Evoked Potentials Laboratory

Hillel Pratt Ph.D. Prof

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Prof. Pratt's research is in the non-invasive recording of human brain and nervous system electrical activity using evoked potential techniques. Specifically, studies are conducted on the improvement of recording and analysis techniques for sensory and cognitive evoked potentials.
The modalities studied are auditory, visual, somatosensory, and cognitive processes related to memory and language and the electric events associated with them. Convergence of structural and functional imaging of the brain in action is the final goal of these studies.

Academic Degrees

1972 B.Sc. with Honors, Physiology and Zoology, The Hebrew University, Jerusalem, Israel.
1977 Ph.D. in Neurobiology, The Hebrew University Hadassah Medical School, Jerusalem, Israel

Academic Appointments

Teaching Assistant at the Hebrew University - Hadassah Medical School, Jerusalem, Israel, 1974-1976.
Instructor at the Hebrew University - Hadassah Medical School, Jerusalem, Israel, 1976-1977.
Postdoctoral Research Neurophysiologist at the University of California, Irvine, 1977-1979.
Lecturer at the Technion - Israel Institute of Technology, Haifa, Israel, 1979-1982.
Senior lecturer at the Technion - Israel Institute of Technology, Haifa, Israel, 1982-1989.
Adjunct Associate Professor at the University of California, Irvine, 1986-1988.
Associate Professor at the Technion - Israel Institute of Technology, Haifa, Israel, 1989-1998.
Adjunct Full Professor at Tel-Aviv University, Tel-Aviv, Israel, 1992- present.
Full Professor at the Technion - Israel Institute of Technology, Haifa, Israel, 1998-present.
Visiting Professor at the University of California, Irvine, 2000-2003.

Teaching experience :

Hebrew University - Hadassah Medical School, Jerusalem, Israel, courses to Medical students and to Biology students in: General Physiology, Human Physiology, Sensory Physiology (1974-1977).

Haifa University, Haifa, Israel, course to Psychology and Occupational Therapy students in: Methods in Brain Research (1980).

Oranim, The Kibbutz Movement's Teachers' College, Haifa University, Oranim, Israel, courses to Biology students in: General Physiology, Neurophysiology (1983-present).

Tel-Aviv University School of Continuing Education in Medicine, Ramat Aviv, Israel, organizer and contributor to courses for residents and senior EEG technologists in Clinical Neurophysiology (1989, 1990, 1994).

Tel-Aviv University Sackler Faculty of Medicine, School for Communication Disorders, Speech, Language and Hearing, course for graduate students in Auditory Neurophysiology and Evoked Potentials (1992-present).

Technion - Israel Institute of Technology, Haifa, Israel, courses to Biology students, Bio-Medical Engineering students and Medical students in: Introduction to Behavioral Biology, Evoked Potentials and Behavior, Clinical Application of Evoked Potentials, Introduction to Sensory Systems, Integrative Aspects of Brain Structure and Function, and contributions to courses in: Neurophysiology, Introduction to Bio-Medical Engineering, Advanced Audiology (1979-present).

Universidad Nacional Autonoma de Mexico, Mexico City, Mexico, invited courses on Modern Methods of Auditory Evoked Potential Recording, for Neuroscience graduate students and residents of Audiology and Otolaryngology (1993, 1994).

Research experience

Hebrew University - Hadassah Medical School, Department of Physiology, Jerusalem, Israel, Ph.D. Research (1974-1977). Thesis title: "Psychophysical and Electrophysiological Correlations in the Auditory System of Man". Instructor: Prof. H. Sohmer. Programming: General purpose D.E.C. PDP-15 computers for on-line conduction of simultaneous psychophysical tests and electrophysiological recordings and data acquisition, as well as for off-line measurements and analysis of auditory nerve, brainstem and cortical evoked potentials. Clinical work: Audiological and Neurological uses of Cochlear Microphonic Potentials, of Auditory Brainstem Evoked Potentials, of Cortical Evoked Potentials and of the Frequency Following Response.

University of California at Irvine, Department of Neurology. Postdoctoral research (1977-1979). Research project: Development of Technique for Recording Mechanically Evoked Somatosensory Potentials and Neurological Uses of Mechanically Evoked Potentials. Sponsor: Prof. A. Starr. Clinical work: Neurological uses of Auditory, Visual, Electrically and Mechanically Evoked Somatosensory Potentials. In-surgery monitoring using Auditory, Visual and Somatosensory Evoked Potentials.

Technion Israel Institute of Technology, Faculty of Medicine, Unit of Behavioral Biology, Haifa, Israel. Establishing and directing the Evoked Potentials Laboratory (1979-present). Research projects: Development and improvement of techniques for recording and analyzing Auditory, Visual and Somatosensory Sensory and Cognitive Evoked Potentials. Evoked Potentials generators. Single-trial Evoked Potentials. Clinical Applications of Evoked Potentials. Neurophysiology of Speech and Language. Auditory Object Definition. Clinical work: Consultation to the departments of Ear, Nose and Throat and Neurology of Benei Zion (Rothschild) Medical Center, Rambam Medical Center and Carmel Hospital, departments of Neurology at the Naharia, Zefat and Afula regional medical centers. Joint projects with the department of Ear, Nose and Throat and of Neurology, Benei Zion (Rothschild) Medical Center and departments of Ear, Nose and Throat and of Neurosurgery, Rambam Medical Center.

University of California, Irvine, Department of Neurology, on sabbatical from Technion, Israel Institute of Technology (1986-1987). Co worker: Prof. A. Starr. Research projects: Cognitive components of evoked potentials in relation to memorization and retrieval from memory. The effects of aging and memory deficits on the cognitive components of visual and auditory evoked potentials in a memory-scanning task. The effects of temporal lobectomy on the cognitive components of auditory and visual evoked potentials in target detection and in memory-scanning. Surface distribution mapping of long-latency evoked potentials. Clinical work: Evoked Potentials section of the University of California, Irvine Memory Clinic.

Temple University School of Medicine, Department of Audiology and Auditory Research, Philadelphia, Pennsylvania, on leave of absence from Technion, Israel Institue of Technology (1990-1991, 1994). Co worker: Dr. W. H. Martin. Research projects: Statistical methods to detemine waveform quality and to compare waveforms. Human auditory nerve activity and it's relation to surface recorded auditory evoked potentials. Tinnitus. Clinical work: Intraoperative monitoring. Special consultant to Hospital of the University of Pennsylvania (HUP) on intraoperative neurodiagnostics.

University of California, Irvine, Department of Neurology, on partial sabbaticals from Technion, Israel Institute of Technology (2000-2005). Co workers: Prof. A. Starr, Dr. Henry Michalewsk and Dr. Edward Golob. Research projects: Transcranial magnetic stimulation to study time course of task-related human motor cortex excitability. Movement-related brain potentials in humans. Evoked potentials in an auditory cued attention task. Evoked potentials in cochlear implantees. Auditory Neuropathy. Central Hearing Loss.

Advanced studies abroad

Postdoctoral research at the University of California, Irvine, Department of Neurology (1977-1979).

Sabbatical at the University of California, Irvine, Department of Neurology (1986-1987).

Visiting Associate Professor at the University of California, Irvine, Human Evoked Potentials Laboratory (1988).

Visiting Associate Professor at Temple University School of Medicine, Garfield Auditory Research Laboratory (1990-1991).

Visiting Scholar at Temple University School of Medicine, Garfield Auditory Research Laboratory (1994).

Visiting Professor at the University of California, Irvine, Human Evoked Potentials Laboratory (2000-2003).

