

Bruce I. Turetsky, MD

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Department of Psychiatry

Neuropsychiatry Division

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Philadelphia, PA 19104-4283

Education

1968-71 B.A. Queens College, City University of New York (Mathematics)

1974-78 M.A. University of California, Berkeley (Medical Sociology)

1978-82 M.D. University of California, San Francisco

Postgraduate Training and Fellowship Appointments

1982-86 Resident in Psychiatry
University of California, San Francisco

1987-89 Post-Doctoral Scholar, Department of Psychiatry
University of California, San Francisco

1987-90 Research Fellow, Department of Psychiatry
VA Medical Center, San Francisco

1992-93 Fellow, Hartford Foundation Fellowship Program For Research on
Aging
University of Pennsylvania, Philadelphia

Faculty Appointments

1990-91 Assistant Professor of Psychiatry, Department of Psychiatry
Medical College of Pennsylvania, Philadelphia

1991-99 Assistant Professor of Psychiatry, Department of Psychiatry
University of Pennsylvania, Philadelphia

2000- Associate Professor of Psychiatry, Department of Psychiatry
University of Pennsylvania, Philadelphia

Hospital and Administrative Appointments

1990-91 Service Chief, Division of Adult Psychiatry
Medical College of Pennsylvania

1991 Director, Psychiatric Intensive Care Unit
Medical College of Pennsylvania

1991-95 Attending Physician, Schizophrenia Mental Health Clinical
Research Center and Inpatient Unit
Department of Psychiatry, University of Pennsylvania

1993-95 Associate Director, Inpatient Psychiatric Services
Department of Psychiatry, University of Pennsylvania

1993-95 Director, Psychiatric Intensive Care Unit
Department of Psychiatry, University of Pennsylvania

1995- Associate Director, Neuropsychiatry Division
Department of Psychiatry, University of Pennsylvania

Specialty Certification

1989 American Board of Psychiatry and Neurology

Licensure

Pennsylvania MD-045336-E

Awards, Honors and Membership in Honorary Societies

1971 Phi Beta Kappa Honor Society

1971 Summa cum laude graduate and valedictorian

Queens College, City University of New York

1971 Mathematics Achievement Award, Queens College

1974-78 National Institute of Mental Health Traineeship, Social Structure and
Personality

1982 Alpha Omega Alpha Medical Honor Society

Memberships in Professional and Scientific Societies

National Societies

American Psychiatric Association

American Psychiatric Electrophysiology Association

National Scientific Committees

National Institutes of Health Clinical Neuroscience and Biological Psychopathology Review Committee, member 1996-98

National Institutes of Health Brain Disorders and Clinical Neuroscience - 6 Review Committee, member 1998-2000

Editorial Positions

2000- Brain Topography

Consulting Editor

Archives of General Psychiatry

American Journal of Psychiatry

Biological Psychiatry

Schizophrenia Bulletin

Schizophrenia Research

Psychophysiology

Electroencephalography and Clinical Neurophysiology

IEEE Transactions on Biomedical Engineering

Academic Committees

1995 Medical School Admissions Interview Committee

1995-96 Department of Psychiatry Quality Improvement Committee

1997-00 Department of Psychology Pre-Doctoral Thesis Committee

1998 Department of Radiology Faculty Search Committee

2001- Department of Bioengineering Pre-Doctoral Thesis Committee

Major Teaching and Clinical Responsibilities

Clinical Psychiatrist, Neuropsychiatry Clinic and Schizophrenia Center

Attending Psychiatrist, Schizophrenia Inpatient Unit, 1-2 months/year

Psychiatry 200: Psychoses - Clinical Phenomenology and Treatment.

