CURRICULUM VITAE

NAME: Nachum Dafny, Ph.D.

PRESENT TITLE: Professor

ADDRESS: 6118 Yarwell

Houston, TX 77096

CITIZENSHIP: United States Naturalized Citizen

UNDERGRADUATE EDUCATION:

1959-1963: Bachelor of Science - B.Sc. (Major in Zoology, Minor in Chemistry and

Parasitology), Hebrew University, Jerusalem, Israel

GRADUATE EDUCATION:

1963-1965: Master of Science - M.Sc. (Major in Zoology, Physiology), Hadassah

Medical School, Hebrew University, Jerusalem, Israel

1965-1969: Doctor of Philosophy - Ph.D. (Physiology), Hadassah Medical School,

Neurology Department, Hebrew University, Jerusalem, Israel

POSTGRADUATE TRAINING:

1969-1970: Research Fellow, California Institute of Technology

(Cal-Tech), Department of Physiology, Biology Division

1970: Research Fellow, Brain Research Institute, Department of

Anatomy, UCLA, Los Angeles, California

1971-1972: Special Fellow, College of Physicians and Surgeons, Columbia

University, Department of Neurology, Parkinson's Disease Research

Center, New York, NY

ACADEMIC APPOINTMENTS:

1972-1975: Assistant Professor in Neurostructure and Function, The

University of Texas Medical School at Houston, Houston, TX

1973-present: Faculty member in The University of Texas Graduate School of

Biomedical Sciences (GSBS) at Houston, Texas Medical Center

1973-1980: Course Director, Medical Neuroscience, The University of Texas

Medical School at Houston, Houston, TX

1975-1978: Associate Professor with Tenure in Neurobiology, and

Anatomy, The University of Texas Medical School at Houston,

Houston, TX

1978-present: Professor of Neurobiology and Anatomy, The University of Texas

Medical School at Houston, Houston, TX

1995-present: Course Director, Medical Neuroscience, The University of Texas

Medical School at Houston, Houston, TX

PROFESSIONAL ORGANIZATIONS (AND COMMITTEES):

American Association of Anatomists

American Physiological Society

American Society for Pharmacology and Experimental Therapeutics

The New York Academy of Sciences

International Society of Neuroendocrinology

International Society of Neuroimmunomodulation

Society for Experimental Biology and Medicine, USA

Society for Neuroscience

HONORS AND AWARDS:

1965-1967	Predoctoral scholarships, Hebrew University, Jerusalem, Israel
1967-1968	Fellowship, Hadassah Medical School, Jerusalem, Israel
1969-1970	NSF Fellowship, California Institute of Technology (Cal-Tech),
	Pasadena, California
1970	Ford Foundation Fellow
1970-1971	NIH Postdoctoral Fellow, USPHS Grants NS05184 and 1-F02-
	NS47569-01
1971-1972	NIH Special Fellow, USPHS Grants NS47569
1975	American Men and Women in Science
1978	The Basic Sciences Teaching Award
1979	The Basic Sciences Teaching Award
1979	Fogarty International Senior Fellowships
1980-1981	Visiting Professor, Hadassah Medical School, Neurology
	Department, The Hebrew University of Jerusalem
1980-1981	Visiting Professor, Tel Aviv University Sackler School of Medicine,
	Department of Anatomy and Anthropology
1978-79,1981-82	Teaching Award in Neuroscience
1983	Best First-Year Teaching Award
1984	The Basic Sciences Teaching AwardFor Excellence in Teaching
1985	Personalities of The South Award
1985	Best Teaching in Neuroscience Award
1986	The Basic Sciences Teaching Award