Membership in societies

1. International Electric Response Audiometry Study Group.
2. International Electroencephalography and Clinical Neurophysiology Society.
3. Collegium Oto-Rhino-Laryngologicum Amicitiae Sacrum.
4. International Psychophysiology Society.
5. American Society of Neurophysiological Monitoring.
6. The New York Academy of Sciences.
7. Israel Physiological and Pharmacological Society.
8. Israel Society for Clinical Neurophysiology (president).
9. Israel Society for Neuroscience.
10. Israel Ergonomics Society.
11. Israeli Eye Research Society.
12. Israel Medical Association, Society of Occupational Physicians (hon.).
13. Israel Society for Auditory Research.
14. Israeli Biological Psychiatry Society.
15. Israeli Society for Tele-Medicine

Current public proffessional activities:

1. Member of the executive committee of the Israel Society for Clinical Neurophysiology (1983-present).
2. President of the Israeli Society for Clinical Neurophysiology (1993-present).
3. Member of the executive committee of the Israel Society for Auditory Research (1993-present).
4. President of the Israel Society for Auditory Research (2003-present).
5. Member of the executive committee of the Israel Society for Neuro-Otology (1999-present).
6. Member of the executive council of the International Evoked Response Audiometry Study Group (1995-present).
7. Member of the council of the International Federation of Clinical Neurophysiology (1993-present).
8. Member of the joint Hebrew Language Academy and Technion Committee on Technological Terminology (2001 present)
9. Member of the scientific advisory council of the National Institute for Psychobiology in Israel (2002-present).

Refferee for journals :

1. Clinical Neurophysiology (Consulting Editor).
2. Audiology (Member of International Editorial Board).
3. British Journal of Audiology (Member of International Editorial Board).
4. Psychophysiology.
5. Science.
6. IEEE Transactions on Biomedical Engineering.
7. Acta Paediatrica Scandinavica.
8. Brain and Cognition.
9. Brain and Language.
10. Journal of Experimental Psychology: Learning, Memory and Cognition.
11. Medical & Biological Engineering & Computing.
12. Hearing Research.
13. Ear and Hearing
14. International Journal of Psychophysiology.
15. Journal of the Association for Research in Otolaryngology
16. Audiology & Neuro-Otology

17. International Journal of Audiology
18. Cognitive Brain Research
19. The American Journal of Physiology
20. NeuroImage
21. Neurophysiologie Clinique / Clinical Neurophysiology
22. Brain Aging (Member of International Editorial Board).
23. Perceptual and Motor Skills
24. Brain Research
25. Neurology
26. Neurophysiology
27. Journal of Neurolinguistics
28. Biological Psychology
29. Psychiatry Research
30. Physiology & Behavior
31. Neuroscience Letters
32. Clinical Neurology and Neurosurgery

Awards and fellowships :

Outstanding Neurobiology Graduate Student award of the Hebrew University - Hadassah Medical School (1973).

Postdoctoral Research Fellowship from the United States National Institute of Neurological and Communicative Disorders and Stroke (1978-1979).

Career Development Award for Young Scientist from the Barecha Foundation (1979-1982) .

Otto Barth Chair in Biomedical Science (2003-present).

Courses currently taught

Introduction to Sensory Systems (Technion course #277006)

Integrative Aspects of Brain Structure and Function (Technion course #278440)

Short Latency Evoked Potentials (Technion course #278302)

Evoked Potentials and Behavior (Technion course #278303)

Graduate students

Already Graduated :

1. Ben-Yitzhak (Berliner) Esther, M.Sc. from Technion 1982.
Thesis title: Electrophysiological Correlates of the Effects of Noise on the Auditory System in a Noise Exposed Population.

2. Dotan Yosi, M.Sc. from Technion 1982.
Thesis title: Intrasubject Measurement of Changes in the Positive Late Component of the Cerebral Evoked Potentials. The Development of the Method and Examination of its Applicability to Clinical Tests of Changes in Pain Sensation.

3. Attias Yosi, M.Sc. from Technion 1982.
Thesis title: Electrophysiological Follow-up Examinations and Exploration of Susceptibility Indices in Subjects Exposed to Occupational Hazardous Noise.

4. Hornung Shmuel, M.Sc. from Tel-Aviv University 1983.
Thesis title: Daily Rhythmal Variation of Noise Induced Temporary Threshold Shift as Measured by Brain Stem Evoked Response.

5. Turbahn (Brodsky) Gallit, M.Sc. from Tel-Aviv University 1984.
Thesis title: Auditory Evoked Potentials in Hemodialysis Patients.

6. Urbach Doron, M.Sc. from Technion 1984 (co-instructor with Dr. M. Gur).
Thesis title: Application of Signal Analysis Techniques for Visual Evoked Potentials Analysis.

7. Gillat Shlomo, M.Sc. from Technion 1985 (co-instructor with Dr. M. Gur).
Thesis title: Application of a Time Varying Filter for Visual Evoked Potentials Analysis.

8. Hafner Hava, M.Sc. from Technion 1986 (co-instructor with Dr. Z. Joachims).
Thesis title: Brain Stem Potentials and Efficacy of Middle Ear Ventilation.

9. Kaminer (Hazon) Margalit, M.Sc. from Technion 1986.
Thesis title: Three-Channel Lissajous' Trajectory of the Auditory Brainstem Evoked Potentials to Specific Frequency Bands.

10. Feingold Keren, M.Sc. from Technion 1986.
Thesis title: Models of the Generators of Auditory Brainstem Evoked Potentials.

11. Nativ Avinoam, Ph.D. from University of Waterloo, Canada, 1987.
Thesis title: Left-Handedness and Subcortical Dominance: An Evoked Potential Investigation.

12. Lamm Oren, D.Sc. from Technion 1987 (co-instructor with Prof. D. Gopher).
Thesis title: The Amplitude of the P300 Component of the Brain Evoked Potentials as a Measure of a Documentation Process in Memory.

13. Erez (Huberman) Aliza, M.Sc. from Technion, 1988.
Thesis title: Evoked Potentials to Verbal Stimui in Dyslexic and Normally-Reading Children.

14. Binyamini Riva, M.Sc. from Technion, 1988.
Thesis title: Implementation of Software for Evoked Potential Processing on a Micro-Computer.

15. Attias Yosi, D.Sc. from Technion, 1989.
Thesis title: Event Related Potentials to Verbal and Semantic Stimuli: Description, Clinical Application and Generators Estimation.

16. Krupnik-Gottlieb Michal, D.Sc. from Technion, 1989.
Thesis title: Cognitive Processes Associated with Event-Related Potentials Evoked by Visual Stimuli.

17. Dwairy Marwan, D.Sc. from Technion, 1991.
Thesis title: Using Evoked Potentials to Measure Attention, Denial and Attentional Distraction of Repressives and Sensitizers During Anticipation of Physical Threat.

18. Barnea Anat, D.Sc. from Technion, 1991.
Thesis title: Evoked Potentials in Short-Term Memory Tasks of Dyslexic Children.

19. Chertcow Mark, M.Sc. from Technion (co-instructor with Prof. G. Inbar and Prof. I. Gath), 1991.
Thesis title: Processing of Electrical Cortical Signals During Voluntary Motor Tasks.

20. Alster Jason, M.Sc. from Technion (co-instructor with Prof. M. Feinsod), 1991.
Thesis title: Density Spectral Array, Evoked Potentials and Temperature Rhythms in the Evaluation of the Comatose Patient.