Pharmacology 100: Antipsychotic Medications

Pharmacology 550: Neuroimaging and Schizophrenia

Brain and Behavior: Psychoses and Antipsychotic Agents

Integrated Psychiatry, Neurology and Neurosurgery 200:

Schizophrenia Psychopathology
Mental Status Examination: Small Group Tutorial Leader
Psychiatry Clinical Neuroscience PGY III and PGY IV Seminar series:
Neurobiology of Schizophrenia
Psychiatric Resident PGYII Inpatient Supervision
Psychiatric Resident PGYIII Outpatient Supervision, Neuropsychiatry Clinic
Clinical Case Conferences - Psychiatric Inpatient Unit

Lectures

Mar. 19, 1996 “Evoked Potential Correlates of Verbal Memory Abnormalities in Schizophrenia”, Samuel Sutton Colloquium on Psychopathology and Psychophysiology, New York State Psychiatric Institute, Columbia University

May 30, 1996 “ERPs and Cognitive Deficits in Schizophrenia: P300 Subcomponent Abnormalities”, ICON VI - Sixth International Conference on Cognitive Neuroscience, Asilomar, Pacific Grove, California

July 30, 1997 “Research Advances in Brain Biology and Possible Implications for Clinical Practice”, The 26th Annual Summer Institute on Alcoholism, Drug Abuse and Mental Health, Delaware State Department of Health and Social Services, Newark, Delaware

Nov. 7, 1997 “Recent Neuroimaging Findings Schizophrenia”, Grand Rounds, Delaware State Hospital, Wilmington, DE

July 20, 1998 “Functional Magnetic Resonance Imaging of Sources of the Auditory P300 Event-Related Potential”, Symposium on Multimodal Imaging, EPIC XII, 12th International Conference on Event-Related Potentials of the Brain, Cambridge, Massachusetts

April 14, 1999 “Imagining the neural substrate of olfactory dysfunction in schizophrenia”, NIH Symposium on Advances in Brain Imaging and Electrophysiological Measurement of Human Olfactory Function in Health and Disease, Annual Meeting of the American Chemical Senses Society, Sarasota, Florida

October, 1999 “Functional MRI of the Auditory P300 Deficit in Schizophrenia”, Symposium on Multimodal Imaging and Schizophrenia, Annual Meeting of the Society for Psychophysiological Research, Grenada, Spain

May 11, 2000 “Integrated ERP/fMRI analysis of Deviance Detection in Schizophrenia”, Symposium on New Directions in Electrophysiology Research, Annual Meeting of the Society of Biological Psychiatry, Chicago

January 22, 2001 “On the Trail of a New Scent: Using Olfaction to Investigate the Neurobiology of Schizophrenia”, Grand Rounds, Nathan Kline Institute for Psychiatric Research, Orangeburg, New York.

September 10, 2001 “Information Processing Abnormalities in Schizophrenia: An fMRI Investigation of Deviance Detection”, Functional Imaging Group, Brigham and Women’s Hospital, Harvard University, Boston, Massachusetts.

September 11, 2001 “Using Olfaction to Investigate the Neurobiology of Schizophrenia”, Schizophrenia Research Program, Veterans Administration Hospital, Harvard University, Brockton, Massachusetts.

Organizing Roles in Scientific Meetings

July 19-23, 1998 United States Organizing Committee, EPIC XII, 12th International Conference on Event-Related Potentials of the Brain, Cambridge, Massachusetts

Bibliography

Turetsky B, Raz J, Fein G. Noise power and signal power and their effects on evoked potential estimation. *Electroencephalography and Clinical Neurophysiology* 71:310-318, 1988.

Raz J, Turetsky B, Fein G. Confidence intervals for the signal-to-noise ratio when a signal embedded in noise is observed over repeated trials. *IEEE Transactions on Biomedical Engineering* 35(8): 646-649, 1988.

Fein G, Turetsky B. P300 latency in normal elderly: effects of paradigm and measurement technique. *Electroencephalography and Clinical Neurophysiology* 72:384-394, 1989.

Raz J, Turetsky B, Fein G. Selecting the smoothing parameter for estimation of smoothly changing evoked potential signals. *Biometrics* 45:745-762, 1989.

Turetsky B, Raz J, Fein G. Estimation of trial-to-trial variation in evoked potential signals by smoothing across trials. *Psychophysiology* 26(6):700-712, 1989.

Fein G, Van Dyke C, Davenport L, Turetsky B, Dillon W, Zatz L, Valk P. Preservation of normal cognitive function in elderly subjects with extensive white matter lesions of long duration. *Archives of General Psychiatry* 47:220- 223, 1990.