1987	Best Teaching Award in Neuroscience
1987	Dean's List of Teaching Excellence (Graduate School)
1988	Dean's List of Teaching Excellence (Medical School)
1988	The Basic Sciences Teaching Award
1989	The Basic Sciences Teaching Award
1989	President List of Teaching Excellence
1990	Best Teacher in Neuroscience
1992	Teaching Award in Neuroanatomy - Neurology Residence - Osler
	Institute
1992	Oustanding Teaching in Neuroscience
1993	Best Teacher in Neurosciences
1995	GSBS Dean's Excellence Awards
1996	Best Teacher in Neurosciences
1997	Outstanding Faculty Award
1997	Dean's Teaching Excellence Award
1998	Dean's Teaching Excellence Award
1999	Dean's Teaching Excellence Award
2000	Dean's Teaching Excellence Award
2001	Dean's Teaching Excellence Award
2002	Dean's Teaching Excellence Award
2003	Dean's Teaching Excellence Award
2003	Best Course Director
2004	Dean's Teaching Excellence Award
2005	Dean's Master Teaching Award
2005	Nominated for John P. McGovern Award for outstanding teaching
2003-2005	Nominated for Presidential's Scholar Award for Teaching
2004-2005	Best Course Director
2006	Dean's Teaching Excellence Award
2005-2006	Best Course Director
2006	Visiting Proffesor Universidad Autonomica De Guadalajara Mexico
2007	Dean's Teaching Excellence Award
2007	Best Organized Course Director
2008	Best Organized Course Director
2008	Visiting Proffesor American Carribean University San Marrten
2009	Best Organized Course Director
2010	Dean's Teaching Excellence Award
2010	Best Organized Course Director
2011	Best Organized Course Director
2012	Best Organized Course Director and Best Teacher Neuroscience

SERVICE ON NATIONAL GRANT REVIEW PANELS, STUDY SECTIONS, COMMITTEES:

National Science Foundation (Ad hoc) March of Dimes (Ad hoc)

Veteran's Administration (Ad hoc)

Louisiana Education Quality Support Funds (Ad hoc)
International Science Foundation
John Sealy Memorial Endowment Fund for Biomedical Research
Swiss Federal Institute of Technology Zurich
Italian National Academy of Science
NIH Study Section
University of Puerto Rico

SERVICE ON UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON COMMITTEES:

1972-1977	Neuroscience Curriculum Committee, GSBS
1976-1979	Membership Committee, GSBS
1978-1980	Academic Standards Committee, GSBS
1979-1991	Human Values and Health, UTHSC
1987-1991	Scientific Review Committee, UTHSC
1992-1995	Intrafaculty Council Committee
1992-1995	Faculty Status, Rights & Responsibilities Committee, UTHSC
1992-1995	Governance and Academic Affairs
1998-2006	Senator Intrafaculty Council Committee (IFC)
1998-2006	Faculty Status, Rights and Responsibility Sub-Committee
1998-Present	Academic Standards Committee GSBS
1999-Present	IFC Representative to Student Intercouncil (SIC)
2001-2006	Human Resource Advisory Committee
2001-Present	Educational Computer Services Committee
2005-Present	Senate
2007	Senate Committee to evaluate the RVU (Chair)
2009	Promotion and Tenure Committee
2012	Promotion and Tenure Committee

SERVICE ON UNIVERSITY OF TEXAS MEDICAL SCHOOL AT HOUSTON COMMITTEES:

1972-1977	Neuroscience Curriculum Committee Coordinator and Director of Neuroscience Teaching Program (Neuroanatomy, Neurophysiology, Neuropharmacology, Neuroen- docrinology, Neurology, Neuropathology, Neurosensory Sciences, and Anesthesiology)
1973	Ad-hoc Committee to evaluate the need for an Anatomy Department.
1973-1976	Animal Care Committee
1973-1976	Neuroscience Course Director
1974	Search Committee for Faculty Appointments
1974-1975	Coordinator and Director of Neuroscience Seminars
1974-1978	Coordinator and Director, Weekly Interdepartmental and Interinstitutional Research Seminars