21. Zaaroor Menashe, D.Sc. from Technion (co-instructor with Prof. A. Starr), 1992.
Thesis title: The Role of Nuclei and/or Nerve Fibers as Generators of the Auditory Brainstem Evoked Potentials in Laboratory Animals.

22. Geva Amir, D.Sc. from Technion (co-instructor with Prof. Y. Zeevi), 1994.
Thesis title: Spatio-Temporal Source Estimation of Human Evoked Potentials.

23. Solliway Bernard, D.Sc. from Technion (co-instructor with Prof. S. Yannai), 1994.
Thesis title: Combined Toxicological and Electrophysiological Monitoring of Exposure to Metals.

24. Hafner Hava, D.Sc. from Technion, 1994.
Thesis title: Development and Maturation of the Auditory System Studied by Neonatal 3CLT.

25. Shapiro-Shpak Talma, M.Sc. from Tel-Aviv University, 1995.
Thesis title: The Utility of Predicting an Audiogram by Using Auditory Evoked Potentials in Normal Hearing Subjects and Hearing Impaired Subjects.

26. Berlad Iris, D.Sc. from Technion (co-instructor with Prof. P. Lavie), 1996.
Thesis title: Cognitive Activity During Sleep: Manifestation in Long-Latency Evoked Potentials.

27. Moisesko-Yiflah Rachel, M.Sc. from Tel Aviv University, 1997.
Thesis title: Late Auditory Evoked Potentials Among Dyslectics and Normal Readers.

28. Biernboim Smadar, Ph.D. from Haifa University (co-instructor with Dr. Z. Breznitz), 1997.
Thesis title: Automatic and Controlled Verbal Processing of Subjects with Frontal Lobe Damage.

29. Aharoni David, M.Sc. from Technion, 1997.

Thesis title: Spatial Frequency of Humen Scalp Recorded Potentials.

30. Liebenthal Einat, D.Sc. from Technion, 1997.
Thesis title: Human Auditory Cortex Electrophysiological Correlates of the Binaural Echo Suppression – Precedence Effect.

31. Lange Daniel, D.Sc. from Technion (co-instructor with Prof. G. Inbar), 1998.
Thesis title: Modeling and Estimation of Transient, Trial-Varying Evoked Brain Potentials.

32. Kissilev Pavel, M.Sc. from Technion (co-instructor with Prof. Y. Zeevi), 1998.
Thesis title: Detection and Processing of Single-Trial Evoked Potentials: A Non-Parametric Approach.

33. Rikkon Zameret, M.A. from Haifa University (co-instructor with Dr. N. Yussman), 1999.
Thesis title: Brain Potentials Recorded during Performance of Categorization Task in the Wisconsin Card Sorting Test (Adapted).

34. Ben-Kish Ruth, M.Sc. from Technion (co-instructor with Dr. A. Geva), 1999.
Thesis title: Combination of Magnetic Resonance Imaging (MRI) and Multi-Channel Evoked Potentials Techniques in Estimation of Scalp Electric Fields Sources in Humans.

35. Nahamoni Pnina, M.Sc. from Technion (co-instructor with Dr. A. Geva), 1999.
Thesis title: Characterization of Evoked Potentials (EPs) using Classification and Clustering Algorithms.

36. Kimhi Yoav, D.Sc. from Technion (co-instructor with Prof. Y. Zeevi), 2000.
Thesis title: Estimation of Single Trial Evoked Potentials by Adaptive Techniques.

37. Wollach Irit, M.Sc. from Technion, 2000.
Thesis title: Clarifying the Mode of Short Term Memory Encoding Using Evoked Potentials in a Memory Scanning Task with Distractions.

38. Levi-Alsberg Sigalit, M.Sc. from Tel Aviv University (co-instructor with Prof. M. Hildesheimer), 2000.
Thesis title: Recording the P300 Potential From Cochlear Implant Patients.

39. Henkin Yael, Ph.D. from Tel Aviv University (co-instructor with Prof. N. Gadoth), 2000.
Thesis title: Auditory Event-Related Potentials in Idiopathic Generalized Epilepsy of Childhood.

40. Putter Hannah, Ph.D. from Tel Aviv University (co-instructor with Prof. N. Gadoth), 2000
Thesis title: Event-Related Potentials During Auditory Perceptual Tasks in Learning Disabled Children.

41. Sarid Miri, Ph.D. from Haifa University (co-instructor with Dr. Z. Breznitz), 2001.
Thesis title: Brain Activity During Stages of Phonological and Orthographic Information Processing Using Behavioral and Electrophysiological (ERP) Measures: A Comparison of Dyslexic and Normal Children.

42. Bigman Zehava, D.Sc. from Technion, 2002.
Thesis title: Time Course of Category Induction: A Visual Event-Related Potential Study.

43. Engel-Yeger Batya, D.Sc. from Technion, 2002.
Thesis title: Hearing Impairments and Deafness due to Consanguinity: Genetic Factors and their Physiological and Clinical Expression.

44. Salmon-Mordkowitz Nirit, M.Sc. from Technion, 2002.
Thesis title: A Comparison of Sentence- and Discourse-Level Semantic Processing: An ERP Study.

45. Bendalak Keren, M.Sc. from Technion, 2003.
Thesis title: Automatic Audiogram Estimation by Electrophysiological Recordings.

46. Sinai Alon, Ph.D. from Technion, 2003.
Thesis title: Evoked Potentials in First and Second Language Processing: The Time Course of Linguistic Processing.

47. Horev Nitza, M.A. from Tel Aviv University, 2003.
Thesis title: Voicing Perception in Initial Stops and the Perception of a Corresponding Non-Speech Temporal Continuum: Behavioral and Electrophysiological Correlates.

48. Sandhaus Haggit, M.Sc. from Technion (co-instructor with Prof. Ron Meir), 2003.
Thesis title: Locating Activity Regions in the Brain using Methods of Source Separation.

49. Laufer Ilan, Ph.D. from Technion, 2004.
Thesis title: The Electrophysiology of Auditory Object Formation by Fusion of a Phonemic Element with a Preceding Stream.

50. Bedrik Larissa, M.Sc. from Technion (co-instructor with Prof. Isak Gath), 2005.

Thesis title: Classification of Acoustic Characteristics of Speech in Hebrew and English.

51. Porat-Cohen Sarit, M.D.-M.Sc. from Technion (co instructor with Dr. Michael Zibulewski), 2005.
Thesis title: Improvement of Spatial Resolution of Source Estimation of Brain Activity by Blind Source Separation.

52. Moisesko-Yiflah Rachel (Tzuf), Ph.D. from Technion, 2006.
Thesis title: Auditory Evoked Potentials Among Dyslexic Students.

53. Herbet-Grinfeld, Ph.D. from Technion (co-instructor with Prof. Moshe Gur), 2006.
Thesis title: Functional Magnetic Resonance Imaging (fMRI) and Event-Related Potentials: Complementary Approaches to Study Visual Object Recognition.

54. Carmeli Tomer, M.Sc. from Technion, (2006).
Thesis title: Using Phase Relation Analysis for Finding Physiological Correlates of Functional Connectivity During Memory Processes.

55. Hayman Guy, M.Sc. from Technion (coinstructor with Prof. Ariel Miller), (2006).
Thesis title: Characterization of the Neural Responses to Emotionally Loaded and Neutral Verbal Stimuli among Multiple Sclerosis Patients with Pseudobulbar Syndrome.

56. Binyamin Eran, M.Sc. from Technion, (2007).
Thesis title: Voice Analysis System Supporting an Electrophysiological Study of Word Production Initiated by Visual Stimuli.