Biggins C, Turetsky B, Fein G. The cerebral laterality of mental image generation in normal subjects. *Psychophysiology* 27(1):57-67, 1990.

Turetsky B, Fein G. Representation of multichannel evoked potential data using a dipole component model of intracranial generators: Application to the auditory P300. *Electroencephalography and Clinical Neurophysiology* 76:540-556, 1990.

Turetsky B, Fein G. Partitioning of deep vs. superficial intracranial sources using current source densities is not valid. *Brain Topography* 3:373-379, 1991.

Raz J, Turetsky B, Fein G. Frequency domain estimation of the parameters of human brain electrical dipoles. *Journal of the American Statistical Association*, 87:69-77, 1992.

Raz J, Biggins CA, Turetsky B, Fein G. Frequency domain dipole localization: extensions and applications. *IEEE Transactions on Biomedical Engineering*, 40(9):909-918, 1993.

Gur RE, Mozley PD, Shtasel DL, Cannon TD, Gallagher F, Turetsky B, Grossman R, Gur RC. Clinical subtypes of schizophrenia differ in brain and cerebrospinal fluid volume. *American Journal of Psychiatry*, 151(3):343-350, 1994.

Resnick SM, Karp JS, Turetsky B, Gur RE. Comparison of anatomically defined versus physiologically based regional localization: Effects on PET-FDG quantitation. *Journal of Nuclear Medicine*, 34(12):2201-2207, 1994.

Cowell PE, Turetsky B, Gur RC, Grossman R, Shtasel DL, Gur RE. Sex differences in aging of the human frontal and temporal lobes. *Journal of Neuroscience*, 14(8):4748-4755, 1994.

Turetsky B, Cowell PE, Gur RC, Grossman RI, Shtasel DL, Gur RE. Frontal and temporal lobe brain volumes in schizophrenia: Relationship to symptomatology and clinical subtype. *Archives of General Psychiatry*, 52:1061-1070, 1995.

Cowell PE, Kostianovsky DJ, Gur RC, Turetsky BI, Gur RE. Sex differences in neuroanatomical and clinical correlations in schizophrenia. *American Journal of Psychiatry*, 153:799-805, 1996.

Mahr RN, Moberg PJ, Strathdee G, Overhauser J, Kamholz J, Campbell H, Finucane B, Zackai EH, Loevner L, Reber ME, Mozley PD, Brown L, Turetsky BI, Shapiro RM. Neuropsychiatric phenotype of the 18q-syndrome. *American Journal of Medical Genetics: Neuropsychiatric Genetics*, 67:172-178, 1996.

Gur RE, Petty RG, Turetsky BI, Gur RC. Schizophrenia throughout life: Sex differences in severity and profile of symptoms. *Schizophrenia Research*, 21:1-12, 1996.

Moberg PJ, Doty RL, Mahr RN, Meshulam RI, Arnold SE, Turetsky BI, Gur RE. Olfactory identification in elderly schizophrenia and Alzheimer's disease. *Neurobiology of Aging*, 18:163-167, 1997.

Moberg PJ, Doty RL, Turetsky BI, Arnold SE, Mahr RN, Gur RC, Gur RE. Olfactory identification deficits in schizophrenia correlate with duration of illness. *American Journal of Psychiatry*, 154:1016-1018, 1997.

Gur RE, Cowell P, Turetsky BI, Gallacher F, Cannon T, Bilker W, Gur RC. A follow-up magnetic resonance imaging study of schizophrenia: Relationship of neuroanatomical changes to clinical and neurobehavioral measures. *Archives of General Psychiatry*, 55:145-152, 1998.

Turetsky BI, Colbath EA, Gur RE. P300 subcomponent abnormalities in schizophrenia: I. Physiological evidence for gender and subtype specific differences in regional pathology. *Biological Psychiatry*, 43:84-96, 1998.

Turetsky BI, Colbath EA, Gur RE. P300 subcomponent abnormalities in schizophrenia: II. Longitudinal stability and relationship to symptom change. *Biological Psychiatry*, 43:31-39, 1998.