1974-1977	Curriculum Committee
1974-1977	Quarter Coordinator, Third Quarter
1975	Search Committee for Three Faculty
1976-1979	General Research Support Committee
1977	Search Committee for Two Faculty
1977	Subcommittee for the Organization and Administration of the Medical School for the Task Force Committee
1977-1978	Educational Policy Committee
1977-1980	Faculty Appointments, Promotions and Tenure Committee
1977-1980	Coordinator, Teaching, Neurobiology and Anatomy
1978-1980	Neuroanatomy and Neuroscience Course Director
1981-1982	Ad Hoc Committee for Internal Review of the Department of Psychi-
	atry and Behavioral Sciences
1982-Present	Faculty Advisor to Hillel Medical Center
1982-Present	Ad Hoc Committee for Full Professors Promotion and Tenure
1982-Present	Interviewer of Medical School candidates
1983	Search Committee for Four Faculty
1983-1986	Student Evaluations and Promotions Committee
1988	Committee on Committees
1991-1995	Senator, Medical School Senate
1991	Student Advisor to Five Medical Students
1992	Ad Hoc Committee to Examine Holiday and Vacation Policies
1992	Student Advisor to Five Medical Students
1993	Senate Subcommittee on Academic Scholarship
1993	Student Advisor to Four Medical Students
1994	Student Advisor to Four Medical Students
1994-Present	Facilitator in problem-based learning (PBL)
1994-Present	Course Director, Neuroscience
1994-Present	Curriculum Committee
1995-1998	Student Advisor to Four Medical Students
1995-Present	Master Advisor to 8 Medical Students
1996-Present	WWW Committee
1997-1999	PBL-The Neural Working Group Committee
1998-Present	Faculty Advisor to the Student Neurological Association
1998-Present	ECS Committee
2000	Faculty Representative Richmond College London, U.K. July 2000
2002-Present	Integrated Neuroscience/Clinical Neurology Subcommittee
2005-Present	Team Learning Committee
2006-Present	Medical School Senate
2007	Promotion and Tenure Sub-Committee
2008	Curriculum Committee
2011	Task Force to Review Student Evaluation

SERVICE TO THE COMMUNITY:

- 1. Advisor to the Hillel Medical Center Student Group
- 2. Coordinate Monthly Faculty Study Group
- 3. Member and Head of Adult Enrichment Committee of Congregation Brith Shalom
- 4. Religious Practice Committee Member of Congregation Brith Shalom
- 5. Board Member Congregation Brith Shalom
- 6. Member and Head of Adult Education of the Bureau of Jewish Education of the Jewish Federation of Houston
- 7. Board Member of the Bureau of Jewish Education of the Jewish Federation of Houston
- 8. Executive Committee Member of the Bureau of Jewish Education of the Jewish Federation of Houston
- Steering Committee of Organizing the Celebration of Israel 50 year Independent Day in Houston
- 10. President and Founder of the Hebrew Speaking Professional Organization
- 11. Vice President Congregation Brith Shalom
- 12. Meals on Wheels Volunteer

SPONSORSHIP OF CANDIDATES FOR GRADUATE DEGREE:

Serving on 33 committees for Master's and Doctoral degrees

Joseph Sarne / M.S. thesis, 1969, Hebrew University Medical School, Jerusalem, Effect of cortisol on hypothalamic islands.

Henry Wachtendorf / M.S. thesis, GSBS, 1973-1974, Morphine effects on sensory-evoked potentials

Larry Gonzales / Ph.D. dissertation, University of Houston, 1973-1975, Cocaine effect on limbic system.

Robert McClung / M.S. thesis, 1974-1975, Electrophysiological properties of the pineal body.

Cathy Schanzer / M.S. thesis, GSBS, 1975-1977, Gut hormones control appetite

Robert McClung / Ph.D. dissertation, 1975-1978, Evoked field potentials and single-unit recordings from naive and morphine-dependent rats

Eve Andersen / Ph.D. dissertation, GSBS, 1979-1982, An ascending serotonergic pain modulation system

William McVaugh / Ph.D. thesis, Interlukin mechanism 1987-1990

Carolyn Preston / M.D., Ph.D. thesis, Pain suppression mechanism 1988-1990

Patrick Dougherty / Ph.D. dissertation, Immune modulation GSBS, 1984-1988,

Anna Skogh / M.Sc. dissertation, Pain Modulation 1991-1992

John H. Casada / M.D., Ph.D., thesis, Mechanism of aggression1986-1992

Osvaldo Gayton / M.D., Ph.D., Psychostimulant and behavior 1993-1999

Pamela Yang / MPH thesis, Methylphenidate and pain 1997

Amini Behrang/ M.D., Ph.D., thesis, Psychostimulant circuity 2000

Pamela B. Yang/ Ph.D., Ritalin modulate behavior and evoked potentials 1999-2005

Tylithia L. Burks/ M.Sc., Methylphenidate modulate SHR activity 2004-2005

Kristal D. Atkins/ M.Sc., Ecstasy alter brain activity 2004-2007

Sumreen Ahmed/ M.Sc., Methylphendate alter evoked potentials 2006-2007

Ming Lee/ M.Sc., Prefrontal cortex lesion alter Ritalin effects 2007-2008

Sheshali Wanchoo/ M.Sc., Nucleus accumbence lesion alter methylphenidate properties 2008-2010