56. Ofek Einat, M.D.-PhD. From Technion.
Thesis title: Characterization of the Neural Response to Subjectively Significant Verbal Stimuli Using Evoked Potentials.

57. Litvak Vladimir, Ph.D. from Technion.
Thesis title: Analysis of the Effects of Transcranial Magnetic Stimulation on Functional States and Connectivity of the Human Cerebral Cortex Using Electroencephalography.

58. Russo Or, M.Sc. from Technion (co-instructor with Prof. Zeev Arad), (2007).
Thesis tilte: Towards Directing Rat (Rattus Norvegicus) Movements using the Vibrisal System.

In Progress:

59. Fisher Revital, Ph.D. from Technion.
60. Dikovsky Larissa, M.Sc. from Technion (coinstructor with Prof. Miriam Reiner)
61. Meislish Dov, M.Sc. from Technion.
62. Shlomay Yotam, M.Sc. from Technion.
63. Ofir Shadmi, M.Sc. from Technion (co-instructor with Dr. Michael Wagner)
64. Irit Birnboim, M.Sc. from Technion (co-instructor with Prof. Miriam Reiner)
65. Dalal Abu Amneh, M.Sc. from Technion

M.D. Thesis instruction

1. Amin Hassan, M.D. from Technion 1984 (co-instructor with Dr. M. Goldsher).

Thesis title: Auditory Brainstem Evoked Potentials in Diabetics: Identification of Neural Transmission Impairment.

2. Aviram Netzer, M.D. from Technion 1985 (co-instructor with Dr. M. Goldsher).

Thesis title: Auditory Brainstem Evoked Potentials in Blast Injury.

3. Yitzchak Ramon, M.D. from Technion 1986 (co-instructor with Dr. M. Goldsher).

Thesis title: The Usefulness of Brainstem Auditory Evoked Potentials as a Tool for Diagnosis and Treatment of Hearing Impairment.

4. Yossef Mendel, M.D. from Hebrew University - Haddassah Medical School, Jerusalem 1990 (co-instructor with Prof. Dalia Cohen).

Thesis title: ERP as a Means of Confirming or Exposing Rules in the Response to Musical Elements.

5. Eyal Braun, M.D. from Technion 1995.

Thesis title: Short Latency Somatosensory Evoked Potentials in Octogenarians Following Median Nerve Stimulation in Healthy Adults.

Post - Doctoral fellows

1. Martin William Hal, Ph.D. from University of California, San Francisco.
2. Todrank Josephine, Ph.D. from University of Pennsylvania, Philadelphia.
3. Jin-Chuan Cheng, M.D., Ph.D. from the Institute of Oto-Rhino-Laryngology, PLA General Hospital, Beijing, China.
4. Sinai Alon, Ph.D. from Technion – Israel Institute of Technology.
5. Apfeld Irene, Ph.D. from Haifa University.
6. Laufer Ilan, Ph.D. from Technion – Israel Institute of Technology.

Basic sience training for physicians

1. Ben-David Jacob, M.D. (Oto-Rhino-Laryngology).
2. Peled Ron, M.D. (Neurology).
3. Wilder Avraham, M.D. (Oto-Rhino-Laryngology).
4. Bloch Dorit, M.D. (Neurology).
5. Kirsch Zvi, M.D. (Psychiatry).
6. Uri Nechama, M.D. (Oto-Rhino-Laryngology).
7. Hod Yair, M.D. (Ophthalmology).
8. Susel Zvi, M.D. (Neurology).
9. Zaaroor Menashe, M.D. (Neurosurgery).
10. Anteby Itzhak, M.D. (Oto-Rhino-Laryngology).
11. Holdstein Yehudah, M.D. (Oto-Rhino-Laryngology).
12. Sammet Alvin, M.D. (Oto-Rhino-Laryngology).
13. Ken-Dror Amira, M.D. (Pediatrics).
14. Raniel Yehudith, M.D. (Ophthalmology).
15. Statter Pioter, M.D. (Oto-Rhino-Laryngology).
16. Ruwashda Hanna, M.D. (Neurology).
17. Keren Offer, M.D. (Neurology).
18. Badarni Samih, M.D. (Neurology).
19. Heffer Zilla, M.D. (Oto-Rhino-Laryngology).
20. Bishara Lorette, M.D. (Oto-Rhino-Laryngology).
21. Marom Nahum, M.D. (Oto-Rhino-Laryngology).
22. Alexander Brodsky, M.D. (Oto-Rhino-Laryngology).
23. Vladimir Akinfayev, M.D. (Neurosurgery).

Participation in confereces by invitation

Member of the organizing committee, session chairman and speaker at the Fifth International Symposium of the International Electric Response Audiometry Study Group in Jerusalem, Israel (1977).

Invited member of the faculty at the Irvine Evoked Potential Workshop in Newport Beach, California (November,1978).

Invited lecturer at the Annual Meeting of the Western Society of EEG Technologists in Anaheim, California (February, 1979).

Member of the organizing committee and speaker at the First International Workshop on Evoked Potentials in Haifa, Israel (June, 1980).

Invited speaker at the Annual Meeting of the Israeli Society of Communication Clinicians in Tel-Aviv (April, 1981).

Invited Speaker at the Israel Ergonomics Society Meeting in Haifa (October, 1981).

Member of the organizing commitee and speaker at the Second International Evoked Potentials Workshop in Haifa, Israel (April, 1982).

Invited speaker at the Meeting of the Israeli Society of Electroencephalography and Clinical Neurophysiology in Jerusalem (April, 1982).

Invited member of the faculty at the University of California, Irvine, Evoked Potential Workshop, Newport Beach, California (January, 1983).

Invited Speaker at the Special Advanced Seminar on Somatosensory Evoked Potentials, Newport Beach, California (January, 1983).

Invited speaker at the Itzhak Isac Wasserman Memorial Symposium on Auditory Brain Stem Responses, Tel-Aviv, Israel (May, 1983).

Member of the organizing commitee of the section on Sensory Physiology, and speaker at the Regional Meeting of the International Union of Physiological Sciences, Jerusalem, Israel (August, 1984).

Invited speaker at the International Symposium on Multimodality Evoked Potentials, Jerusalem, Israel (June, 1985).

Invited speaker at the Ninth International Electric Response Audiometry Study Group Symposium, Erlangen, W. Germany (September, 1985).

Invited co-chairman of a symposium on Computers in the Rehabilitation of Hearing and Cochlear Implants, Tel-Aviv, Israel (March, 1986).

Invited speaker and discussant at the International Congress on Brainstem Auditory Evoked Potentials, New York, New York (October, 1986).

Member of the faculty at the University of California, Irvine Evoked Potentials Workshop (February 1987).

Session chairman and speaker at the 10th Biennial International Symposium of the International Electric Response Audiometry Study Group, Charlottesville, Virginia (August, 1987).

Session co-chairman and speaker at the 19th International Congress of Audiology, Jerusalem, Israel (June 1988).

Member of the organizing committe and faculty of the First Israeli Clinical Neurophysiology Course and Workshop, Maale HaHamisha, Israel (February 1989).

Session chairman and speaker at the 11th Biennial International Symposium of the International Electric Response Audiometry Study Group, Tokyo, Japan (September 1989).

Member of the organizing committee, speaker and presentations at the Meeting of the Israeli Society of Electroencephalography and Clinical Neurophysiology, Jerusalem, Israel (November 1989).

Member of the organizing committee and speaker at the Updates on Behavioral Biology Symposium, Haifa, Israel (April 1990).

Invited lecture at the Hearing and Chemical Senses Seminars, Kresge Hearing Research Institute, University of Michigan, Ann Arbor, Michigan (May 1991).

