

Walton T. Roth

Professor of Psychiatry & Behavioral Sciences, Emeritus
Psychiatry and Behavioral Sciences

Bio

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Psychiatry and Behavioral Sciences

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Laboratory and ambulatory recording of physiological, responses to stressors in anxious and phobic patients.

CLINICAL TRIALS

- Breathing Regulation Training for Individuals With Panic Disorder, Not Recruiting
- Respiratory Dysregulation and Breathing Training in Anxious Outpatients, Not Recruiting

Publications

PUBLICATIONS

- **Randomized Clinical Trial of Capnometry-Assisted Respiratory Training in Veterans With Posttraumatic Stress Disorder Hyperarousal** *PSYCHOLOGICAL TRAUMA-THEORY RESEARCH PRACTICE AND POLICY*
Jamison, A. L., Slightam, C., Bertram, F., Kim, S., Roth, W. T.
2022; 14 (5): 883-893
- **Habituation or Normalization? Experiential and Respiratory Recovery From Voluntary Hyperventilation in Treated Versus Untreated Patients With Panic Disorder.** *Behavior therapy*
Tunnell, N. C., Ritz, T. n., Wilhelm, F. H., Roth, W. T., Meuret, A. E.
2021; 52 (1): 124–35
- **MMR Vaccination: A Potential Strategy to Reduce Severity and Mortality of COVID-19 Illness.** *The American journal of medicine*
Ashford, J. W., Gold, J. E., Huenergardt, M. A., Katz, R. B., Strand, S. E., Bolanos, J., Wheeler, C. J., Perry, G., Smith, C. J., Steinman, L., Chen, M. Y., Wang, J. C., Ashford, et al
2020
- **Supplementing sleep actigraphy with button pressing while awake** *PLOS ONE*
Keller, M., Roth, W. T., Petrowski, K.
2020; 15 (6)
- **Supplementing sleep actigraphy with button pressing while awake.** *PloS one*
Keller, M. n., Roth, W. T., Petrowski, K. n.
2020; 15 (6): e0234060
- **Effects of psychosocial and physical stress on lactate and anxiety levels.** *Stress (Amsterdam, Netherlands)*
Hermann, R., Lay, D., Wahl, P., Roth, W. T., Petrowski, K.
2019: 1–6

- **Effects of psychosocial and physical stress on lactate and anxiety levels** *STRESS-THE INTERNATIONAL JOURNAL ON THE BIOLOGY OF STRESS*
Hermann, R., Lay, D., Wahl, P., Roth, W. T., Petrowski, K.
2019
- **Assessing sleep quality using self-report and actigraphy in PTSD** *JOURNAL OF SLEEP RESEARCH*
Slightam, C., Petrowski, K., Jamison, A. L., Keller, M., Bertram, F., Kim, S., Roth, W. T.
2018; 27 (3): e12632
- **Hypoventilation Therapy Alleviates Panic by Repeated Induction of Dyspnea.** *Biological psychiatry. Cognitive neuroscience and neuroimaging*
Meuret, A. E., Ritz, T., Wilhelm, F. H., Roth, W. T., Rosenfield, D.
2018; 3 (6): 539-545
- **Motivation to Participate in PTSD Research.** *JAMA*
Roth, W. T., Hofmann, S. G.
2018; 319 (23): 2439-40
- **Effects of therapeutic relationship, expectancy, and credibility in breathing therapies for anxiety** *BULLETIN OF THE MENNINGER CLINIC*
Kim, S., Roth, W. T., Wollburg, E.
2015; 79 (2): 116-130
- **Autonomic Arousal During Actigraphically Estimated Waking and Sleep in Male Veterans With PTSD** *JOURNAL OF TRAUMATIC STRESS*
Bertram, F., Jamison, A. L., Slightam, C., Kim, S., Roth, H. L., Roth, W. T.
2014; 27 (5): 610-617
- **Psychiatry on Trial The Norway 2011 Massacre** *JOURNAL OF NERVOUS AND MENTAL DISEASE*
Roth, W. T., Dager, S. R.
2014; 202 (3): 181-185
- **Experiential, autonomic, and respiratory correlates of CO2 reactivity in individuals with high and low anxiety sensitivity** *PSYCHIATRY RESEARCH*
Blechert, J., Wilhelm, F. H., Meuret, A. E., Wilhelm, E. M., Roth, W. T.
2013; 209 (3): 566-573
- **Worried sleep: 24-h monitoring in high and low worriers** *BIOLOGICAL PSYCHOLOGY*
Weise, S., Ong, J., Tesler, N. A., Kim, S., Roth, W. T.
2013; 94 (1): 61-70
- **Airway constriction in asthma during sustained emotional stimulation with films** *BIOLOGICAL PSYCHOLOGY*
Ritz, T., Rosenfield, D., Wilhelm, F. H., Roth, W. T.
2012; 91 (1): 8-16
- **Opposing Breathing Therapies for Panic Disorder: A Randomized Controlled Trial of Lowering vs Raising End-Tidal PCO2** *JOURNAL OF CLINICAL PSYCHIATRY*
Kim, S., Wollburg, E., Roth, W. T.
2012; 73 (7): 931-939
- **Separation anxiety disorder in children: disorder-specific responses to experimental separation from the mother** *JOURNAL OF CHILD PSYCHOLOGY AND PSYCHIATRY*
Kossowsky, J., Wilhelm, F. H., Roth, W. T., Schneider, S.
2012; 53 (2): 178-187
- **SPR Award, 2010. For distinguished contributions to psychophysiology: Judith M. Ford.** *Psychophysiology*
Roth, W. T.
2012; 49 (2): 151-3
- **Do Unexpected Panic Attacks Occur Spontaneously?** *BIOLOGICAL PSYCHIATRY*
Meuret, A. E., Rosenfield, D., Wilhelm, F. H., Zhou, E., Conrad, A., Ritz, T., Roth, W. T.
2011; 70 (10): 985-991

- **An affective computing approach to physiological emotion specificity: Toward subject-independent and stimulus-independent classification of film-induced emotions** *PSYCHOPHYSIOLOGY*
Kolodyazhnyi, V., Kreibig, S. D., Gross, J. J., Roth, W. T., Wilhelm, F. H.
2011; 48 (7): 908-922
- **Effects of Breathing Training on Voluntary Hypo- and Hyperventilation in Patients with Panic Disorder and Episodic Anxiety** *APPLIED PSYCHOPHYSIOLOGY AND BIOFEEDBACK*
Wollburg, E., Roth, W. T., Kim, S.
2011; 36 (2): 81-91
- **Methodological considerations in ambulatory skin conductance monitoring** *INTERNATIONAL JOURNAL OF PSYCHOPHYSIOLOGY*
Doberenz, S., Roth, W. T., Wollburg, E., Maslowski, N. I., Kim, S.
2011; 80 (2): 87-95
- **Affective modulation of the acoustic startle: Does sadness engage the defensive system?** *BIOLOGICAL PSYCHOLOGY*
Kreibig, S. D., Wilhelm, F. H., Roth, W. T., Gross, J. J.
2011; 87 (1): 161-163
- **Cardio-respiratory instabilities precede the onset of naturally occurring panic attacks** *17th Annual Meeting of the International-Society-for-the-Advancement-of-Respiratory-Psychophysiology*
Meuret, A. E., Rosenfield, D., Zhou, E., Conrad, A., Wilhelm, F. H., Roth, W. T.
ELSEVIER SCIENCE BV.2011: 173-74
- **Airway response to emotion- and disease-specific films in asthma, blood phobia, and health** *PSYCHOPHYSIOLOGY*
Ritz, T., Wilhelm, F. H., Meuret, A. E., Gerlach, A. L., Roth, W. T.
2011; 48 (1): 121-135
- **Twenty-four hour skin conductance in panic disorder** *JOURNAL OF PSYCHIATRIC RESEARCH*
Doberenz, S., Roth, W. T., Wollburg, E., Breuning, C., Kim, S.
2010; 44 (16): 1137-1147
- **Temporal stability and coherence of anxiety, dyspnea, and physiological variables in panic disorder** *BIOLOGICAL PSYCHOLOGY*
Burkhardt, S. C., Wilhelm, F. H., Meuret, A. E., Blechert, J., Roth, W. T.
2010; 85 (2): 226-232
- **Respiratory, autonomic, and experiential responses to repeated inhalations of 20% CO2 enriched air in panic disorder, social phobia, and healthy controls** *BIOLOGICAL PSYCHOLOGY*
Blechert, J., Wilhelm, F. H., Meuret, A. E., Wilhelm, E. M., Roth, W. T.
2010; 84 (1): 104-111
- **Psychophysiological Characteristics of Women Suffering from Stress-Related Fatigue** *STRESS AND HEALTH*
Olsson, E. M., Roth, W. T., Melin, L.
2010; 26 (2): 113-126
- **Change point analysis for longitudinal physiological data: Detection of cardio-respiratory changes preceding panic attacks** *BIOLOGICAL PSYCHOLOGY*
Rosenfield, D., Zhou, E., Wilhelm, F. H., Conrad, A., Roth, W. T., Meuret, A. E.
2010; 84 (1): 112-120
- **DIVERSITY OF EFFECTIVE TREATMENTS OF PANIC ATTACKS: WHAT DO THEY HAVE IN COMMON?** *DEPRESSION AND ANXIETY*
Roth, W. T.
2010; 27 (1): 5-11
- **Does improving mood in depressed patients alter factors that may affect cardiovascular disease risk?** *JOURNAL OF PSYCHIATRIC RESEARCH*
Taylor, C. B., Conrad, A., Wilhelm, F. H., Strachowski, D., Khaylis, A., Neri, E., Giese-Davis, J., Roth, W. T., Cooke, J. P., Kraemer, H., Spiegel, D.
2009; 43 (16): 1246-1252
- **Changes in respiration mediate changes in fear of bodily sensations in panic disorder** *JOURNAL OF PSYCHIATRIC RESEARCH*
Meuret, A. E., Rosenfield, D., Hofmann, S. G., Suvak, M. K., Roth, W. T.