Moberg PJ, Doty RL, Turetsky BI, Arnold SE, Mahr RN, Gur RC, Bilker W, Gur RE. Deterioration of olfactory identification abilities in patients with schizophrenia [letter; reply]. *American Journal of Psychiatry*, 155(10):1463-1464, 1998.

Erwin RJ, Turetsky BI, Moberg PJ, Gur RC, Gur RE. P50 abnormalities in schizophrenia: relationship to clinical and neuropsychological indices of attention. *Schizophrenia Research*, 33:157-167, 1998.

Raz J, Dickerson L, Turetsky BI. A wavelet packet model of evoked potentials. *Brain and Language*, 66:61-88, 1999.

Gur RC, Turetsky BI, Matsui M, Yan MX, Bilker W, Hughett P, Gur RE. Sex differences in brain gray and white matter in healthy young adults: correlations with cognitive performance. *Journal of Neuroscience*, 19:4065-4072, 1999.

Moberg PJ, Agrin RN, Gur RE, Gur RC, Turetsky BI, Doty RL. Olfactory dysfunction in schizophrenia: A qualitative and quantitative review. *Neuropsychopharmacology*, 21:325-340, 1999.

Gur RE, Turetsky BI, Yan MX, Bilker W, Gur RC. Reduced gray matter volume in schizophrenia. *Archives of General Psychiatry*, 56:905-911, 1999.

Turetsky BI, Cannon TD, Gur RE. P300 subcomponent abnormalities in schizophrenia: III. Deficits in unaffected siblings of schizophrenic probands. *Biological Psychiatry*, 47:380-390, 2000.

Turetsky BI, Moberg PJ, Yousem D, Arnold SE, Doty RL, Gur RE. Olfactory bulb volume is reduced in patients with schizophrenia. *American Journal of Psychiatry*, 157:828-830, 2000.

Ragland JD, Gur RC, Lazarev MG, Smith RJ, Schroeder L, Raz J, Turetsky BI, Alavi A, Gur RE. Hemispheric activation of anterior and inferior prefrontal cortex during verbal encoding and recognition: A PET study of healthy volunteers. *Neuroimage*, 11:624-633, 2000.

Gur RC, Alsop D, Glahn D, Petty R, Swanson CL, Maldjian JA, Turetsky BI, Detre JA, Gee J, Gur RE. An fMRI study of sex differences in regional activation to a verbal and a spatial task. *Brain and Language*, 74:157-170, 2000.

Gur RE, Cowell PE, Latshaw A, Turetsky BI, Grossman RI, Arnold SE, Bilker WB, Gur RC. Reduced dorsal and orbital prefrontal gray matter volumes in schizophrenia. *Archives of General Psychiatry*, 57:761-768, 2000.

Gur RE, Turetsky BI, Cowell PE, Finkelman C, Maany V, Grossman RI, Arnold SE, Gur RC. Temporolimbic volume reductions in schizophrenia. *Archives of General Psychiatry*, 57:769-775, 2000.

Matsui M, Gur RC, Turetsky BI, Yan MX, Gur RE. The relation between tendency for psychopathology and reduced frontal brain volume in healthy people. *Neuropsychiatry, Neuropsychology and Behavioral Neurology*, 13:155-162, 2000.

Arnold SE, Han L-Y, Moberg PJ, Turetsky BI, Gur RE, Trojanowski JQ, Hahn C-G. Dysregulation of olfactory receptor neuron lineage in schizophrenia. *Archives of General Psychiatry*, 58(9): 829-835, 2001.

Raz J, Turetsky BI, Dickerson L. Inference for a random wavelet packet model of single channel event-related potentials. *Journal of the American Statistical Association*, 96:409-420, 2001.

Turetsky BI, Fein G. ?2-noradrenergic effects on ERP and behavioral indices of auditory information processing. *Psychophysiology*, 39:147-157, 2002.

Gur RC, Gunning-Dixon FM, Turetsky BI, Bilker WB, Gur RE. Regional and sex differences in age association with brain volume: A quantitative MRI study of healthy young and middle-age adults. *American Journal of Geriatric Psychiatry*, in press.