Invited speaker at the University of Pittsburgh Otoneurology Update: Objective Diagnostic and Monitoring Methods, Pittsburgh, Pennsylvania (June 1991).

Member of the organizing committee, speaker and presentations at the Meeting of the Israeli Society of Electroencephalography and Clinical Neurophysiology, Jerusalem, Israel (November 1991).

Member of the organizing committee, invited lecture, workshop, session chairman and presentations at the IX International Congress of Electromyography and Clinical Neurophysiology, Jerusalem, Israel (June 1992).

Invited lecture at the Israeli Society of Biological Psychiatry, Tel Aviv, Israel (November 1992).

Session chairman and presentations at the First Israeli Neuroscience Meeting, Eilat, Israel (December 1992).

Invited workshop, presentations and session chairman at the XIII International Congress of EEG and Clinical Neurophysiology, Vancouver, B.C. (August 1993).

Session chairman at the 13th International Congress of the International Electric Response Audiometry Study Group, Park City, Utah (September 1993).

Member of the organizing committee of the First Meeting of the Israel Society for Auditory Research, Tel Aviv, Israel (September 1993).

Member of the organizing committee of the Meeting of the Israeli Society of Clinical Neurophysiology, Jerusalem, Israel (October 1993).

Invited speaker at the Bat-Sheva Seminar on Functional Brain Imaging, Tel-Aviv, Israel (June 1994).

Session chairman and presentations at the Third Israeli Neuroscience Meeting, Eilat, Israel (December 1994).

Organizer, session chairman and presentations at the Annual Scientific Meeting of the Israeli Society for Clinical Neurophysiology, Tel-Aviv, Israel (February 1995).

Invited speaker and session chairman at the Bat-Sheva Seminar on Advances in Processing and Pattern Analysis of Biological Signals. Haifa, Israel (March 1995).

Organizer of the Meeting of the Israeli Society for Clinical Neurophysiology, Israel Medical Week, Tel-Aviv, Israel (September 1995).

Invited workshop, presentations and session chairman at the X International Congress of EMG and Clinical Neurophysiology. Kyoto, Japan (October 1995).

Session chairman and presenations at the Fourth Israeli Neuroscience Meeting, Eilat, Israel (December 1995).

Organizer, presentations and session chairman at the Annual Scientific Meeting of the Israeli Society for Clinical Neurophysiology, Tel-Aviv, Israel (February 1996).

Session chairman and presenatations at the 4th Meeting of the Israel Society for Auditory Research. Tel-Aviv, Israel (October 1996).

Session chairman and presentations at the Fifth Israeli Neuroscience Meeting, Eilat, Israel (December 1996).

Session chairman and presentations at the Annual Scientific Meeting of the Israeli Society for Clinical Neurophysiology, Jerusalem, Israel (February 1997).

Invited lecture and session chairman, Member of organizing committee of the XXIV Ordinary Congress of the Neurootological and Equilibriometric Society, Haifa, Israel (April 1997).

Session chairman and presentations at the 15th International Congress of the International Electric Response Audiometry Study Group, Memphis, Tennessee (June 1997).

Invited workshop, presentations and session chairman at the XIV International Congress of EEG and Clinical Neurophysiology, Florence, Italy (August 1997).

Session chairman at the 5th meeting of the Israel Society for Auditory Research, Tel-Aviv, Israel (October 1997).

Organizer, session chairman and presentations at the Annual Scientific Meeting of the Israeli Society for Clinical Neurophysiology, Tel-Aviv, Israel (December 1997).

Invited speaker at the Sixth Annual Meeting of the Israel Branch of The International Dyslexia Association, Raanana, Israel (December 1997).

Invited workshop at the Fourth Annual Meeting of the Israel Society for Biological Psychiatry, Kfar Giladi, Israel (March 1998).

Presentations at the The Third International Symposium on Otology and Audiology, Amman, Jordan (May, 1998).

Presentation and session chairman at the Third Biennial International Symposium on Modern Problems of Physiology and Pathology of Hearing, Moscow, Russia (June, 1998).

Session chairman at the Joint Conference of European Commission Concerted Action on Protection Against Noise (PAN) and the Israel Society for Auditory Research, Tel-Aviv, Israel (October 1998).

Session chairman and presentations at the Seventh Israeli Neuroscience Meeting, Eilat, Israel (December 1998).

Organizer and presentations at the Annual Scientific Meeting of the Israeli Society for Clinical Neurophysiology, Tel-Aviv, Israel (February 1999).

Session chairman and presentations at the 16th International Congress of the International Electric Response Audiometry Study Group, Tromso, Norway (May 1999).

Session Chairman and presentations at the 6th meeting of the Israel Society for Auditory Research, Tel-Aviv, Israel (October 1999).

Session chairman and invited lecture at the Symposium on Electrophysiology of Hearing, Ljubljana, Slovenia (October 1999).

Session chairman and presentations at the Eighth Israeli Neuroscience Meeting, Eilat, Israel (November 1999).

Session chairman at the first International Conference on Newborn Hearing Screening, Diagnosis and Intervention, Milan, Italy (October 2000).

Session chairman at the 7th meeting of the Israel Society for Auditory Research, Tel-Aviv, Israel (October 2000).

Session chairman and presentations at the Ninth Israeli Neuroscience Meeting, Eilat, Israel (December 2000).

Invited speaker at the Haifa Interdisciplinary Research Center for Advanced Computer Science Workshop on

Computational/Mathematical Problems (and Solutions?) Arising from Neurophysiology, Haifa, Israel (January 2001).

Invited presentation at the XV International Congress of Clinical Neurophysiology, Buenos Aires, Argentina (May 2001).

Session chairman, speaker and organizer of the Annual Scientific Meeting of the Israeli Society for Clinical Neurophysiology, Tel-Aviv, Israel (September 2001).

Session chairman at the 8th meeting of the Israel Society for Auditory Research, Tel-Aviv, Israel (October 2001).

Session chairman and presentations at the Tenth Israeli Neuroscience Meeting, Eilat, Israel (December 2001).

Member of the Steering Committee and presentations at the 2nd International Conference on Newborn Hearing Screening Diagnosis and Intervention, Villa Erba (Como), Italy (May 2002).

Invited course, chairman of 2 sessions at the 11th European Congress of Clinical Neurophysiology, Barcelona, Spain (August 2002).

Session chairman at the 9th meeting of the Israel Society for Auditory Research, Tel-Aviv, Israel (October 2002).

Session chairman and presentations at the 18th International Congress of the International Electric Response Audiometry Study Group, Puerto de la Cruz, Canary Islands (June 2003).

Session chairman at the 10th meeting of the Israel Society for Auditory Research, Tel-Aviv, Israel (October 2003).

Session chairman and presentations at the Twelfth Israeli Neuroscience Meeting, Eilat, Israel (December 2003).

Session chairman and presentations at the 3rd International Conference on Newborn Hearing Screening Diagnosis and Intervention, Villa Erba (Como), Italy (May 2004).

Member of the International Organizing Committee and invited speaker at the 8th International Evoked Potentials Symposium, Fukuoka, Japan (October 2004).

Organizer of the 11th meeting of the Israel Society for Auditory Research, Tel-Aviv, Israel (October 2004).

Session chairman and presentations at the Thirteenth Israeli Neuroscience Meeting, Eilat, Israel (December 2004).

Invited speaker and panel member at the 19th International Evoked Response Audiometry Study Group Symposium , Havana, Cuba (June 2005).

Organizer of the 12th meeting of the Israel Society for Auditory Research, Tel-Aviv, Israel (October 2005).