2009; 43 (6): 634-641

- **Changes in pCO₂, Symptoms, and Lung Function of Asthma Patients During Capnometry-assisted Breathing Training** *APPLIED PSYCHOPHYSIOLOGY AND BIOFEEDBACK*
Ritz, T., Meuret, A. E., Wilhelm, F. H., Roth, W. T.
2009; 34 (1): 1-6
- **End-tidal versus transcutaneous measurement of PCO₂ during voluntary hypo- and hyperventilation** *INTERNATIONAL JOURNAL OF PSYCHOPHYSIOLOGY*
Wollburg, E., Roth, W. T., Kim, S.
2009; 71 (2): 103-108
- **Do blood phobia patients hyperventilate during exposure by breathing faster, deeper, or both?** *Depression and anxiety*
Ritz, T., Wilhelm, F. H., Meuret, A. E., Gerlach, A. L., Roth, W. T.
2009; 26 (2): E60-7
- **Circadian affective, cardiopulmonary, and cortisol variability in depressed and nondepressed individuals at risk for cardiovascular disease** *JOURNAL OF PSYCHIATRIC RESEARCH*
Conrad, A., Wilhelm, F. H., Roth, W. T., Spiegel, D., Taylor, C. B.
2008; 42 (9): 769-777
- **Translational research for panic disorder** *AMERICAN JOURNAL OF PSYCHIATRY*
Roth, W. T.
2008; 165 (7): 796-798
- **Psychophysiological reactions to two levels of voluntary hyperventilation in panic disorder** *JOURNAL OF ANXIETY DISORDERS*
Wollburg, E., Meuret, A. E., Conrad, A., Roth, W. T., Kim, S.
2008; 22 (5): 886-898
- **A discrete or dimensional affective landscape? Evidence for emotion discreteness from a multiple-response-levels analysis of film-induced fear and sadness**
Kreibig, S. D., Wilhelm, F. H., Roth, W. T., Gross, J. J.
PSYCHOLOGY PRESS.2008: 203-
- **Feedback of end-tidal pCO₂ as a therapeutic approach for panic disorder** *JOURNAL OF PSYCHIATRIC RESEARCH*
Meuret, A. E., Wilhelm, F. H., Ritz, T., Roth, W. T.
2008; 42 (7): 560-568
- **The psychophysiology of generalized anxiety disorder: 2. Effects of applied relaxation** *PSYCHOPHYSIOLOGY*
Conrad, A., Isaac, L., Roth, W. T.
2008; 45 (3): 377-388
- **The psychophysiology of generalized anxiety disorder: 1. Pretreatment characteristics** *PSYCHOPHYSIOLOGY*
Conrad, A., Isaac, L., Roth, W. T.
2008; 45 (3): 366-376
- **Sympathetic activation in broadly defined generalized anxiety disorder** *JOURNAL OF PSYCHIATRIC RESEARCH*
Roth, W. T., Doberenz, S., Dietel, A., Conrad, A., Mueller, A., Wollburg, E., Meuret, A. E., Taylor, C. B., Kim, S.
2008; 42 (3): 205-212
- **Cardiovascular, electrodermal, and respiratory response patterns to fear- and sadness-inducing films** *12th Annual Meeting of the Society-for-Psychophysiological-Research*
Kreibig, S. D., Wilhelm, F. H., Roth, W. T., Gross, J. J.
WILEY-BLACKWELL.2007: 787-806
- **Psychophysiological effects of breathing instructions for stress management** *APPLIED PSYCHOPHYSIOLOGY AND BIOFEEDBACK*
Conrad, A., Mueller, A., Doberenz, S., Kim, S., Meuret, A. E., Wollburg, E., Roth, W. T.
2007; 32 (2): 89-98
- **Targeting pCO₂ in asthma: Pilot evaluation of a capnometry-assisted breathing training** *APPLIED PSYCHOPHYSIOLOGY AND BIOFEEDBACK*

- Meuret, A. E., Ritz, T., Wilhelm, F. H., Roth, W. T.
2007; 32 (2): 99-109
- **Psychophysiological responses to breathing instructions** *12th Annual Meeting of the International-Society-for-the-Advancement-of-Respiratory-Psychophysiology*
Mueller, A., Roth, W. T., Conrad, A., Doberenz, S., Kim, S., Meuret, A. E.
ELSEVIER SCIENCE BV.2007: 209–
 - **Clinical anxiety and respiration: Palo Alto studies in progress** *12th Annual Meeting of the International-Society-for-the-Advancement-of-Respiratory-Psychophysiology*
Roth, W. T., Kim, S., Wollburg, E., Conrad, A., Doberenz, S., Mueller, A., Meuret, A. E.
ELSEVIER SCIENCE BV.2007: 212–12
 - **Physiological evaluation of psychological treatments for anxiety.** *Expert review of neurotherapeutics*
Wollburg, E., Kim, S., Conrad, A., Roth, W. T.
2007; 7 (2): 129-141
 - **Muscle relaxation therapy for anxiety disorders: It works but how?** *JOURNAL OF ANXIETY DISORDERS*
Conrad, A., Roth, W. T.
2007; 21 (3): 243-264
 - **Are the psychophysiological responses to voluntary hyperventilation diagnostically specific to panic disorder?**
Wollburg, E., Roth, W. T., Conrad, A., Mueller, A., Doberenz, S., Meuret, A. E., Kim, S.
WILEY-LISS.2007: 371–73
 - **The psychophysiology of fear and sadness: Cardiovascular, electrodermal, and respiratory responses during film viewing** *47th Annual Meeting of the Society-for-Psychophysiological-Research*
Kreibig, S. D., Wilhelm, F. H., Gross, J. J., Roth, W. T.
WILEY-BLACKWELL.2007: S20–S20
 - **The Driving Cognitions Questionnaire: Development and preliminary psychometric properties** *JOURNAL OF ANXIETY DISORDERS*
Ehlers, A., Taylor, J. E., Ehring, T., Hofmann, S. G., Deane, F. P., Roth, W. T., Podd, J. V.
2007; 21 (4): 493-509
 - **Affective computing: uSing computational intelligence techniques to classify the psychophysiological signatures of fearful, sad, and calm affective states** *47th Annual Meeting of the Society-for-Psychophysiological-Research*
Wilhelm, F. H., Kolodyazhnyi, V., Kreibig, S. D., Roth, W. T., Gross, J. J.
WILEY-BLACKWELL.2007: S110–S111
 - **Panic attack symptom dimensions and their relationship to illness characteristics in panic disorder** *JOURNAL OF PSYCHIATRIC RESEARCH*
Meuret, A. E., White, K. S., Ritz, T., Roth, W. T., Hofmann, S. G., Brown, T. A.
2006; 40 (6): 520-527
 - **Psychophysiological and cortisol responses to psychological stress in depressed and nondepressed older men and women with elevated cardiovascular disease risk** *PSYCHOSOMATIC MEDICINE*
Taylor, C. B., Conrad, A., Wilhelm, F. H., Neri, E., DeLorenzo, A., Kramer, M. A., Giese-Davis, J., Roth, W. T., Oka, R., Cooke, J. P., Kraemer, H., Spiegel, D.
2006; 68 (4): 538-546
 - **Differential effects of film-induced fear and sadness on acoustic startle** *46th Annual Meeting of the Society-for-Psychophysiological-Research*
Kreibig, S. D., Wilhelm, F. H., Roth, W. T., Gross, J. J.
WILEY-BLACKWELL PUBLISHING, INC.2006: S54–S54
 - **Distinguishing emotional from physical activation in ambulatory psychophysiological monitoring** *BIOMEDICAL SCIENCES INSTRUMENTATION, VOL 42*
Wilhelm, F. H., Pfaltz, M. C., Grossman, P., Roth, W. T.
2006; 42: 458-463
 - **Physiological markers for anxiety: Panic disorder and phobias** *12th World Congress of Psychophysiology of the International-Organization-of-Psychophysiology*