Caleb Robinson / Ph.D., 2011 to Present

Cathy Claussen / M. Sc., 2011 to Present

Zach Jones / M.Sc., 2012 to Present

SUMMER UNDERGRADUATE PERCEPTORSHIPS 1981-2006 = 45 STUDENTS

Molly Ross, 2007

Adam Rodet, 2007

Mohamed Alghim, 2007

Shamsidean Ojelande, 2007

Sheshali Wanchoo, 2008-2009

Daniel M. Hayes, 2008

Joseph Alcon, 2008

Offer Shuval, 2009

Blake Sonne, 2009

Cathy Claussen, 2010

Lindsey Witte, 2011

Lindsey Witte, 2012

SPONSOR FOR LABORATORY PRECEPTORSHIPS (Medical Students):

James Hollenberg, 1971, College of Physicians and Surgeons of Columbia University, New York

Jeffry Philips, 1971, College of Physicians and Surgeons of Columbia University, New York

William Edwards, 1973

Gary Peet, 1974

Eldad Vered, 1980

Mark Zelinski, 1982

Steven Haber, 1983

Charles Harper, 1983

Jeffrey Pearl, 1985

Quinten Collard, 1986

Kyle Henderson, 1986

Joe R. Lee, 1986

Albert Shaw, 1987

Lute Oas, 1989

Linda Law, 1989

Anna Liza Camungol, 1991

George Manlongat, 1991

James Stanford, 1991

Dipak Ghelani, 1994

Steve Martin, 1994

Brian Patterson, 1995

Amini Behrang, 1999

Lakshmi Kanagarajah, 2004

Pierce Paul, 2004

Kalil George, 2004

Lindsey King, 2005

Nilika Shah, 2005

Bergheim Marianne, 2006

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Glaser Anderson, 2006

Kochel Stacy, 2006

Cameron Roberts, 2006

Victor Wilcox, 2006

Lindlsey King, 2006

Allison Bego, 2007

Alonso Carrasco, 2007

Celsea Cone, 2007

Gillian Greshowak, 2007

Ann Nguyen, 2007

Cristina Wallace, 2007

Alic Tung, 2008

Figuerva Javier, 2008

Victor Wilcox, 2008

Kayyal Simon, 2008

Derly Cuellar, 2009

Cathleen Jones, 2009

Lee Min, 2009

Alic Tang, 2009

Amit Bhakta, 2010

Maryann Abanobi, 2010

Thomas Ming, 2010

Benjamin Aertker, 2010

Blake Sonne, 2011

Ming Thomas, 2011

Cannon Corey, 2012

Lauren Edward, 2012

Alexander Frolov, 2012

Elizabeth Tolar, 2012

Corey Cannon, 2012, 2013

Nicholas Spencer, 2013

SPONSOR FOR TUTORIAL LABORATORY (Graduate Students):