Session chairman and presentations at the Fourteenth Israeli Neuroscience Meeting, Eilat, Israel (December 2005).

Invited speaker at the 1st Rupin Conference on Engineering in Clinical Practice: Advanced Diagnostic Methods, Challenges at the Beginning of the 21st Century, Rupin Academic Center, Israel (April 2006).

Organizer of the 13th meeting of the Israel Society for Auditory Research, Tel-Aviv, Israel (October 2006).

Session chairman and presentations at the Fifteenth Israeli Neuroscience Meeting, Eilat, Israel (December 2006).

Publications :

Thesis :

1. Pratt,H.: Psychophysical and Electrophysiological Correlations in the Auditory System of Man. Submitted to the Senate of the Hebrew University, Jerusalem, Israel, for the degree of Doctor of Philosophy (1977).

In Peer-Reviewed journals

1. Sohmer,H., Pratt,H., Feinmesser,M.: Electrocochleography or Evoked Cortical Response - Which is Preferable in Diagnosis of Hearing Loss? Revue de Laryngologie 95:515-522 (1974).

2. Sohmer,H., Pratt,H.: Electrocochleography During Noise-Induced Temporary Threshold Shifts. Audiology 14:130-134 (1975).

3. Sohmer,H., Pratt,H.: Recording of the Cochlear Microphonic Potential with Surface Electrodes. Electroenceph. clin. Neurophysiol. 40:253-260 (1976).

4. Pratt,H., Sohmer,H.: Intensity and Rate Functions of Cochlear and Brainstem Evoked Responses to Click Stimuli in Man. Arch. Oto Laryngol. 212:85-92 (1976).

5. Sohmer,H., Pratt,H.: Identification and Separation of the Frequency Following Responses (FFR) in Man. Electroenceph. clin. Neurophysiol. 42:493-500 (1977).

6. Sohmer,H., Pratt,H., Kinarti,R.: Sources of Frequency Following Responses (FFR) in Man. Electroenceph. clin.

Neurophysiol. 42:656-665 (1977).

7. Pratt,H., Sohmer,H.: Correlations Between Psychophysical Magnitude Estimates and Simultaneously Obtained Evoked Auditory Nerve, Brain Stem and Cortical Responses to Click Stimuli in Man. Electroenceph. clin. Neurophysiol. 43:802-812 (1977).

8. Pratt,H., Sohmer,H., Barazani,N.: Surface Recorded Cochlear Microphonic Potentials (CM) During Temporary Threshold Shifts (TTS) in Man. Audiology 17:285-292 (1978).

9. Pratt,H., Sohmer,H.: Comparison of Hearing Threshold Determined by Auditory Pathway Electrical Responses and by Behavioural Responses. Audiology 17:285-292 (1978).

10. Pratt,H., Amlie,R.N., Starr,A.: Short Latency Mechanically Evoked Somatosensory Potentials in Humans. Electroenceph. clin. Neurophysiol. 47:524-531 (1979).

11. Pratt,H., Starr,A., Amlie,R.N., Politoske,D.: Mechanically and Electrically Evoked Somatosensory Potentials in Normal Humans. Neurology (Minneap.) 29:1236-1244 (1979).

12. Pratt,H., Politoske, D., Starr,A.: Mechanically and Electrically Evoked Somatosensory Potentials in Humans: Effects of Stimulus Presentation Rate. Electroenceph. clin. Neurophysiol. 49:240 249 (1980).

13. Pratt,H.: Short Latency Evoked Potentials: An Effective Diagnostic Tool for the Functional Evaluation of Sensory and Neural Systems. Journ. Israel Med. Assoc. 99:26-27 (1980).

14. Pratt,H., Ben-David,Y., Peled,R., Podoshin,L., Sharf,B.: Auditory Brainstem Evoked Potentials: Clinical Promise of Increasing Stimulus Rate. Electroenceph. clin. Neurophysiol. 51:80-90 (1981).

15. Vaziri,N.D., Pratt,H., Saiki,T., Starr,A.: Evaluation of Somatosensory Pathway by Short Latency Evoked Potentials in End Stage Renal Disease. Int. Journ. Artific. Organs 4:17-22 (1981).

16. Pratt,H., Amlie,R.N., Starr,A.: Short Latency Mechanically Evoked Peripheral Nerve and Somatosensory Potentials in Newborn Infants. Ped. Res. 15:295-298 (1981).

17. Pratt,H., Starr,A.: Mechanically and Electrically Evoked Somatosensory Potentials in Humans: Scalp and Neck Distributions of Short Latency Components. Electroenceph. clin. Neurophysiol. 51:138-147 (1981).

18. Pratt,H.: Evoked Potentials in the Operating Room: Three Examples Using Three Sensory Modalities. Israel Journ. Med. Sci. 17:460-464 (1981).

19. Pratt,H., Bleich,N.: Auditory Brain Stem Potentials Evoked by Clicks in Notch-Filtered Masking Noise. Electroenceph. clin. Neurophysiol. 53:417-426 (1982).

20. Pratt,H., Rogowski,Z., Bental,E.: Analog Delay Line Artifact Rejector for Evoked Potential Studies. Electroenceph. clin. Neurophysiol. 53:565-567 (1982).

21. Starr,A., Pratt,H., Burke,D.: Natural Stimuli Evoking Somatosensory Potentials. Ann. N.Y. Acad. Sci. 338:702-706 (1982).

22. Pratt,H., Bleich,N., Berliner,E.: Short Latency Visual Evoked Potentials in Man. Electroenceph. clin. Neurophysiol. 54:55-62 (1982).

23. Peled,R., Pratt,H., Scharf,B., Lavie,P.: Auditory Brainstem Evoked Potentials During Sleep Apnea. Neurology (Cleveland) 33:419-423 (1983).

24. Dagan,D., Pratt,H., Margolin,Y.: Post Activity Effects in Mechanoreceptor Afferents of the Cockroach. Journ. Comp. Physiol. A 150:121-127 (1983).

25. Pratt,H., Har'el,Z., Golos,E.: Three Channel Lissajous' Trajectory of Human Auditory Brain-stem Evoked Potentials. Electroenceph. clin. Neurophysiol. 56:682-688 (1983).

26. Haim,A., Heth,G., Pratt,H., Nevo,E.: Photoperiodic Effects on Thermoregulation in a "Blind" Subterranean Mammal. Journ. Exp. Biol. 107:59-64 (1983).

27. Lavie,P., Pratt,H., Scharf,B., Peled,R., Brown,J.: Localized Pontine Lesion : Near Total Absence of REM Sleep. Neurology (Cleveland) 34:118-120 (1984).

28. Har'el,Z., Pratt,H.: Geometric Analysis of Short Latency Evoked Potentials. Mathematical Biosciences 69:1-10 (1984).

29. Uri,N., Schuchman,G., Pratt.H.: Auditory Brain Stem Evoked Potentials in Bell's Palsy. Arch. Otolaryngol. 110:301-304 (1984).

30. Pratt,H., Ben-Yitzhak,E., Attias,J.: Auditory Brain Stem Potentials Evoked by Clicks in Notch-Filtered Masking Noise: Audiological Relevance. Audiology 23:380-387 (1984).

31. Pratt,H., Schacham,S., Barak,S.: A Pattern Reversal Stimulator Using Optical Fibers. Electroenceph. clin. Neurophysiol. 59:172-174 (1984).

32. Pratt,H., Har'El,Z., Golos,E.: Geometrical Analysis of Human Three Channel Lissajous' Trajectory of Auditory Brainstem Evoked Potentials. Electroenceph. clin. Neurophysiol. 58:83-88 (1984).