Gur RC, Schroeder L, Turner T, McGrath C, Chan RM, Turetsky BI, Alsop D, Maldjian J, Gur RE. Brain activation during facial emotion processing. *Neuroimage*, in press.

Ragland JD, Turetsky BI, Gur RC, Gunning-Dixon F, Turner T, Schroeder L, Chan R, Gur RE. Working memory for complex figures: An fMRI comparison of letter and fractal n-back tasks. *Neuropsychology*, in press.

Gur RE, McGrath C, Chan RM, Schroeder L, Turner T, Turetsky BI, Kohler C, Alsop D, Maldjian J, Ragland JD, Gur RC. An fMRI study of facial emotion processing in schizophrenia. *American Journal of Psychiatry*, in press.

Turetsky BI, Moberg PJ, Mozley LH, Moelter ST, Agrin R, Gur RC, Gur RE. Memory-delineated subtypes of schizophrenia: Relationship to clinical, neuroanatomical and physiological measures. *Neuropsychology*, in press.

Duwe BV, Turetsky BI. Case report: Misdiagnosis of schizophrenia in a patient with psychotic symptoms. Submitted manuscript.

Turetsky BI, Moberg PJ, Arnold SA, Doty RL, Gur RE. Reduced olfactory bulb volume in 1st-degree relatives of patients with schizophrenia. Submitted manuscript.

Siegel SJ, Connolly P, Liang Y, Lenox RH, Gur RE, Bilker W, Kaner SJ, Turetsky BI. The effect of strain, novelty and NMDA blockade on auditory evoked potentials in mice. Submitted manuscript.

Moberg PJ, Doty RL, McKeown BA, Turetsky BI, Gur RE, Gur RC. Olfactory functioning in schizophrenia: Relationship to clinical, neuropsychological, and MRI volumetric measures. Submitted manuscript.

Charbonnier DR, Nienow TM, Turetsky BI. Global vs local processing: Electrophysiologic evidence for gender differences and hemispheric specialization in healthy adults. Submitted manuscript.

Charbonnier DR, Nienow TM, Gur RE, Turetsky BI. Event-related potential correlates of global vs local processing: Implications for schizophrenia. Submitted manuscript.

Raz J, Turetsky BI, Noll D, and Zheng H. Linear models for event-related fMRI time series with overlapping responses. Submitted manuscript.

Raz J, Zheng H, Turetsky B. Statistical tests for fMRI based on experimental randomization. Submitted manuscript.

Abstracts

Moberg PJ, Turetsky BI, Doty RL, McKeown D, Gur RC, Gur RE. Unilateral olfactory functioning in patients with schizophrenia. International Congress on Schizophrenia Research, Colorado Springs, 1997.

Swanson CL, Turetsky BI, Bilker W, Gur RC, Gur RE. Rater gender and symptom ratings of patients with schizophrenia. International Congress on Schizophrenia Research, Colorado Springs, 1997.

Swanson CL, Moberg PJ, Turetsky BI, Mozley PD, Nienow TM, Doty RL, Gur RC, Gur RE. Effects of acute administration of haloperidol and methylphenidate on olfactory performance. ISOT XII/ACChemS XIX, San Diego, 1997.

Moberg PJ, Turetsky BI, Doty RL, McKeown D, Gur RC, Gur RE. Unilateral olfactory functioning in patients with schizophrenia: Relationship to clinical and MRI indices. ISOT XII/ACChemS XIX, San Diego, 1997.

Mozley PD, Gur RC, Swanson CL, Turetsky BI, Gur RE, Nienow TM, Alavi A. [Tc-99m] SPECT demonstrates that dopaminergic drugs affect cerebral blood flow in healthy human volunteers. Society of Nuclear Medicine Annual Meeting, San Antonio, 1997.

Turetsky BI, Alsop D, Gur RE. Functional magnetic resonance imaging of the sources of the auditory P300. American College of Neuropsychopharmacology Annual Meeting, Kamuela, Hawaii, 1997.

Turetsky BI, Moberg PJ, Mozley LH, Agrin R, Gur RC, Gur RE. CVLT memory subtypes in schizophrenia: Relationship to clinical, neuroanatomic and physiologic measures. International Neuropsychological Society Annual Meeting, Honolulu, 1998.