Robert McClung, GSBS, 1973

Eileen Kelly, GSBS, 1974

Cathy King, GSBS, 1974

James Marchand, GSBS, 1974

Thyon Ruiruekoguhuat, GSBS, 1974

Steven Sands, GSBS, 1976

Eve Andersen, GSBS, 1978

Ricardo Pedro, 1978

Greg N. Fuller, GSBS, 1979

Ennio Chiocca, M.D.-Ph.D. program, 1983

Steve Montgomery, M.D.-Ph.D. program, 1984

Nachum Dafny Curriculum Vitae Page 10 of 50

Patrick Dougherty, Ph.D. program, 1984

Neli R. Kletzly, 1985

Charles Harper, 1985

John Casada, M.D.-Ph.D. program, 1985-1986

William McVaugh, Ph.D. program, 1987

Linda Hudson-Howard, 1987

Cris Hymel, 1988

Carolyn Preston, M.D.-Ph.D. 1988

Gloria Herrera, D.D.S./Ph.D., 1990

Anna Suogh, 1991-1992

Michael F. Kasschau, 1993

Oswaldo Gaytan, M.D. - Ph.D., 1993-Present

Brian Patterson, 1994

James M. Bjork, 1995

Sara Al-Rahim, 1995

Christopher Lewis, 1996 - 1997

Pamela Yang, 1997

Rajkumar Alagugurusamy, 1997

Robert Nasou, 1997

Allison Kissane, 1997

Shan Shripad, 1998

Kerry Ackerman, 1998

Anitra Beasly, 1998

Gunjan Modi, 1999

Neal Single, 1999

Amin Behrang, 2000

Jacob Kowenski, 2000

Alison Prince, 2000

Daniel Kagan, 2000

Joseph Cordella, 2001

Sarai Melichar, 2002

Janie Castillo, 2002

Madi Gunjen, 2003

Jastin Krajca, 2003

Elizabeth Pienkos, 2003

Carolina Buradowski, 2004

Eli Baron, 2004

Jonathan Mazige, 2004

Ted Yamamoto, 2005

Oren Mushin, 2005

Ted Yamamoto, 2006

Ahmed Sumreen, 2006

Lee Min, 2007

Akanksha-Singh, 2008

Jonotan Berrot, 2008

Nachum Dafny Curriculum Vitae Page 11 of 50

> Sheshali Wanchoo, 2008 Sonne Blake, 2009 Samuel Chong, 2010 Cathy Claussen, 2011 Jason Williams, 2011 Zach Jones, 2012

SPONSORSHIP OF MSIV STUDENT ELECTIVE

Erik P. Askenasy, 2005
Nika Shah, 2006
Shelly Kohlleppel, 2007
Victor Wilcox, 2008
Bergheim Marianne, 2008
Alonso Carrasco, 2009
Cathleen Jones, 2009
Min Lee, 2010
Ramchand Preethi, 2011
Lauren Edwards, 2012
Alexander Frolov, 2013
Elizabeth Tolar, 2013

SPONSORSHIP OF POSTDOCTORAL FELLOWS:

1973-1999 Fifteen Postdoctoral Fellows

Sudy Ribeiro, MD, 2000-2002 Rhonda Moore, Ph.D., 2001-2003 Pamela B. Yang, Ph.D., 2005-2006 Mircea I. Chelaru, Ph.D., 2009 - 2010 Bin Tang,Ph.D., 2011-2013 Reyes Vasquez Cruz, M.D., Ph.D., 2011-2012 Tan Trinh, M.D., 2012-2013

CURRENT TEACHING RESPONSIBILITIES:

Medical School: First Year Medical Neuroscience

Medical School: PBL

Medical School: Team Learning Medical School: Third Year Neurology Rotation Neuroscience

Graduate School of Biomedical Science: System Neuroscience Graduate School of Biomedical Science: Topic in Neuroscience

Graduate School of Biomedical Science: Neuroscience

PREVIOUS GRANT SUPPORT:

Effects of extrahypothalamic structures on sensory projections to the hypothalamus (Co-P.I.), NIH (4X5108), 1966-1969, \$60,000

Corpus striatum (P.I.), NIDS Special grant (1-F10-NS02552), 1971-1972, \$9,500

Basal Ganglia, NIH (P.I.), NIH (NS05184), 1970-1972, \$25,000

Parkinson's (P.I.), NIH (F02-NS47569), 1972, \$10,000

Eli Lilly Company (P.I.), 1973, \$2,000

General Research Support (P.I.), UTMSH, 1974, \$4,800

Mechanisms of drug addiction (P.I.), NIH, (1-R01-DA-0083), 1974-1978, \$125,000 Training Grant awarded to the UT Sensory Sciences Institute, Rice University and the Department of Neurobiology and Anatomy; NIH ST32-E407024), 1976-1981

Mechanisms of drug addiction (P.I.), NIH, (1-R01-DA-0083-07), 1984-1986, \$233,116

Neuronal mechanisms of chronic morphine tolerance (P.I.), NIH (1-R01-DA-05075), 1977-1978, \$13,800

Mechanisms of drug addiction (P.I.), NIH (1-R01-DA-00803-04), 1979-1983, \$147,000