33. Attias,J., Pratt,H.: Auditory Evoked Potentials and Audiological Follow-Up of Subjects Developing Noise-Induced Permanent Threshold Shift. Audiology 23:498-508 (1984).

34. Pratt,H., Peled,R., Scharf,B., Lavie,P.: Auditory Middle Latency Evoked Potentials During Sleep Apnea. Israel Journ. Med. Sci. 20:593-597 (1984).

35. Babkoff,H., Pratt,H., Kempinski,D.: ABEP Latency-Intensity Functions: A Corrective Algorithm. Hearing Res. 16:243-249 (1984).

36. Cohen,L.G., Starr,A., Pratt,H.: Cerebral Somatosensory Potentials Evoked by Muscle Stretch, Cutaneous Taps and Electrical Stimulation of Peripheral Nerves in Lower Extremity in Humans. Brain. 108:103-121 (1985).

37. Lamm,O., Pratt,H.: Sub-Clinical Effects of Exposure to Inorganic Mercury Revealed by Somatosensory Evoked Potentials. Eur. Neurol. 24:237-243 (1985).

38. Attias,J., Pratt,H.: Auditory Evoked Potentials Correlates of Susceptibility to Noise-Induced Hearing Loss. Audiology 24:149 156 (1985).

39. Pratt,H., Shenhav,R., Goldsher,M.: Applications of Auditory Evoked Potentials to Evaluate Hearing Disorders: Assets and Limitations. Israel Journ. Med. Sci. 21:44-49 (1985).

40. Schacham,S.E., Pratt,H.: Detection and Measurement of Steady-State Evoked Potentials in Real-Time Using a Lock-In Amplifier. Journ. Neurosurg. 62:935-938 (1985).

41. Pratt,H., Goldsher,M., Netzer,A., Shenhav,R.: Auditory Brainstem Evoked Potentials in Blast Injury. Audiology 24:297-304 (1985).

42. Pratt,H., Bleich,N., Martin,W.H.: Three-Channel Lissajous' Trajectory of Human Auditory Brainstem Evoked Potentials: I. Normative Measures. Electroenceph. clin. Neurophysiol. 61:530 538 (1985).

43. Pratt,H., Brodsky,G., Goldsher,M., Ben-David,Y., Harari,R., Podoshin,L., Eliachar,I., Grushka,E., Better,O., Garty,J.: Auditory Brain-stem Evoked Potentials in Patients Undergoing Dialysis. Electroenceph. clin. Neurophysiol. 63:18-24 (1986).

44. Martin,W.H., Pratt,H., Bleich,N.: Three-Channel Lissajous' Trajectory of Human Auditory Brainstem Evoked Potentials: II. Effects of Click Intensity. Electroenceph. clin. Neurophysiol. 63:54-61 (1986).

45. Holdstein,Y., Pratt,H., Goldsher,M., Rosen,G., Shenhav,R., Linn,S., Mor,A., Barkai,A.: Auditory Brainstem Evoked Potentials in Asymptomatic Lead Exposed Subjects. Journ. Laryngol. Otol. 100:1031-1036 (1986).

46. Ben-David,Y., Pratt,H., Landman,L., Fradis,M., Podoshin,L., Yeshurun,D.: A Comparison of Auditory Brainstem Evoked Potentials in Hyperlipidemics and Normolipemic Subjects. Laryngoscope. 96:186-189 (1986).

47. Pratt,H., Bleich,N., Martin,W.H.: Three-Channel Lissajous' Trajectory of Human Auditory Brain-Stem Evoked Potentials: III. Effects of Click Rate. Electroenceph. clin. Neurophysiol. 63:438-444 (1986).

48. Pratt,H., Cohen,L., Bleich,N., Starr,A.: Somatosensory Evoked Potentials to Muscle Percussion in Humans: Upper Extremity. Isr. Journ. Med. Sci. 22:1-7 (1986).

49. Attias,J., Pratt,H.: Follow-up of Auditory Evoked Potentials and Temporary Threshold Shift in Subjects Developing Noise Induced Permanent Hearing Loss. Audiology 25:116-123 (1986).

50. Urbach,D., Pratt,H.: Application of Finite Impulse Response Digital Filters to Auditory Brain-Stem Evoked Potentials. Electroenceph. clin. Neurophysiol. 64:269-273 (1986).

51. Pratt,H., Bleich,N., Har'El,Z., Golos,E.: Three-Channel Lissajous' Trajectory of the Human Short Latency Visual Evoked Potentials. Int. Journ. Bio-Med. Comp. 18:249-256 (1986).

52. Hassan,A., Goldsher,M., Pratt,H., Kanter,Y., Joachims,Z.: Auditory Brainstem Evoked Potentials in Diabetic Patients With and Without Peripheral Neuropathy. Journ. Israel Med. Assoc. 110:113-117 (1986).

53. Pratt,H., Har'El,Z., Golos,E.: Geometrical Principal Component Analysis of Planar-Segments of the Three-Channel

Lissajous' Trajectory of Human Auditory Brain Stem Evoked Potentials. Int. Journ. Bio-Med. Comp. 18:239-248 (1986).

54. Goldsher,M., Pratt,H., Hassan,A., Shenhav,R., Eliachar,I., Kanter,Y.: Auditory Brainstem Evoked Potentials in Insulin Dependent Diabetics With and Without Peripheral Neuropathy. Acta Oto Laryngol.102:204-208 (1986).

55. Hod,Y., Pratt,H., Schacham,S.E.: Comparison of Fiber Optical and Video Monitor Stimulators in Normals and Multiple Sclerosis Patients. Electroenceph. clin. Neurophysiol. 64:411-416 (1986).

56. Urbach,D., Gur,M., Pratt,H., Peled,R.: Time Domain Analysis of VEPs: Detection of Waveform Abnormalities in Multiple Sclerosis. Invest. Ophthalmol. Vis. Sci. 27:1379-1384 (1986).

57. Hafner,H., Anteby,I., Pratt,H., Goldsher,M., Shenhav,R., Joachims,H.Z.: Auditory Brainstem Evoked Potentials in Evaluating the Efficacy of Surgical Ventilation of the Middle Ear. Int. J. Ped. Otorhinolaryngol. 12:13-22 (1986).

58. Anteby,I., Hafner,H., Pratt,H., Uri,N.: Auditory Brainstem Evoked Potentials in Evaluating the Central Effects of Middle Ear Effusion. Int. J. Ped. Otorhinolaryngol. 12:1-11 (1986).

59. Podoshin,L., Ben-David,Y., Pratt,H., Fradis,M., Feiglin,H.: Non Invasive Recordings of Cochlear Evoked Potentials in Patients with Meniere's Disease. Arch. Otolaryngol. 112:827-829 (1986).

60. Ben-David,J., Gertner,R., Podoshin,L., Fradis,M., Pratt,H., Rabina,A.: Auditory Brain Stem Potentials in Patients Suffering from Peripheral Facial Nerve Palsy and Diabetes Mellitus. Journ. Laryngol. Otol. 100:629-633 (1986).

61. Wilder,A., Pratt,H., Rosen,G.: Auditory Brainstem Evoked Potentials in Sudden Deafness. Journ. Laryngol. Otol. 101:652-655 (1987).

62. Kaminer (Hazon),M., Pratt,H.: Three-Channel Lissajous' Trajectory of Auditory Brain-Stem Potentials Evoked by Specific Frequency Bands (Derived Responses). Electroenceph. clin. Neurophysiol. 66:167 174 (1987).