Moberg PJ, Agrin R, Gur RE, Gur RC, Turetsky BI, Doty RL. Olfactory dysfunction in schizophrenia: A qualitative and quantitative review. International Neuropsychological Society Annual Meeting, Honolulu, 1998.

Huang SY, Raz J, Turetsky BI. Wavelet packet decomposition of multivariate event-related potential time series. International Biometric Society, ENAR Annual Meeting, Pittsburgh, 1998.

Liu C, Raz J, Turetsky BI. An estimator and permutation test for single-trial fMRI data. International Biometric Society, ENAR Annual Meeting, Pittsburgh, 1998.

Charbonnier DR, Turetsky BI, Nienow TM, Gur RE. ERP correlates of global versus local processing in schizophrenia. Society for Biological Psychiatry Annual Meeting, Toronto, 1998.

Turetsky BI, Nienow TM, Gur RE. Lateralized P300 responses to novel stimuli in patients with schizophrenia. Society for Biological Psychiatry Annual Meeting, Toronto, 1998.

Turetsky BI, Nienow TM, Gur RE. ERP correlates of verbal learning and memory processes schizophrenia. Society for Biological Psychiatry Annual Meeting, Toronto, 1998.

Swanson CL, Turetsky BI, Gur RC, Gur RE. Neurocognitive correlates of speech disorder in schizophrenia. Society for Biological Psychiatry Annual Meeting, Toronto, 1998.

Lazarev MG, Ragland JD, Gur RC, Bilker WB, Turetsky BI, Swanson CL, Alavi A, Gur RE. Correlations between frontal and temporal lobe brain and CSF volume with resting glucose metabolism in patients with schizophrenia. Society of Nuclear Medicine Annual Meeting, Toronto 1998.

Raz J, Turetsky BI, Liu C. Statistical analysis of functional magnetic resonance images acquired using the auditory P300 paradigm. International Human Brain Mapping Meeting, Montreal 1998.

Raz J, Huang, S-Y, Turetsky BI. A wavelet packet model of multi-channel event-related potentials. Workshop on Statistics of Brain Mapping, University of Montreal, June 1998.

Charbonnier DR, Turetsky BI, Nienow TM, Gur RE. ERP correlates of global vs local processing in healthy adults. The 12th International Conference on Event-Related Potentials of the Brain, Cambridge, 1998.

Erwin RJ, Turetsky BI, Gur RE. Topographic analysis of P50: A comparison of recovery protocols in schizophrenia. The 12th International Conference on Event-Related Potentials of the Brain, Cambridge, 1998.

Gur RC, Gur RE, Moberg PJ, Ragland JR, Turetsky BI. Sex differences in healthy aging: Linking anatomy, neurocognition and physiology. American College of Neuropsychopharmacology Annual Meeting, Las Croabas, Puerto Rico, 1998.

Moberg PJ, Turetsky BI, Gur RC, Doty RL, Gur RE. Olfactory dysfunction in schizophrenia: Neurodevelopmental or neurodegenerative? American College of Neuropsychopharmacology Annual Meeting, Las Croabas, Puerto Rico, 1998.

Gur RE, Ragland JD, Turetsky BI, Gur RC. Sex differences in temporal-limbic function in schizophrenia: Relation of memory to structural and functional measures. International Congress on Schizophrenia Research, Santa Fe, 1999.

Lazarev M, Ragland JD, Gur RC, Bilker WB, Turetsky BI, Swanson CL, Gur RE. Correlations between frontal and temporal lobe brain and CSF volume with resting glucose metabolism. International Congress on Schizophrenia Research, Santa Fe, 1999.

Turetsky BI, Charbonnier DR, Raz J, Alsop D, Gur RE. Functional mri of the auditory P300 deficit in schizophrenia. International Congress on Schizophrenia Research, Santa Fe, 1999.

Turetsky BI, Moberg PJ, Doty RL, Yousem D, Gur RE. Physiologic and structural assessment of olfactory dysfunction in schizophrenia. International Congress on Schizophrenia Research, Santa Fe, 1999.

