDS) The intellectual history of psychology Cambridge Univ Press 111-134

Posner M.I. (2019) Connecting networks to neurons in Amir Raz & Robert T. Thibaut Eds Casting light on the dark side of brain imaging. Ch. 25 p.145-147 London:Academic Press

Posner, M.I. & Niell, C.M. (2019) Illuminating neural circuits underlying orienting of attention. Vision 3, 4; doi:10.3390/vision3010004

Posner, M.I., Rothbart, M.K. & Ghassemzadeh, H (2019) Restoring Attention Networks Yale Journal of Biology and Medicine 92/1, 139-143.

Posner, M.I. & Rothbart, M.K. (2019) Controlling fear over the lifespan

The American Journal of Psychiatry 176/12, 974-975

<https://doi.org/10.1176/appi.ajp.2019.19101037>

Tang, Y-Y, Tang, R., Rothbart, M.K. & Posner, M.I. (2019) Frontal theta activity and white matter plasticity following mindfulness meditation. Current Opinion in Psychology 28, 294-297

Weible, A.P., Posner, M.I. & Neill, C.M. (2019) Differential involvement of three brain regions during mouse skill learning." *eNeuro*. 6/4. 0143-19.2019;

DOI: https://doi.org/10.1523/ENEURO.0143-19.2019

Posner, M.I. (2020) Rehabilitating the brain through meditation and electrical stimulation *Cortex* **122/1,** 6-9 <https://doi.org/10.1016/j.cortex.2018.07.022>

Posner, M.I. (2020) Cognitive Neuroscience, Attention

6 Networks and Training the Brain in T. Witkowski (ed) Shaping Psychology

Ch.4 pp 45-59

Posner,M.I. & Barbey, A.K. (2020) General intelligence in the age of neuroimaging

Trends in Neuroscience and Education 18, 10026

Posner, M.I., Rothbart, M.K. & Ghassemzadeh, H. (2020) Developing attention in typical children related to disabilities in A. Gallagher, C. Bulteau, D.Cohen & J.L. Michaud (editors) Handbook of Clinical Neurology Vol 1, Ch. 18, 215-223

Rothbart, M.K., Posner, M.I. & Sheese, B.E. (2020 Temperament and Brain Networks of

Attention in P.J. Corr & G. Matthews (ed) The Cambridge Handbook of Personality Psychology second edition. Ch. 11, 155-168

Voelker, P, Parker, A.N., Luu, P., Davey,C., Rothbart, M.K.,& Posner, M.I. (2020)

Increasing the amplitude of intrinsic theta in the human brain. *AIMS Neuroscience* 7/4 418-437

Posner, MI & Rothbart M.K (2021) Enhancing Intelligence In The Cambridge Handbook of Intelligence and Cognitive Neuroscience Edited by Aron K. Barbey , Sherif Karama , Richard J. Haier. Ch 18 page 367-381

Voelker, P., WeibleA.P., Niell, C.M., ChavezR.S., Tovar, D.T., Rothbart, M.K. & Posner, M.I. (2021). Evaluating an Approach to Improving Attention Networks by Theta Stimulation Journal of Physical Medicine and Rehabilitation 3/1, 17-22

Posner, M.I. (2022) Developing a Brain: A Life in Psychology. Parker, CO: Outskirts Press

Posner, M.I., Weible, A.P., Voelker, P., Rothbart, M.K. & Niell, C.M. (2022) Decision Making as a Learned Skill in Mice and Humans *Frontiers in Neuroscience* 16:834701.doi: 10.3389/fnins.2022.834701

Posner, M.I. & Rothbart M.K. (2022) Genetic and Experiential Factors in Brain Development: The Examples of Executive Attention and Self-regulation

In Olivier Houde & Gregoire Borst (Eds) The Cambridge Handbook of Cognitive Development Ch. 5, 105-121

Rothbart, M.K. & Posner, M.I. (2022) Individual differences in temperament and the efficiency of brain networks. Current Opinion in Behavioral Sciences 43/2 242-248