- Roth, W. T.
ELSEVIER SCIENCE BV.2005: 190–98
- **End-tidal pCO(2) in blood phobics during viewing of emotion- and disease-related films** *PSYCHOSOMATIC MEDICINE*
Ritz, T., Wilhelm, F. H., Gerlach, A. L., Kullowatz, A., Roth, W. T.
2005; 67 (4): 661-668
 - **Voluntary hyperventilation in the treatment of panic disorder - functions of hyperventilation, their implications for breathing training, and recommendations for standardization** *CLINICAL PSYCHOLOGY REVIEW*
Meuret, A. E., Ritz, T., Wilhelm, F. H., Roth, W. T.
2005; 25 (3): 285-306
 - **Are current theories of panic falsifiable?** *PSYCHOLOGICAL BULLETIN*
Roth, W. T., Wilhelm, F. H., Pettit, D.
2005; 131 (2): 171-192
 - **Psychophysiological assessment during exposure in driving phobic patients** *JOURNAL OF ABNORMAL PSYCHOLOGY*
Alpers, G. W., Wilhelm, F. H., Roth, W. T.
2005; 114 (1): 126-139
 - **Standardized assessment of diurnal vagal activity in depressed patients with risk for coronary artery disease: accounting for physical activity, respiration, and mood variability** *10th Annual Meeting of the International-Society-for-the-Advancement-of-Respiratory-Psychophysiology*
Wilhelm, F. H., Conrad, A., Luce, K. H., Celio, C. L., DeLorenzo, A., Roth, W. T., Grossman, P., Taylor, C. B.
ELSEVIER SCIENCE BV.2004: 410–10
 - **Behavioral interventions in asthma biofeedback techniques** *JOURNAL OF PSYCHOSOMATIC RESEARCH*
Ritz, T., Dahme, B., Roth, W. T.
2004; 56 (6): 711-720
 - **Deficient response modulation of event-related brain potentials in schizophrenia** *CURRENT OPINION IN PSYCHIATRY*
Ford, J. M., Roth, W. T.
2004; 17 (2): 91-96
 - **Respiratory feedback for treating panic disorder** *JOURNAL OF CLINICAL PSYCHOLOGY*
Meuret, A. E., Wilhelm, F. H., Roth, W. T.
2004; 60 (2): 197-207
 - **Circadian positive and negative affect and heart rate variability in depressed and nondepressed individuals at risk for cardiovascular disease**
Wilhelm, F. H., Grossman, P., Conrad, A., Luce, K. H., Roth, W. T., Taylor, C. B.
HOGREFE & HUBER PUBLISHERS.2004: 227–27
 - **Situational and individual response specificity to emotion films: Effects on experiential, cardiovascular, electrodermal, respiratory and somatic responses** *44th Annual Meeting of the Society-for-Psychophysiological-Research*
Kreibig, S. D., Wilhelm, F. H., Gross, J. J., Ferst, R., Roth, W. T.
WILEY-BLACKWELL.2004: S75–S75
 - **The LifeShirt - An advanced system for ambulatory measurement of respiratory and cardiac function** *BEHAVIOR MODIFICATION*
Wilhelm, F. H., Roth, W. T., Sackner, M. A.
2003; 27 (5): 671-691
 - **Behavioral interventions in asthma - Breathing training** *BEHAVIOR MODIFICATION*
Ritz, T., Roth, W. T.
2003; 27 (5): 710-730
 - **Breathing training for treating panic disorder - Useful intervention or impediment?** *BEHAVIOR MODIFICATION*
Meuret, A. E., Wilhelm, F. H., Ritz, T., Roth, W. T.
2003; 27 (5): 731-754
 - **Salivary cortisol response during exposure treatment in driving phobics** *PSYCHOSOMATIC MEDICINE*
Alpers, G. W., Abelson, J. L., Wilhelm, F. H., Roth, W. T.

2003; 65 (4): 679-687

- **Predictors of response in anxiety disorders** *PSYCHIATRIC CLINICS OF NORTH AMERICA*
Solvason, H. B., ERNST, H., Roth, W.
2003; 26 (2): 411-?
- **A new technology for 24-h assessment of RSA with control for respiratory and physical activity variation**
Wilhelm, F. H., Grossman, P., Meuret, A. E., Taylor, C. B., Roth, W. T.
ELSEVIER SCIENCE BV.2003: 241-42
- **Detection of speaking with a new respiratory inductive plethysmography system** *40th Annual Rocky Mountain Bioengineering Symposium/40th International ISA Biomedical Sciences Instrumentation Symposium*
Wilhelm, F. H., Handke, E. M., Roth, W. T.
INSTRUMENT SOC AMER.2003: 136-141
- **Selective attention in piety: Distraction and enhancement in visual search** *DEPRESSION AND ANXIETY*
Rinck, M., Becker, E. S., Kellermann, J., Roth, W. T.
2003; 18 (1): 18-28
- **Embarrassment and social phobia: the role of parasympathetic activation** *JOURNAL OF ANXIETY DISORDERS*
Gerlach, A. L., Wilhelm, F. H., Roth, W. T.
2003; 17 (2): 197-210
- **A NARRATIVE EXPOSURE TREATMENT AS INTERVENTION IN A REFUGEE CAMP: A CASE REPORT** *BEHAVIOURAL AND COGNITIVE PSYCHOTHERAPY*
Neuner, F., Schauer, M., Roth, W. T., Elbert, T.
2002; 30 (2): 205-209
- **Reduced communication between frontal and temporal lobes during talking in schizophrenia** *BIOLOGICAL PSYCHIATRY*
Ford, J. M., Mathalon, D. H., Whitfield, S., Faustman, W. O., Roth, W. T.
2002; 51 (6): 485-492
- **High altitudes, anxiety, and panic attacks: Is there a relationship?** *DEPRESSION AND ANXIETY*
Roth, W. T., Gomolla, A., Meuret, A. E., Alpers, G. W., Handke, E. M., Wilhelm, F. H.
2002; 16 (2): 51-58
- **The lifeshirt system: A new technology for 24-hr assessment of RSA with control for respiratory and physical activity variation**
Wilhelm, F. H., Grossman, P., Taylor, C. B., Roth, W. T.
BLACKWELL PUBLISHING.2002: S87-S87
- **Neurophysiological evidence of corollary discharge dysfunction in schizophrenia** *AMERICAN JOURNAL OF PSYCHIATRY*
Ford, J. M., Mathalon, D. H., Heinks, T., Kalba, S., Faustman, W. O., Roth, W. T.
2001; 158 (12): 2069-2071
- **Social anxiety and response to touch: incongruence between self-evaluative and physiological reactions** *40th Annual Meeting of the Society-for-Psychophysiological-Research*
Wilhelm, F. H., Kochar, A. S., Roth, W. T., Gross, J. J.
ELSEVIER SCIENCE BV.2001: 181-202
- **Cortical responsiveness during inner speech in schizophrenia: An event-related potential study** *AMERICAN JOURNAL OF PSYCHIATRY*
Ford, J. M., Mathalon, D. H., Kalba, S., Whitfield, S., Faustman, W. O., Roth, W. T.
2001; 158 (11): 1914-1916
- **Cortical responsiveness during talking and listening in schizophrenia: An event-related brain potential study** *BIOLOGICAL PSYCHIATRY*
Ford, J. M., Mathalon, D. H., Kalba, S., Whitfield, S., Faustman, W. O., Roth, W. T.
2001; 50 (7): 540-549
- **Respiratory biofeedback-assisted therapy in panic disorder** *BEHAVIOR MODIFICATION*
Meuret, A. E., Wilhelm, F. H., Roth, W. T.
2001; 25 (4): 584-605