Mechanisms of drug addiction (P.I.), NIH (1-R01-DA-00803-07), 1984-1986, \$233,116

Neurobiology of obesity and satiety (P.I.), Fogarty International Center (1-F06-TW00370 for one year), \$28,260

Training Grant awarded to the UTMSH, NIH (ST35-GM07871), 1980-1985

Retinal function during post-natal undernutrition and subsequent rehabilitation (P.I.), Retina Research Foundation, 1982, \$21,340

Interferon toxicity (P.I.), Immuno Modulators Laboratories, 1983, \$5,650

Retinal function during post-natal development (P.I.), Retina Research Foundation, 1983, \$1,100

Interferon and opiate withdrawal (P.I.), Biomedical Research Support Grant, 1983-1984, \$4,995

Alcohol injection in the pituitary suppress pain (P.I.), Brain/Pituitary Foundation, 1983, \$3,200

Interferon (P.I.), Immuno Modulators Laboratories, 1984, \$14,500

Interferon and opiate withdrawal (P.I.), Biomedical Research Support Grant, 1985-1986, \$5,340

Methadone and opiate withdrawal (P.I.), Immuno Modulators Laboratories, 1985-1986, \$12,400

Ascending pain suppression mechanism (Co-P.I.), American Health Services, Inc., 1986-1988, \$45,000/year

Trans-cranial stimulation reduces the severity of opioid addiction (P.I.) American Health Services Corporation, Inc. (AHSC), 3/1/88 - 10/31/89, \$276,436.

Pain modulation (P.I.) - The Texas Pain & Stress Center, 1989-1990, \$2,740.

Ascending pain modulation (P.I.), BRSG, 1990-1992, \$8,884.

Pain suppression mechanism, The Texas Pain and Stress Center, 1991, \$2,300.

The effects of cytokine on amblyopic animal model, Hermann Eye Center, 1992-1995, \$100,000.

Sensitization and cross-sensitization to Psychostimulant, NIDA 14441, 2002-2005, \$72,444.

Master Teaching, Medical School, 2005, \$15,000.

Master Teaching, Medical School, 2006, \$3,000.

How and where methylphenidate exerts effect in adolescent and adult brains, NIH, R01 DA027222, 2009-2014, \$1,635,485.

Effect of psychostimulant on sensation. Hermann Eye Center, 2012, \$15,000.

AD HOC REVIEWER FOR THE FOLLOWING JOURNALS

- 1. Experimental Neurology
- EEG and Clinical Neurophysiology
- 3. Brain Research
- 4. Neuropharmacology
- 5. Life Science

- 6. Neuroendocrinology
- 7. Neuroimmunology
- 8. Brain Res. Bull.
- 9. Experimental Brain Res.
- 10. Physiology and Behavior
- 11. J. of Neuroscience Res.
- 12. J. of Pharmacol. Exp. Ther.
- 13. J. Pineal Res.
- 14. Biological Psychiatry
- 15. Pain J.
- 16. Neuroscience Research
- 17. Behavioral Brain Research
- 18. NIPS
- 19. Pharmacology, Biochemistry and Behavior
- 20. Journal of Neuroscience
- 21. Neuroscience Letters
- 22. Journal of Psychopharmacology

PUBLICATIONS:

A. <u>Presentations at National and International Meetings (Abstracts):</u>

- 1. Dafny, N., Bental, E. and Feldman, S.: Single unit activity in the posterior hypothalamus. <u>EEG and Clin. Neurophysiol</u>. 18:303, 1965.
- 2. Feldman, S. and Dafny, N.: Single cell responses in the anterior hypothalamus to caudate and peripheral stimuli. Proc. Israel Physiol. Pharmacol. Soc. 10, 1965.
- 3. Dafny, N., Bental, E. and Feldman, S.: Unit activity in the visual cortex during sleep and wakefulness. <u>EEG and Clin. Neurophysiol</u>. 22:588, 1967.
- 4. Feldman, S. and Dafny, N.: Single cell responses in hypothalamus to caudate and peripheral stimuli. <u>EEG and Clin. Neurophysiol.</u> 22:589, 1967.
- 5. Feldman, S. and Dafny, N.: Acoustic responses in the hypothalamus. <u>EEG and Clin.</u> <u>Neurophysiol</u>. 25:596, 1968.
- 6. Dafny, N. and Feldman, S.: Effects of caudate nucleus stimulation and lesions on unit activity in the anterior hypothalamus. <u>EEG and Clin. Neurophysiol</u>. 25:596, 1968.
- 7. Feldman, S. and Dafny, N.: Pathways involved in caudate nucleus effects on the posterior hypothalamus. <u>EEG and Clin. Neurophysiol</u>. 27:218, 1969.
- 8. Dafny, N. and Feldman, S.: Effects of extrahypothalamic structures on single cell activity in the posterior hypothalamus. <u>EEG and Clin. Neurophysiol</u>. 27:219, 1969.
- 9. Feldman, S. and Dafny, N.: Effects of brain lesions on the convergence of sensory stimuli on single cells in the hypothalamus. <u>The Book of Advances of Sciences in Israel</u> p. 110, 1969.
- Dafny, N. and Feldman, S.: Patterns of responsiveness of single cells in the hypothalamus. <u>The Book of Advances of Sciences in Israel</u> p. 116, 1969.
- 11. Phillips, M.I. and Dafny, N.: The effect of cortisol on extrahypothalamic neurons. <u>Biology Annual Report, California Institute of Technology</u>, p. 87, 1970.

- 12. Dafny, N. and Van Harreveld, A.: Electron microscopy on insect ganglia. <u>Biology Annual Report, California Institute of Technology</u>, p. 167, 1970.
- 13. Van Harreveld, A. and Dafny, N.: The effect of calcium on the impedance of central nervous tissue. Biology Annual Report, California Institute of Technology p. 167, 1970.
- 14. Phillips, M.I. and Dafny, N.: Effect of a dose range of cortisol on brain unit activity. <u>Fed.</u> Proc. 30:203, 1971.
- 15. Dafny, N., Phillips, M.I. and Taylor, N.A.: Effects of cortisol on spontaneous single unit activity in anterior (AH) hypothalamus and ventromedial (VMH) hypothalamus of freely behaving rats correlated with plasma steroid levels. <u>Fed. Proc.</u> 30:311, 1971.
- Taylor, N.A. and Dafny, N.: Effects of ACTH on spontaneous and sensory evoked background (BA) and unit activity (UA) in hypothalamus, reticular formation and hippocampus of freely behaving rats. <u>25th International Congress of Physiological</u> Science 125:48, 1971.
- 17. Dafny, N. and Gilman, S.: Effects of L-DOPA and reserpine on evoked responses from basal ganglia of freely behaving rats. <u>Neuroscience</u> 2:129, 1972.
- 18. Dauth, G., Dafny, N., Marco, L., Glusman, M. and Gilman, S.: Modification of unit activity in hypothalamus and reticular formation by sensory and central stimulation. Neuroscience 2:187, 1972.
- 19. Dafny, N., Dauth, G. and Gilman, S.: Responses of caudate neurons to extrinsic stimuli. Fed. Proc. 32:365, 1973.
- 20. Dafny, N.: Nembutal modifies input in the hypothalamus. <u>Proc. Soc. Neurosci</u>. 3:339, 1973.
- 21. McClung, R., Dafny, N. and Strada, S.J.: Pineal body and hypothalamic evoked responses following acoustic and amygdala stimulation in freely behaving rats. <u>Proc.</u> Soc. Neurosci. 3:365, 1973.
- 22. Dafny, N., Dauth, G. and Gilman, S.: Effects of monoamine agents on field potentials and unit activity in basal ganglia. Sixth Symposium of Fulton Society in Neurotropic Drugs and Behavior. Inter. J. Neurol. Barcelona, Spain, 1973.
- 23. Dafny, N.: Spontaneous unit activity in caudate nucleus. <u>Proc. Soc. Neurosci</u>. 4:183, 1974.
- 24. Dafny, N., Jacob, R.H. and Jacobson, E.D.: Gastrointestinal regulation of appetite. <u>Clin.</u> <u>Res</u>. 23:45A, 1975.
- 25. Dafny, N., King, C., McClung, R.E. and Jacobson, E.D.: Effects of choleystokinin: Ocapeptide (CCK-OP) on hypothalamic electrical activity. <u>Fed. Proc.</u> 59:441, 1975.
- 26. McClung, R.E., Dafny, N. and Burks, T.F.: Effects of morphine and naloxone on CNS field potentials in unanesthetized rats. <u>Fed. Proc.</u> 59:786, 1975.
- 27. Dafny, N.: Modification of behavioral and electrophysiological properties following alteration of catecholamine levels. Sixth International Congress of International Society of Psychoneuroendocrinology, Aspen, Colorado, 1975.
- 28. McClung, R.E. and Dafny, N.: Single unit recordings from the rat pineal body. <u>Tex. Rep. Biol. Med</u>. 33:340-341, 1975.
- 29. Peet, G.J., Jacobson, E.D. and Dafny, N.: Gastrointestinal modification of electrical activity in the CNS. <u>Tex. Rep. Biol. Med</u>. 33:341-342, 1975.
- 30. Dafny, N. and Burks, T.F.: Morphine modification of evoked potentials in extrapyramidal system. <u>Proc. Soc. Neurosci.</u> 5:439, 1975.