63. Ken-Dror,A., Pratt,H., Zeltzer,M., Sujov,P., Katzir,J., and Benderly,A.: Brain-Stem Auditory Evoked Potentials to Clicks at Different Presentation Rates: Estimating Maturation of Pre-Term and Full Term Neonates. Electroenceph. Clin. Neurophysiol. 68:209-218 (1987).

64. Fradis,M., Podoshin,L., Ben-David,J., Pratt,H., Sharf,B., Weller,B., Wajsbort,J., Zellinger,M.: Auditory Brainstem Evoked Potentials in Patients with Migraine. Headache 27:27-29 (1987).

65. Pratt,H., Martin,W.H., Bleich,N., Kaminer,M., Har'El,Z.: Application of the Three-Channel Lissajous Trajectory of Auditory Brainstem Evoked Potentials to the Question of Generators. Audiology 26:188 196 (1987).

66. Pratt,H., Bleich,N., Sussel,Z.: Three-Channel Lissajous Trajectories of Auditory Brainstem-Evoked Potentials in Patients with Neurological Lesions Affecting the Brainstem: Preliminary Impressions. Audiology 26:247-256 (1987).

67. Podoshin,L., Ben-David,J., Fradis,M., Pratt,H.: Brainstem Auditory Evoked Potentials with and without Increased Stimulus Rate as Diagnostic Tool in Brainstem Minor Transient Changes. ORL 49:287 293 (1987).

68. Podoshin,L., Ben-David,J., Fradis,M., Pratt,H.: Effect of Increased Stimulus Rate on Auditory Evoked Potentials. Journ. Israel Med. Assoc. 113:342-344 (1987).

69. Fradis,M., Samet,A., Ben-David,J., Podoshin,L., Sharf,B., Wajsbort,J., Zellinger,M., Pratt,H.: Brainstem Auditory Evoked Potentials to Different Stimulus Rates in Parkinsonian Patients. Europ. Neurol. 28:181-186 (1988).

70. Kohn,S., Fradis,M., Pratt,H., Zeidan,J., Podoshin,L., Robinson,E., Nir,Y.: Cisplatin Ototoxicity in Guinea Pigs with Special Reference to Toxic Effects in the Stria Vascularis. Laryngoscope. 98:865-871 (1988).

71. Raniel,Y., Pratt,H., Neumann,E., Schacham,S.: Miniature Fiber-Optic Pattern Reversal Stimulator for the Determination of VEP Threshold: Comparison with Snellen Acuity. Graef's Arch. Clin. Exp. Ophthalm. 227:212-215 (1989).

72. Pratt,H., Michalewski,H.J., Barrett,G., Starr,A.: Brain Potentials in a Memory-Scanning Task: I. Modality and Task Effects on Potentials to the Probes. Electroenceph. clin. Neurophysiol. 72:407-421 (1989).

73. Pratt,H., Michalewski,H.J., Patterson,J.V., Starr,A.: Brain Potentials in a Memory-Scanning Task: II. Effects of Aging on Potentials to the Probes. Electroenceph. clin. Neurophysiol. 72:507-517 (1989).

74. Pratt,H., Michalewski,H.J., Patterson,J.V., Starr,A.: Brain Potentials in a Memory-Scanning Task: III. Potentials to the Items Being Memorized. Electroenceph. clin. Neurophysiol. 73:41-51 (1989).

75. Fradis,M., Podoshin,L., Ben-David,J., Statter,P., Pratt,H., Nahir,M.: Brainstem Auditory Evoked Potentials with Increased Stimulus Rate in Patients Suffering from Systemic Lupus Erythematosus. Laryngoscope 99:325-329 (1989).

76. Pratt,H., Urbach,D., Bleich,N.: ABEP Peak Identification by Finite Impulse Response Digital Filters. Audiology 28:272-283 (1989).

77. Pratt,H., Bleich,N.: Effects of Click Polarity on Auditory Brain-Stem Potentials: A Three-Channel Lissajous' Trajectory Study. Hearing Res. 42:119-128 (1989).

78. Attias,J., Pratt,H.: Three-Channel Lissajous' Trajectories of Auditory Event-Related Potentials to Target Stimuli. Electroenceph. clin. Neurophysiol. 77:127-133 (1990).

79. Pratt,H., Bleich,N., Feingold,K.: Three-Channel Lissajous' Trajectories of Auditory Brainstem Evoked Potentials: Contribution of Fast and Slow Components to Planar Segment Formation. Hearing Res. 43:159-170 (1990).

80. Podoshin,L., Ben-David,Y., Fradis,M., Pratt,H., Sharf,B., Schwartz,M.: Brainstem Auditory Evoked Potential with Increased Stimulus Rate in Minor Head Trauma. Journ. Laryngol. Otol. 104:191-194 (1990).

81. Patterson,J.V., Pratt,H., Starr,A.: Event-Related Potential Correlates of the Serial Position Effect in Short-Term Memory. Electroenceph. clin. Neurophysiol. 78:424-437 (1991).

82. Hafner,H., Pratt,H., Joachims,Z., Feinsod,M. Blazer,S.: Development of Auditory Brainstem Evoked Potentials in Newborn Infants: A Three-Channel Lissajous' Trajectory Study. Hearing Res. 51:33-48 (1991).

83. Attias,Y., Pratt,H.: Application of Three Dimensional Analysis to the Auditory P300. Int. Journ. Neurosci. 58:95-103 (1991).

84. Heth,G., Frankenberg,E., Pratt,H., Nevo,E.: Seismic Communication in the Blind Subterranean Mole Rats: Patterns of Head Thumping and their Detection in the Spalax ehrenbergi Super Species in Israel. Journ. Zool. (Lond.) 224:633-638 (1991).

85. Nevo,E., Heth,G., Pratt,H.: Seismic Communication in a Blind Subterranean Mammal: A Major Somatosensory Mechanism in Adaptive Evolution Underground. Proc. Nat. Acad. Sci. (U.S.A.) 88:1256 1260 (1991).

86. Pratt,H., Zaaroor,M., Bleich,N., Starr,A.: Effects of Myelin or Cell Body Brainstem Lesions on 3-Channel Lissajous' Trajectories of Feline Auditory Brainstem Evoked Potentials. Hearing Res. 53:237 252 (1991).

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88. Starr,A., Pratt,H., Michalewski,H., Patterson,J., Barrett,G., Swire,F., Deecke,L., Cheyne,D., Kristova,R., Lininger,G.: Physiology of Short Term Verbal Memory. J. Neural Transm., Suppl. 33:7-12 (1991).

89. Gadoth,N., Gordon,C.R., Bleich,N., Pratt,H.: Three Modality Evoked Potentials in Charcot-Marie-Tooth Disease (HMSN-1). Brain & Develop. 13:91-94 (1991).

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94. Pratt,H., Martin,W.H., Schwegler,J.W., Rosenwasser,R.H., Rosenberg,S.I., Flamm,E.S.: Temporal Correspondence of Intracranial, Cochlear and Scalp-Recorded Human Auditory Nerve Action Potentials. Electroenceph. clin. Neurophysiol. 84:447-455 (1992).

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96. Alster,J., Pratt,H., Feinsod,M.: Density Spectral Array, Evoked Potentials, and Temperature Rhythms in the Evaluation and Prognosis of the Comatose Patient. Brain Injury 7:191-208 (1993).

97. Cohen,D., Granot,R., Pratt,H., Barnea,A.: Cognitive Meanings of Musical Elements as Disclosed by ERP and Verbal Experiments. Music Percept. 11:153-184 (1993).

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