- **Respiratory dysregulation in anxiety, functional cardiac, and pain disorders - Assessment, phenomenology, and treatment** *BEHAVIOR MODIFICATION*
Wilhelm, F. H., Gevirtz, R., Roth, W. T.
2001; 25 (4): 513-545
- **Slow recovery from voluntary hyperventilation in panic disorder** *PSYCHOSOMATIC MEDICINE*
Wilhelm, F. H., Gerlach, A. L., Roth, W. T.
2001; 63 (4): 638-649
- **The somatic symptom paradox in DSM-IV anxiety disorders: suggestions for a clinical focus in psychophysiology** *BIOLOGICAL PSYCHOLOGY*
Wilhelm, F. H., Roth, W. T.
2001; 57 (1-3): 105-140
- **Blushing and physiological arousability in social phobia** *JOURNAL OF ABNORMAL PSYCHOLOGY*
Gerlach, A. L., Wilhelm, F. H., Gruber, K., Roth, W. T.
2001; 110 (2): 247-258
- **The emotional Stroop effect in anxiety disorders - General emotionality or disorder specificity?** *JOURNAL OF ANXIETY DISORDERS*
Becker, E. S., Rinck, M., MARGRAF, J., Roth, W. T.
2001; 15 (3): 147-159
- **Physiologic instability in panic disorder and generalized anxiety disorder** *BIOLOGICAL PSYCHIATRY*
Wilhelm, F. H., Trabert, W., Roth, W. T.
2001; 49 (7): 596-605
- **Characteristics of sighing in panic disorder** *BIOLOGICAL PSYCHIATRY*
Wilhelm, F. H., Trabert, W., Roth, W. T.
2001; 49 (7): 606-614
- **Computer-assisted cognitive behavioral group therapy for social phobia** *BEHAVIOR THERAPY*
Gruber, K., Moran, P. J., Roth, W. T., Taylor, C. B.
2001; 32 (1): 155-165
- **Characteristics of worry in GAD patients, social phobics, and controls** *DEPRESSION AND ANXIETY*
Hoyer, J., Becker, E. S., Roth, W. T.
2001; 13 (2): 89-96
- **Respiratory factors in clinical psychophysiology and biofeedback** *VERHALTENSTHERAPIE*
Wilhelm, F. H., Gevirtz, R., Roth, W. T.
2000; 10 (4): 258-271
- **Psychophysiological assessment: clinical applications for PTSD** *JOURNAL OF AFFECTIVE DISORDERS*
Orr, S. P., Roth, W. T.
2000; 61 (3): 225-240
- **Improving the clinical sensitivity of noninvasive assessment of cardiac vagal control**
Wilhelm, F. H., Grossman, P., Gerlach, A. L., Roth, W. T.
WILEY-BLACKWELL.2000: S105-S105
- **Event-related potential correlates of acquisition and retrieval of verbal associations in schizophrenics and controls** *JOURNAL OF PSYCHOPHYSIOLOGY*
Baving, L., Rockstroh, B., Rossner, P., Cohen, R., Elbert, T., Roth, W. T.
2000; 14 (2): 87-96
- **Failures of automatic and strategic processing in schizophrenia: comparisons of event-related brain potential and startle blink modification** *SCHIZOPHRENIA RESEARCH*
Ford, J. M., Roth, W. T., Menon, V., Pfefferbaum, A.
1999; 37 (2): 149-163

- **Explicit memory in anxiety disorders** *JOURNAL OF ABNORMAL PSYCHOLOGY*
Becker, E. S., Roth, W. T., Andrich, M., MARGRAF, J.
1999; 108 (1): 153-163
- **Analysis of cardiovascular regulation.** *Biomedical sciences instrumentation*
Wilhelm, F. H., Grossman, P., Roth, W. T.
1999; 35: 135-140
- **Voluntary breath holding in panic and generalized anxiety disorders** *PSYCHOSOMATIC MEDICINE*
Roth, W. T., Wilhelm, F. H., Trabert, W.
1998; 60 (6): 671-679
- **Using minute ventilation for ambulatory estimation of additional heart rate** *BIOLOGICAL PSYCHOLOGY*
Wilhelm, F. H., Roth, W. T.
1998; 49 (1-2): 137-150
- **Taking the laboratory to the skies: Ambulatory assessment of self-report, autonomic, and respiratory responses in flying phobia** *PSYCHOPHYSIOLOGY*
Wilhelm, F. H., Roth, W. T.
1998; 35 (5): 596-606
- **Critique - Trusting computerized data reduction too much: A critique of Anderson's ambulatory respiratory monitor** *BIOLOGICAL PSYCHOLOGY*
Wilhelm, F. H., Roth, W. T.
1998; 49 (1-2): 215-219
- **Autonomic instability during relaxation in panic disorder** *PSYCHIATRY RESEARCH*
Roth, W. T., Wilhelm, F. H., Trabert, W.
1998; 80 (2): 155-164
- **Personality, psychological states and heart rate in novice and expert parachutists** *PERSONALITY AND INDIVIDUAL DIFFERENCES*
Breivik, G., Roth, W. T., Jorgensen, P. E.
1998; 25 (2): 365-380
- **Acute and delayed effects of alprazolam on flight phobics during exposure** *VERHALTENSTHERAPIE*
Wilhelm, F. H., Roth, W. T.
1998; 8 (1): 38-47
- **Don't worry and beware of white bears: Thought suppression in anxiety patients** *JOURNAL OF ANXIETY DISORDERS*
Becker, E. S., Rinck, M., Roth, W. T., MARGRAF, J.
1998; 12 (1): 39-55
- **Speech disturbances and gaze behavior during public speaking in subtypes of social phobia** *16th National Conference of the Anxiety-Disorders-Association-of-America*
Hofmann, S. G., Gerlach, A. L., Wender, A., Roth, W. T.
PERGAMON-ELSEVIER SCIENCE LTD.1997: 573-85
- **Acute and delayed effects of alprazolam on flight phobics during exposure** *BEHAVIOUR RESEARCH AND THERAPY*
Wilhelm, F. H., Roth, W. T.
1997; 35 (9): 831-841
- **Clinical characteristics of flight phobia** *JOURNAL OF ANXIETY DISORDERS*
Wilhelm, F. H., Roth, W. T.
1997; 11 (3): 241-261
- **Risperidone in the treatment of delusional parasitosis: A case report** *JOURNAL OF CLINICAL PSYCHOPHARMACOLOGY*
Safer, D. L., Wenegrat, B., Roth, W. T.
1997; 17 (2): 131-132
- **Automatic but not strategic processing is abnormal in schizophrenics**

- Ford, J. M., Roth, W. T., Bell, C. M., Li, Y. F., Jain, S., Menon, V., Lim, K. O., Pfefferbaum, A.
ELSEVIER SCIENCE BV.1997: 233–33
- **N400 evidence of abnormal responses to speech in Alzheimer's disease** *ELECTROENCEPHALOGRAPHY AND CLINICAL NEUROPHYSIOLOGY*
Ford, J. M., Woodward, S. H., SULLIVAN, E. V., Isaacks, B. G., Tinklenberg, J. R., Yesavage, J. A., Roth, W. T.
1996; 99 (3): 235-246
 - **Prepulse inhibition of ERP components elicited by startling noises**
Ford, J. M., Roth, W. T., Bell, C. M., Li, Y. F., Jain, S.
WILEY-BLACKWELL PUBLISHING, INC.1996: S37–S37
 - **Activation in novice and expert parachutists while jumping** *PSYCHOPHYSIOLOGY*
Roth, W. T., Breivik, G., Jorgensen, P. E., Hofmann, S.
1996; 33 (1): 63-72
 - **Issues related to social anxiety among controls in social phobia research** *BEHAVIOR THERAPY*
Hofmann, S. G., Roth, W. T.
1996; 27 (1): 79-91
 - **SOCIAL PHOBIA WITH AND WITHOUT AVOIDANT PERSONALITY-DISORDER - PRELIMINARY BEHAVIOR-THERAPY OUTCOME FINDINGS** *JOURNAL OF ANXIETY DISORDERS*
Hofmann, S. G., Newman, M. G., Becker, E., Taylor, C. B., Roth, W. T.
1995; 9 (5): 427-438
 - **SEMANTIC PRIMING IS DISRUPTED BY INTRUSIVE NOISES IN THE ELDERLY**
Ford, J. M., Woodward, S. H., Roth, W. T., ISAACKS, B., Li, Y. F., Bell, C., Jackson, D., Pfefferbaum, A.
WILEY-BLACKWELL PUBLISHING, INC.1995: S32–S32
 - **PSYCHOPHYSIOLOGICAL DIFFERENCES BETWEEN SUBGROUPS OF SOCIAL PHOBIA** *JOURNAL OF ABNORMAL PSYCHOLOGY*
Hofmann, S. G., Ehlers, A., Newman, M. G., Roth, W. T.
1995; 104 (1): 224-231
 - **ELDERLY MEN AND WOMEN ARE LESS RESPONSIVE TO STARTLING NOISES - N1, P3 AND BLINK EVIDENCE** *Annual Meeting of the Society-for-Psychophysiological-Research*
Ford, J. M., Roth, W. T., Isaacks, B. G., White, P. M., Hood, S. H., Pfefferbaum, A.
ELSEVIER SCIENCE BV.1995: 57–80
 - **ERPS FOR INFREQUENT OMISSIONS AND INCLUSIONS OF STIMULUS ELEMENTS** *PSYCHOPHYSIOLOGY*
Nordby, H., Hammerborg, D., Roth, W. T., Hugdahl, K.
1994; 31 (6): 544-552
 - **CLINICAL CHARACTERISTICS OF DRIVING PHOBIA** *JOURNAL OF ANXIETY DISORDERS*
Ehlers, A., Hofmann, S. G., HERDA, C. A., Roth, W. T.
1994; 8 (4): 323-339
 - **ERPS IN SCHIZOPHRENIA - EFFECTS OF ANTIPSYCHOTIC MEDICATION** *BIOLOGICAL PSYCHIATRY*
Ford, J. M., White, P. M., Csernansky, J. G., Faustman, W. O., Roth, W. T., Pfefferbaum, A.
1994; 36 (3): 153-170
 - **DOES BEHAVIORAL TREATMENT OF SOCIAL PHOBIA LEAD TO COGNITIVE CHANGES** *BEHAVIOR THERAPY*
Newman, M. G., Hofmann, S. G., Trabert, W., Roth, W. T., Taylor, C. B.
1994; 25 (3): 503-517
 - **ABNORMALITIES OF THE LEFT TEMPORAL-LOBE IN SCHIZOPHRENIA** *NEW ENGLAND JOURNAL OF MEDICINE*
Roth, W. T., Pfefferbaum, A.
1992; 327 (23): 1689-1689
 - **P3 AND SCHIZOPHRENIA** *ANNALS OF THE NEW YORK ACADEMY OF SCIENCES*
Ford, J. M., Pfefferbaum, A., Roth, W.
1992; 658: 146-162