Erwin RJ, Turetsky BI, Gur RE. Dissociation of temporal and spatial P50 subcomponent abnormalities in schizophrenia. International Congress on Schizophrenia Research, Santa Fe, 1999.

Raz J, Turetsky BI, Vadikovic, B. Wavelet ANOVA . Meeting of the American Statistical Association, Princeton-Trenton Chapter, 1999.

Turetsky BI, Moberg PJ, Gur RE. Using olfaction to probe temporolimbic dysfunction in schizophrenia. Workshop on Temporolimbic Function in Schizophrenia: An Integrative Approach From Behavior to the Molecule. Society for Biological Psychiatry Annual Meeting, Washington D.C., 1999.

Raz J, Turetsky BI, Noll D, Zheng H. Linear models for event-related fMRI time series with overlapping responses. Joint Statistical Meeting, Baltimore, 1999.

Turetsky BI, Raz J, Alsop D, Charbonnier D, Schroeder L, Gur RE. Integrated ERP/fMRI analysis of deviance processing in schizophrenia. Society for Biological Psychiatry Annual Meeting, Chicago, 2000.

Imig JC, Erwin RJ, Turetsky BI. Gender differences in emotional recognition and hemispheric asymmetry. Society for Biological Psychiatry Annual Meeting, Chicago, 2000.

Moberg PJ, Turetsky BI, Lourea B, Doty RL, Gur RC, Gur RE. Impairment of odor hedonics in patients with schizophrenia. International Congress on Schizophrenia Research, Whistler, British Columbia, 2001.

Turetsky BI, Moberg PJ, Charbonnier D, Doty RL, Gur RE. Event-related potential probes of neuronal activity in the olfactory system in schizophrenia. International Congress on Schizophrenia Research, Whistler, British Columbia, 2001.

Siegel SJ, Lenox RH, Gur RE, Kaness SJ, Turetsky BI. Sensory gating and novelty detection in schizophrenia and a mouse model of information processing deficits. Society for Neuroscience Annual Meeting, San Diego, 2001.

Siegel SJ, Connolly P, Liang Y, Lenox RH, Gur RE, Turetsky BI. Mismatch negativity and P20/N40 gating in mice. American College of Neuropsychopharmacology Annual Meeting, Kona Hawaii, 2001.

Editorials, Reviews, Chapters

Fein G, Turetsky B, Ezekiel F. Controlled stimulus presentation and data acquisition in evoked potential and cognitive psychology experiments. In: ASYST 88 International Conference Proceedings pp.9-17. ASYST Software Technologies, Rochester 1989.

Fein G, Raz J, Turetsky B. Brain electrical activity: The promise of new technologies. In S. Zakhari and E. Witt (Eds.) *Imaging in Alcohol Research, Research Monograph No.21*, pp.49-78. National Institute on Alcohol Abuse and Alcoholism, Rockville, MD. 1992.

Raz J, Turetsky B. Wavelet models of event-related potentials. In A. Aldroubi and M. Unser (Eds.) *Wavelets in Biology and Medicine*, pp. 571-587. Boca Raton: CRC Press, 1995.

Raz J, Turetsky B. Event-related potentials. In P. Armitage and T. Colton (Eds.) *Encyclopedia of Biostatistics, Vol. 2*, pp.1407-1409. Chichester: John Wiley & Sons, 1998.

Raz J, Turetsky B. Wavelet ANOVA and fMRI. In *Proceedings of SPIE: Wavelet Applications in Signal and Image Processing VII*, 3813, 561-570, 1999.

Greene G, Kohler C, Turetsky BI. Laboratory Safety. In J.T. Cacioppo, L.G. Tassinari and G.G. Berntson (Eds.) *Handbook of Psychophysiology, 2nd ed.*, pp. 951-977. Cambridge University Press, 2000.

Gee JC, Fabella BA, Fernandes SE, Turetsky BI, Gur RC, Gur RE. New experimental results in atlas-based morphometry. In K.M. Hanson (Ed.) *Medical Imaging: Image processing*. Bellingham:SPIE, 1999.