

Stanford

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*
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- **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)*
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- **Effects of psychosocial and physical stress on lactate and anxiety levels** *STRESS-THE INTERNATIONAL JOURNAL ON THE BIOLOGY OF STRESS*
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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.
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Kim, S., Roth, W. T., Wollburg, E.
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- **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*
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- **Airway constriction in asthma during sustained emotional stimulation with films** *BIOLOGICAL PSYCHOLOGY*
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- **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.
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Roth, W. T.
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- **Do Unexpected Panic Attacks Occur Spontaneously?** *BIOLOGICAL PSYCHIATRY*
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- **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.
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- **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.
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 - **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.
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 - **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.
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 - **Twenty-four hour skin conductance in panic disorder** *JOURNAL OF PSYCHIATRIC RESEARCH*
Doberenz, S., Roth, W. T., Wollburg, E., Breuninger, C., Kim, S.
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 - **Temporal stability and coherence of anxiety, dyspnea, and physiological variables in panic disorder** *BIOLOGICAL PSYCHOLOGY*
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 - **Change point analysis for longitudinal physiological data: Detection of cardio-respiratory changes preceding panic attacks** *BIOLOGICAL PSYCHOLOGY*
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- **Sympathetic activation in broadly defined generalized anxiety disorder** *JOURNAL OF PSYCHIATRIC RESEARCH*
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- **Cardiovascular, electrodermal, and respiratory response patterns to fear- and sadness-inducing films** *12th Annual Meeting of the Society-for-Psychophysiological-Research*
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- **Clinical anxiety and respiration: Palo Alto studies in progress** *12th Annual Meeting of the International-Society-for-the-Advancement-of-Respiratory-Psychophysiology*
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- **The psychophysiology of fear and sadness: Cardiovascular, electrodermal, and respiratory responses during film viewing** *47th Annual Meeting of the Society-for-Psychophysiological-Research*
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- **Circadian positive and negative affect and heart rate variability in depressed and nondepressed individuals at risk for cardiovascular disease**
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