- **STRESS TEST REACTIVITY IN PANIC DISORDER** *ARCHIVES OF GENERAL PSYCHIATRY*
Roth, W. T., MARGRAF, J., Ehlers, A., Taylor, C. B., Maddock, R. J., Davies, S., Agras, W. S.
1992; 49 (4): 301-310
- **IMIPRAMINE AND ALPRAZOLAM EFFECTS ON STRESS TEST REACTIVITY IN PANIC DISORDER** *BIOLOGICAL PSYCHIATRY*
Roth, W. T., MARGRAF, J., Ehlers, A., Haddad, J. M., Maddock, R. J., Agras, W. S., Taylor, C. B.
1992; 31 (1): 35-51
- **PSYCHOPHYSIOLOGICAL ASSESSMENT OF DRIVING PHOBIA** *JOURNAL OF PSYCHOPHYSIOLOGY*
Sartory, G., Roth, W. T., KOPELL, M. L.
1992; 6 (4): 311-320
- **IS THERE P300 ASYMMETRY IN SCHIZOPHRENIA - REPLY** *ARCHIVES OF GENERAL PSYCHIATRY*
Pfefferbaum, A., Ford, J. M., White, P. M., Roth, W. T., Mathalon, D. H.
1991; 48 (4): 381-383
- **AUDITORY EVENT-RELATED POTENTIALS AND ELECTRODERMAL ACTIVITY IN MEDICATED AND UNMEDICATED SCHIZOPHRENICS** *BIOLOGICAL PSYCHIATRY*
Roth, W. T., GOODALE, J., Pfefferbaum, A.
1991; 29 (6): 585-599
- **HOW BLIND ARE DOUBLE-BLIND STUDIES** *JOURNAL OF CONSULTING AND CLINICAL PSYCHOLOGY*
MARGRAF, J., Ehlers, A., Roth, W. T., Clark, D. B., Sheikh, J., Agras, W. S., Taylor, C. B.
1991; 59 (1): 184-187
- **EFFECT OF 2 BETA-BLOCKERS ON STRESS DURING MENTAL ARITHMETIC** *PSYCHOPHARMACOLOGY*
Schweizer, R., Roth, W. T., Elbert, T.
1991; 105 (4): 573-577
- **FILTER FREQUENCY IN P-3 EXPERIMENTS** *BIOLOGICAL PSYCHIATRY*
Pfefferbaum, A., Ford, J. M., Roth, W. T.
1990; 28 (12): 1070-1071
- **SKIN-CONDUCTANCE HABITUATION IN PANIC DISORDER PATIENTS** *BIOLOGICAL PSYCHIATRY*
Roth, W. T., Ehlers, A., Taylor, C. B., MARGRAF, J., Agras, W. S.
1990; 27 (11): 1231-1243
- **CARDIOVASCULAR AND SYMPTOMATIC REDUCTION EFFECTS OF ALPRAZOLAM AND IMIPRAMINE IN PATIENTS WITH PANIC DISORDER - RESULTS OF A DOUBLE-BLIND, PLACEBO-CONTROLLED TRIAL** *JOURNAL OF CLINICAL PSYCHOPHARMACOLOGY*
Taylor, C. B., Hayward, C., King, R., Ehlers, A., MARGRAF, J., Maddock, R., Clark, D., Roth, W. T., Agras, W. S.
1990; 10 (2): 112-118
- **MOTOR-ACTIVITY AND TONIC HEART-RATE IN PANIC DISORDER** *PSYCHIATRY RESEARCH*
Clark, D. B., Taylor, C. B., Hayward, C., King, R., MARGRAF, J., Ehlers, A., Roth, W. T., Agras, W. S.
1990; 32 (1): 45-53
- **SURREPTITIOUS DRUG-USE BY PATIENTS IN A PANIC DISORDER STUDY** *AMERICAN JOURNAL OF PSYCHIATRY*
Clark, D. B., Taylor, C. B., Roth, W. T., Hayward, C., Ehlers, A., MARGRAF, J., Agras, W. S.
1990; 147 (4): 507-509
- **GUTTMAN SCALING IN AGORAPHOBIA - CROSS-CULTURAL REPLICATION AND PREDICTION OF TREATMENT RESPONSE PATTERNS** *BRITISH JOURNAL OF CLINICAL PSYCHOLOGY*
MARGRAF, J., Ehlers, A., Taylor, C. B., Arnow, B., Roth, W. T.
1990; 29: 37-41
- **USE OF MEDICATION AND INVIVO EXPOSURE IN VOLUNTEERS FOR PANIC DISORDER RESEARCH** *AMERICAN JOURNAL OF PSYCHIATRY*
Taylor, C. B., King, R., MARGRAF, J., Ehlers, A., Telch, M., Roth, W. T., Agras, W. S.
1989; 146 (11): 1423-1426

- **P-3 IN SCHIZOPHRENIA IS AFFECTED BY STIMULUS MODALITY, RESPONSE REQUIREMENTS, MEDICATION STATUS, AND NEGATIVE SYMPTOMS** *ARCHIVES OF GENERAL PSYCHIATRY*
Pfefferbaum, A., Ford, J. M., White, P. M., Roth, W. T.
1989; 46 (11): 1035-1044
- **PLASMA-LIPID LEVELS IN PATIENTS WITH PANIC DISORDER OR AGORAPHOBIA** *AMERICAN JOURNAL OF PSYCHIATRY*
Hayward, C., Taylor, C. B., Roth, W. T., King, R., Agras, W. S.
1989; 146 (7): 917-919
- **COGNITIVE ASPECTS OF PANIC ATTACKS - CONTENT, COURSE AND RELATIONSHIP TO LABORATORY STRESSORS** *BRITISH JOURNAL OF PSYCHIATRY*
Zucker, D., Taylor, C. B., Brouillard, M., Ehlers, A., MARGRAF, J., Telch, M., Roth, W. T., Agras, W. S.
1989; 155: 86-91
- **P3 AND (DE)ACTIVATION** *BEHAVIORAL AND BRAIN SCIENCES*
Roth, W. T., Ford, J. M.
1988; 11 (3): 393-394
- **EVENT-RELATED POTENTIALS TO TIME-DEVIANT AND PITCH-DEVIANT TONES** *PSYCHOPHYSIOLOGY*
Nordby, H., Roth, W. T., Pfefferbaum, A.
1988; 25 (3): 249-261
- **EVENT-RELATED POTENTIALS TO BREAKS IN SEQUENCES OF ALTERNATING PITCHES OR INTERSTIMULUS INTERVALS** *PSYCHOPHYSIOLOGY*
Nordby, H., Roth, W. T., Pfefferbaum, A.
1988; 25 (3): 262-268
- **AUTONOMIC CHANGES AFTER TREATMENT OF AGORAPHOBIA WITH PANIC ATTACKS** *PSYCHIATRY RESEARCH*
Roth, W. T., Telch, M. J., Taylor, C. B., Agras, W. S.
1988; 24 (1): 95-107
- **MITRAL-VALVE PROLAPSE AND PANIC DISORDER - A REVIEW OF THEIR RELATIONSHIP** *PSYCHOSOMATIC MEDICINE*
MARGRAF, J., Ehlers, A., Roth, W. T.
1988; 50 (2): 93-113
- **ANXIETY INDUCED BY FALSE HEART-RATE FEEDBACK IN PATIENTS WITH PANIC DISORDER** *BEHAVIOUR RESEARCH AND THERAPY*
Ehlers, A., MARGRAF, J., Roth, W. T., Taylor, C. B., Birbaumer, N.
1988; 26 (1): 1-11
- **Selective Processing of Threat Cues in Subjects with Panic Attacks** *COGNITION & EMOTION*
Ehlers, A., Margraf, J., Davies, S., Roth, W. T.
1988; 2 (3): 201-219
- **Treadmill exercise test and ambulatory measures in panic attacks.** *American journal of cardiology*
Taylor, C. B., King, R., Ehlers, A., MARGRAF, J., Clark, D., Hayward, C., Roth, W. T., Agras, S.
1987; 60 (18): 48J-52J
- **PANIC ATTACKS IN THE NATURAL-ENVIRONMENT** *JOURNAL OF NERVOUS AND MENTAL DISEASE*
MARGRAF, J., Taylor, C. B., Ehlers, A., Roth, W. T., Agras, W. S.
1987; 175 (9): 558-565
- **SERUM PHOSPHATE AND ANXIETY IN MAJOR DEPRESSION** *PSYCHIATRY RESEARCH*
Maddock, R. J., Moses, J. A., Roth, W. T., King, R., Murchison, A., Berger, P. A.
1987; 22 (1): 29-36
- **Event-related potentials to deviations of pitch and of timing.** *Electroencephalography and clinical neurophysiology. Supplement*
Nordby, H., Roth, W. T., Pfefferbaum, A.
1987; 40: 241-245
- **PANIC ATTACK ASSOCIATED WITH PERCEIVED HEART-RATE ACCELERATION - A CASE-REPORT** *BEHAVIOR THERAPY*

- MARGRAF, J., Ehlers, A., Roth, W. T.
1987; 18 (1): 84-89
- **PANIC-DISORDERED SUBJECTS PERCEPTIONS OF FILM - A REPERTORY GRID STUDY** *PERCEPTUAL AND MOTOR SKILLS*
BLOWERS, G. H., MCCLENAHAN, K. L., Roth, W. T.
1986; 63 (3): 1119-1128
 - **AUTONOMIC CHARACTERISTICS OF AGORAPHOBIA WITH PANIC ATTACKS** *BIOLOGICAL PSYCHIATRY*
Roth, W. T., Telch, M. J., Taylor, C. B., SACHITANO, J. A., Gallen, C. C., KOPELL, M. L., MCCLENAHAN, K. L., Agras, W. S., Pfefferbaum, A.
1986; 21 (12): 1133-1154
 - **LACTATE INFUSIONS AND PANIC ATTACKS - DO PATIENTS AND CONTROLS RESPOND DIFFERENTLY** *PSYCHIATRY RESEARCH*
Ehlers, A., MARGRAF, J., Roth, W. T., Taylor, C. B., Maddock, R. J., Sheikh, J., KOPELL, M. L., MCCLENAHAN, L., Gossard, D., BLOWERS, G. H., Agras, W. S., KOPELL, B. S.
1986; 17 (4): 295-308
 - **AMBULATORY HEART-RATE CHANGES IN PATIENTS WITH PANIC ATTACKS** *AMERICAN JOURNAL OF PSYCHIATRY*
Taylor, C. B., Sheikh, J., Agras, W. S., Roth, W. T., MARGRAF, J., Ehlers, A., Maddock, R. J., Gossard, D.
1986; 143 (4): 478-482
 - **Applications of cognitive ERPs in psychiatric patients.** *Electroencephalography and clinical neurophysiology. Supplement*
Roth, W. T., Duncan, C. C., Pfefferbaum, A., Timsit-Berthier, M.
1986; 38: 419-438
 - **BIOLOGICAL MODELS OF PANIC DISORDER AND AGORAPHOBIA - A REVIEW** *BEHAVIOUR RESEARCH AND THERAPY*
MARGRAF, J., Ehlers, A., Roth, W. T.
1986; 24 (5): 553-567
 - **SODIUM LACTATE INFUSIONS AND PANIC ATTACKS - A REVIEW AND CRITIQUE** *PSYCHOSOMATIC MEDICINE*
MARGRAF, J., Ehlers, A., Roth, W. T.
1986; 48 (1-2): 23-57
 - **PANIC AND ANXIETY - THEORY AND RESEARCH ON A NEW CLASSIFICATION OF PANIC ATTACKS** *ZEITSCHRIFT FUR KLINISCHE PSYCHOLOGIE-FORSCHUNG UND PRAXIS*
Ehlers, A., MARGRAF, J., Roth, W. T.
1986; 15 (4): 281-302
 - **AMBULATORY MONITORING OF PATIENTS WITH ANXIETY AND PANIC** *CLINICAL NEUROPHARMACOLOGY*
Taylor, C. B., Roth, W. T., Agras, W. S., MARGRAF, J., Ehlers, A.
1986; 9: 37-39
 - **COMBINED PHARMACOLOGICAL AND BEHAVIORAL TREATMENT FOR AGORAPHOBIA** *BEHAVIOUR RESEARCH AND THERAPY*
Telch, M. J., Agras, W. S., Taylor, C. B., Roth, W. T., Gallen, C. C.
1985; 23 (3): 325-335
 - **CLINICAL-APPLICATION OF THE P3-COMPONENT OF EVENT-RELATED POTENTIALS .2. DEMENTIA, DEPRESSION AND SCHIZOPHRENIA** *ELECTROENCEPHALOGRAPHY AND CLINICAL NEUROPHYSIOLOGY*
Pfefferbaum, A., Wenegrat, B. G., Ford, J. M., Roth, W. T., KOPELL, B. S.
1984; 59 (2): 104-124
 - **INTENSITY AND TASK EFFECTS ON EVOKED PHYSIOLOGICAL-RESPONSES TO NOISE BURSTS** *PSYCHOPHYSIOLOGY*
Roth, W. T., DORATO, K. H., KOPELL, B. S.
1984; 21 (4): 466-481
 - **EFFECTS OF STIMULUS SEQUENCE ON P300 AND REACTION-TIME IN SCHIZOPHRENICS - A PRELIMINARY-REPORT** *ANNALS OF THE NEW YORK ACADEMY OF SCIENCES*
DUNCANJOHNSON, C. C., Roth, W. T., KOPELL, B. S.
1984; 425 (JUN): 570-577
 - **ERPS AND PSYCHOPATHOLOGY .1. BEHAVIORAL PROCESS ISSUES** *ANNALS OF THE NEW YORK ACADEMY OF SCIENCES*
Roth, W. T., Tecce, J. J., Pfefferbaum, A., Rosenbloom, M., Callaway, E.

1984; 425 (JUN): 496-522

- **CLINICAL-APPLICATION OF THE P3 COMPONENT OF EVENT-RELATED POTENTIALS .1. NORMAL AGING** *ELECTROENCEPHALOGRAPHY AND CLINICAL NEUROPHYSIOLOGY*
Pfefferbaum, A., Ford, J. M., Wenegrat, B. G., Roth, W. T., KOPELL, B. S.
1984; 59 (2): 85-103
- **AUDITORY STIMULUS-INTENSITY EFFECTS ON COMPONENTS OF THE LATE POSITIVE COMPLEX** *ELECTROENCEPHALOGRAPHY AND CLINICAL NEUROPHYSIOLOGY*
Roth, W. T., BLOWERS, G. H., Doyle, C. M., KOPELL, B. S.
1982; 54 (2): 132-146
- **BRAIN-STEM POTENTIALS IN CHRONIC-ALCOHOLICS**
Sanquist, T. F., Doty, A. K., Roth, W. T., Jernigan, T. L., Pfefferbaum, A.
SOC PSYCHOPHYSIOL RES.1982: 583-84
- **AUDITORY EVENT-RELATED POTENTIALS IN SCHIZOPHRENIA AND DEPRESSION** *PSYCHIATRY RESEARCH*
Roth, W. T., Pfefferbaum, A., Kelly, A. F., Berger, P. A., KOPELL, B. S.
1981; 4 (2): 199-212
- **P3 REDUCTION IN AUDITORY EVOKED-POTENTIALS OF SCHIZOPHRENICS** *ELECTROENCEPHALOGRAPHY AND CLINICAL NEUROPHYSIOLOGY*
Roth, W. T., Pfefferbaum, A., HORVATH, T. B., Berger, P. A., KOPELL, B. S.
1980; 49 (5-6): 497-505
- **The relationship between autonomic variables and P300 in a habituation paradigm.** *Progress in brain research*
Roth, W. T., BLOWERS, G. H., KOPELL, B. S.
1980; 54: 422-426
- **SENSITIVITY OF SOME HUMAN COGNITIVE FUNCTIONS TO EFFECTS OF METHAMPHETAMINE AND SECOBARBITAL** *DRUG AND ALCOHOL DEPENDENCE*
Mohs, R. C., Tinklenberg, J. R., Roth, W. T., KOPELL, B. S.
1980; 5 (2): 145-150
- **AUDITORY BRAIN-STEM AND CORTICAL EVOKED-POTENTIALS IN SCHIZOPHRENIA** *BIOLOGICAL PSYCHIATRY*
Pfefferbaum, A., HORVATH, T. B., Roth, W. T., Tinklenberg, J. R., KOPELL, B. S.
1980; 15 (2): 209-223
- **Acute and chronic effects of ethanol on event-related potentials.** *Advances in experimental medicine and biology*
Pfefferbaum, A., HORVATH, T. B., Roth, W. T., Clifford, S. T., KOPELL, B. S.
1980; 126: 625-639
- **Clinical application of sustained auditory evoked potentials.** *Progress in brain research*
Pfefferbaum, A., Roth, W. T., Ford, J. M., HORVATH, T. B., KOPELL, B. S.
1980; 54: 526-530
- **P300 and reaction time in schizophrenics and controls.** *Progress in brain research*
Roth, W. T., Pfefferbaum, A., HORVATH, T. B., KOPELL, B. S.
1980; 54: 522-525
- **Effects of stimulus intensity on P300.** *Progress in brain research*
Roth, W. T., Doyle, C. M., Pfefferbaum, A., KOPELL, B. S.
1980; 54: 296-300
- **AGE-RELATED-CHANGES IN AUDITORY EVENT-RELATED POTENTIALS** *ELECTROENCEPHALOGRAPHY AND CLINICAL NEUROPHYSIOLOGY*
Pfefferbaum, A., Ford, J. M., Roth, W. T., KOPELL, B. S.
1980; 49 (3-4): 266-276
- **AGE-DIFFERENCES IN P3-REACTION TIME ASSOCIATIONS** *ELECTROENCEPHALOGRAPHY AND CLINICAL NEUROPHYSIOLOGY*
Pfefferbaum, A., Ford, J. M., Roth, W. T., KOPELL, B. S.

1980; 49 (3-4): 257-265

- **EVENT-RELATED POTENTIALS IN SCHIZOPHRENICS** *ELECTROENCEPHALOGRAPHY AND CLINICAL NEUROPHYSIOLOGY*
Roth, W. T., HORVATH, T. B., Pfefferbaum, A., KOPELL, B. S.
1980; 48 (2): 127-139
- **State-trait considerations of event-related potential markers of psychopathology.** *Psychopharmacology bulletin*
Pfefferbaum, A., Roth, W. T., KOPELL, B. S.
1979; 15 (1): 36-39
- **EVENT-RELATED POTENTIALS RECORDED FROM YOUNG AND OLD ADULTS DURING A MEMORY RETRIEVAL TASK** *ELECTROENCEPHALOGRAPHY AND CLINICAL NEUROPHYSIOLOGY*
Ford, J. M., Roth, W. T., Mohs, R. C., Hopkins, W. F., KOPELL, B. S.
1979; 47 (4): 450-459
- **EVENT-RELATED POTENTIAL CHANGES IN HEALTHY AGED FEMALES** *ELECTROENCEPHALOGRAPHY AND CLINICAL NEUROPHYSIOLOGY*
Pfefferbaum, A., Ford, J. M., Roth, W. T., Hopkins, W. F., KOPELL, B. S.
1979; 46 (1): 81-86
- **EVENT-RELATED POTENTIAL CHANGES IN CHRONIC-ALCOHOLICS** *ELECTROENCEPHALOGRAPHY AND CLINICAL NEUROPHYSIOLOGY*
Pfefferbaum, A., HORVATH, T. B., Roth, W. T., KOPELL, B. S.
1979; 47 (6): 637-647
- **EFFECTS OF ETHANOL AND MEPERIDINE ON AUDITORY EVOKED-POTENTIALS** *DRUG AND ALCOHOL DEPENDENCE*
Pfefferbaum, A., Roth, W. T., Tinklenberg, J. R., Rosenbloom, M. J., KOPELL, B. S.
1979; 4 (5): 371-380
- **AGE EFFECTS ON EVENT-RELATED POTENTIALS IN A SELECTIVE ATTENTION TASK** *JOURNALS OF GERONTOLOGY*
Ford, J. M., HINK, R. F., Hopkins, W. F., Roth, W. T., Pfefferbaum, A., KOPELL, B. S.
1979; 34 (3): 388-395
- **MARIHUANA EFFECTS ON ASSOCIATIONS TO NOVEL STIMULI** *JOURNAL OF NERVOUS AND MENTAL DISEASE*
Tinklenberg, J. R., DARLEY, C. F., Roth, W. T., Pfefferbaum, A., KOPELL, B. S.
1978; 166 (5): 362-364
- **CORTICAL SLOW POTENTIALS AND OCCIPITAL EEG IN CONGENITAL BLINDNESS** *JOURNAL OF THE NEUROLOGICAL SCIENCES*
Noebels, J. L., Roth, W. T., KOPELL, B. S.
1978; 37 (1-2): 51-58
- **TIMING OF CNV RESOLUTION IN A MEMORY RETRIEVAL TASK** *BIOLOGICAL PSYCHOLOGY*
Roth, W. T., Rothbart, R. M., KOPELL, B. S.
1978; 6 (1): 39-49
- **TIME COURSE EFFECTS OF MARIHUANA AND ETHANOL ON EVENT-RELATED POTENTIALS** *PSYCHOPHARMACOLOGY*
KOPELL, B. S., Roth, W. T., Tinklenberg, J. R.
1978; 56 (1): 15-20
- **LONG-LATENCY EVOKED-POTENTIALS AND REACTION-TIME** *PSYCHOPHYSIOLOGY*
Roth, W. T., Ford, J. M., KOPELL, B. S.
1978; 15 (1): 17-23
- **CORTICAL SLOW POTENTIALS AND OCCIPITAL EEG IN CONGENITAL BLINDNESS** *JOURNAL OF THE NEUROLOGICAL SCIENCES*
Noebels, J. L., Roth, W. T., KOPELL, B. S.
1978; 37 (1-2): 51-58
- **TIMING OF CNV RESOLUTION IN A MEMORY RETRIEVAL TASK** *BIOLOGICAL PSYCHOLOGY*
Roth, W. T., Rothbart, R. M., KOPELL, B. S.
1978; 6 (1): 39-49
- **TIME COURSE EFFECTS OF MARIHUANA AND ETHANOL ON EVENT-RELATED POTENTIALS** *PSYCHOPHARMACOLOGY*

- KOPELL, B. S., Roth, W. T., Tinklenberg, J. R.
1978; 56 (1): 15-20
- **MARIHUANA AND MEMORY INTRUSIONS** *JOURNAL OF NERVOUS AND MENTAL DISEASE*
Pfefferbaum, A., DARLEY, C. F., Tinklenberg, J. R., Roth, W. T., KOPELL, B. S.
1977; 165 (6): 381-386
 - **LATE EVENT-RELATED POTENTIALS AND PSYCHOPATHOLOGY** *SCHIZOPHRENIA BULLETIN*
Roth, W. T.
1977; 3 (1): 105-120
 - **DO COGNITIVE-ABILITIES DECLINE WITH AGE** *GERIATRICS*
Ford, J. M., Roth, W. T.
1977; 32 (9): 59-62
 - **MARIHUANA EFFECTS ON LONG-TERM-MEMORY ASSESSMENT AND RETRIEVAL** *PSYCHOPHARMACOLOGY*
DARLEY, C. F., Tinklenberg, J. R., Roth, W. T., Vernon, S., KOPELL, B. S.
1977; 52 (3): 239-241
 - **ETHANOL AND MARIHUANA EFFECTS ON EVENT-RELATED POTENTIALS IN A MEMORY RETRIEVAL PARADIGM** *ELECTROENCEPHALOGRAPHY AND CLINICAL NEUROPHYSIOLOGY*
Roth, W. T., Tinklenberg, J. R., KOPELL, B. S.
1977; 42 (3): 381-388
 - **MARIHUANA AND ETHANOL - DIFFERENTIAL EFFECTS ON TIME PERCEPTION, HEART-RATE, AND SUBJECTIVE RESPONSE** *PSYCHOPHARMACOLOGY*
Tinklenberg, J. R., Roth, W. T., KOPELL, B. S.
1976; 49 (3): 275-279
 - **EFFECTS OF STIMULUS PROBABILITY AND TASK-RELEVANCE ON EVENT-RELATED POTENTIALS** *PSYCHOPHYSIOLOGY*
Roth, W. T., Ford, J. M., Lewis, S. J., KOPELL, B. S.
1976; 13 (4): 311-317
 - **AUDITORY EVOKED-POTENTIALS TO UNPREDICTABLE SHIFTS IN PITCH** *PSYCHOPHYSIOLOGY*
Ford, J. M., Roth, W. T., KOPELL, B. S.
1976; 13 (1): 32-39
 - **CANNABIS AND ALCOHOL EFFECTS ON ASSAULTIVENESS IN ADOLESCENT DELINQUENTS** *ANNALS OF THE NEW YORK ACADEMY OF SCIENCES*
Tinklenberg, J. R., Roth, W. T., KOPELL, B. S., Murphy, P.
1976; 282 (DEC30): 85-94
 - **PARAMETERS OF TEMPORAL RECOVERY OF HUMAN AUDITORY EVOKED-POTENTIAL** *ELECTROENCEPHALOGRAPHY AND CLINICAL NEUROPHYSIOLOGY*
Roth, W. T., KRAINZ, P. L., Ford, J. M., Tinklenberg, J. R., Rothbart, R. M., KOPELL, B. S.
1976; 40 (6): 623-632
 - **MOOD STATES AND 24-HOUR CARDIAC MONITORING** *JOURNAL OF PSYCHOSOMATIC RESEARCH*
Roth, W. T., Tinklenberg, J. R., Doyle, C. M., HORVATH, T. B., KOPELL, B. S.
1976; 20 (3): 179-186
 - **ATTENTION EFFECTS ON AUDITORY EVOKED-POTENTIALS TO INFREQUENT EVENTS** *BIOLOGICAL PSYCHOLOGY*
Ford, J. M., Roth, W. T., KOPELL, B. S.
1976; 4 (1): 65-77
 - **MARIHUANA EFFECTS ON TAT FORM AND CONTENT** *PSYCHOPHARMACOLOGIA*
Roth, W. T., Rosenbloom, M. J., DARLEY, C. F., Tinklenberg, J. R., KOPELL, B. S.
1975; 43 (3): 261-266
 - **RELIABILITY OF CONTINGENT NEGATIVE VARIATION AND AUDITORY EVOKED-POTENTIAL** *ELECTROENCEPHALOGRAPHY AND CLINICAL NEUROPHYSIOLOGY*

- Roth, W. T., KOPELL, B. S., Tinklenberg, J. R., HUNTSBERGER, G. E., Kraemer, H. C.
1975; 38 (1): 45-50
- **CONTINGENT NEGATIVE VARIATION DURING A MEMORY RETRIEVAL TASK** *ELECTROENCEPHALOGRAPHY AND CLINICAL NEUROPHYSIOLOGY*
Roth, W. T., KOPELL, B. S., Tinklenberg, J. R., DARLEY, C. F., Sikora, R., VESECKY, T. B.
1975; 38 (2): 171-174
 - **Proceedings: Drugs, delinquency, and aggression.** *Psychopharmacology bulletin*
Tinklenberg, J. R., KOPELL, B. S., Roth, W. T., Darley, C.
1974; 10 (4): 62-63
 - **The nature of storage deficits and state-dependent retrieval under marihuana.** *Psychopharmacologia*
DARLEY, C. F., Tinklenberg, J. R., Roth, W. T., Atkinson, R. C.
1974; 37 (4): 139-149
 - **DRUG INVOLVEMENT IN CRIMINAL ASSAULTS BY ADOLESCENTS** *ARCHIVES OF GENERAL PSYCHIATRY*
TINKLENB, J. R., MURPHY, P. L., Murphy, P., DARLEY, C. F., Roth, W. T., KOPELL, B. S.
1974; 30 (5): 685-689
 - **SOME MOTIVATIONAL ASPECTS OF EXERCISE** *JOURNAL OF SPORTS MEDICINE AND PHYSICAL FITNESS*
Roth, W. T.
1974; 14 (1): 40-47
 - **PREVALENCE AND METHODS OF CONTROL OF CEPHALIC SKIN POTENTIAL EEG ARTIFACT** *PSYCHOPHYSIOLOGY*
CORBY, J. C., Roth, W. T., KOPELL, B. S.
1974; 11 (3): 350-360
 - **NATURE OF STORAGE DEFICITS AND STATE-DEPENDENT RETRIEVAL UNDER MARIHUANA** *PSYCHOPHARMACOLOGIA*
DARLEY, C. F., TINKLENB, J. R., Roth, W. T., Atkinson, R. C.
1974; 37 (2): 139-149
 - **Influence of marihuana on storage and retrieval processe in memory.** *Memory & cognition*
DARLEY, C. F., Tinklenberg, J. R., Roth, W. T., Hollister, L. E., Atkinson, R. C.
1973; 1 (2): 196-200
 - **9 -Transtetrahydrocannabinol and natural marihuana. A controlled comparison.** *Archives of general psychiatry*
Galanter, M., Weingartner, H., Vaughan, T. B., Roth, W. T., WYATT, R. J.
1973; 28 (2): 278-281
 - **P300 AN ORIENTING REACTION IN HUMAN AUDITORY EVOKED-RESPONSE** *PERCEPTUAL AND MOTOR SKILLS*
Roth, W. T., KOPELL, B. S.
1973; 36 (1): 219-225
 - **MARIHUANA AND SYNTHETIC DELTA-9-TRANS-TETRAHYDROCANNABINOL - SOME EFFECTS ON AUDITORY EVOKED-RESPONSE AND BACKGROUND EEG IN HUMANS** *BIOLOGICAL PSYCHIATRY*
Roth, W. T., Galanter, M., Weingartner, H., Vaughan, T. B., WYATT, R. J.
1973; 6 (3): 221-233
 - **AUDITORY EVOKED-RESPONSES TO UNPREDICTABLE STIMULI** *PSYCHOPHYSIOLOGY*
Roth, W. T.
1973; 10 (2): 125-138
 - **DELTA9-TRANSTETRAHYDROCANNABINOL AND NATURAL MARIHUANA - CONTROLLED COMPARISON** *ARCHIVES OF GENERAL PSYCHIATRY*
Galanter, M., Weingartner, H., Vaughan, T. B., Roth, W. T., WYATT, R. J.
1973; 28 (2): 278-281
 - **The effect of marihuana on tracking task performance.** *Psychopharmacologia*
Roth, W. T., Tinklenberg, J. R., Whitaker, C. A., DARLEY, C. F., KOPELL, B. S., Hollister, L. E.
1973; 33 (3): 259-265

- **CONTINUOUS ELECTROCARDIOGRAPHIC MONITORING DURING MARIHUANA INTOXICATION** *CLINICAL PHARMACOLOGY & THERAPEUTICS*
Roth, W. T., TINKLENB, J. R., KOPELL, B. S., HOLLISTE, L. E.
1973; 14 (4): 533-540
- **INFLUENCE OF MARIHUANA ON STORAGE AND RETRIEVAL PROCESSES IN MEMORY** *MEMORY & COGNITION*
DARLEY, C. F., TINKLENB, J. R., Roth, W. T., HOLLISTE, L. E., Atkinson, R. C.
1973; 1 (2): 196-200
- **EFFECT OF MARIHUANA ON TRACKING TASK-PERFORMANCE** *PSYCHOPHARMACOLOGIA*
Roth, W. T., TINKLENB, J. R., Whitaker, C. A., DARLEY, C. F., KOPELL, B. S., HOLLISTE, L. E.
1973; 33 (3): 259-265
- **EVOKED-POTENTIAL CORRELATES OF SIGNAL RECOGNITION BETWEEN AND WITHIN MODALITIES** *SCIENCE*
Ford, J. M., Roth, W. T., Dirks, S. J., KOPELL, B. S.
1973; 181 (4098): 465-466
- **Effects on humans of 9 -tetrahydrocannabinol administered by smoking.** *Science*
Galanter, M., WYATT, R. J., Lemberger, L., Weingartner, H., Vaughan, T. B., Roth, W. T.
1972; 176 (4037): 934-936
- **EFFECTS ON HUMANS OF DELTA9-TETRAHYDROCANNABINOL ADMINISTERED BY SMOKING** *SCIENCE*
Galanter, M., Vaughan, T. B., Roth, W. T., WYATT, R. J., LEMBERGE, L.
1972; 176 (4037): 934-?
- **EFFECT OF ATTENTION ON AVERAGE EVOKED RESPONSE TO SPEECH SOUNDS** *ELECTROENCEPHALOGRAPHY AND CLINICAL NEUROPHYSIOLOGY*
Roth, W. T., KOPELL, B. S., BERTOZZI, P. E.
1970; 29 (1): 38-?
- **AUDITORY EVOKED RESPONSE TO REPEATED STIMULI DURING A VIGILANCE TASK** *PSYCHOPHYSIOLOGY*
Roth, W. T., KOPELL, B. S.
1969; 6 (3): 301-?