- 31. Wachtendorf, H., Burks, T.F. and Dafny, N.: Haloperidol and morphine effects on evoked responses in caudate nucleus and pineal body. <u>Proc. Soc. Neurosci.</u> 5:440, 1975.
- 32. Rujirekagulwat, T., Matthews, H.R. and Dafny, N.: Alcohol modified field potentials in basal ganglia correlate with plasma alcohol levels. Proc. Soc. Neurosci 5:444, 1975.
- 33. McClung, R.E., Reilly, E.L. and Dafny, N.: Modification on CNS electrical activity by urethane. <u>Tex. Rep. Biol. Med.</u> 34:185, 1976.
- 34. Schanzer, C.N., Jacobson, E.D. and Dafny, N.: Possible role of prosta- glandins in regulating appetite. Clin. Res. 24:13A, 1976.
- 35. McClung, R.E., Burks, T.F. and Dafny, N.: Electrophysiological assessment of chronic morphine tolerance in freely behaving rats. <u>Fed. Proc.</u> 35:385, 1976.
- 36. Burks, T.F. and Dafny, N.: Participation by 5-hydroxytryptamine in morphine affects on evoked responses in hypothalamus and pineal body. <u>Proc. Soc. Neurosci.</u> 6:566, 1976.
- 37. Dafny, N. and Burks, T.F.: Serotonergic links in responses of caudate nucleus and substantia nigra to morphine. Proc. Soc. Neurosci. 6:566, 1976.
- 38. Sands, S.F., Salamy, J. and Dafny, N.: Differential effects of morphine on evoked potentials in the rat central grey, reticular formation and lateral geniculate body. <u>Tex. Rep. Biol. Med.</u> 1976.
- 39. Salamy, J., Sands, S.F. and Dafny, N.: Morphine induced changes in specific CNS structures. Tex. Rep. Biol. Med. 1976.
- 40. Brown, M., Burks, T.F. and Dafny, N.: Cholinergic stimulation alters effect of morphine in the hypothalamus. <u>Tex. Rep. Biol. Med.</u> 1976.
- 41. Rigor, B.M., Astrello, J. and Dafny, N.: Dose effect of ketamine on electrophysiological properties of different CNS sites. <u>Tex. Rep. Biol. Med.</u> 1976.
- 42. Astrello, J., Rigor, B.M. and Dafny, N.: Ketamine induced changes on sensory evoked potentials. Tex. Rep. Biol. Med. 1976.
- 43. Gonzales, L., Altshuler, H.L. and Dafny, N.: Cocaine effects on sensory field potentials in the freely behaving rat. Tex. Rep. Biol. Med. 1976.
- 44. Dafny, N.: Reciprocal neurophysiological connection between the hypothalamus and the pineal. <u>Fed. Proc.</u> 61:321, 1977.
- 45. Rigor, B.M. and Dafny, N.: Neurophysiological effects of ketamine on sensory field potentials. <u>Fed. Proc.</u> 61:1004, 1977.
- 46. Rigor, B.M. and Dafny, N.: Sensory field potentials as a tool to monitor levels of ketamine induced anesthesia. <u>Proc. Soc. Neurosci.</u> 7:301, 1977.
- 47. Salamy, J.G., Sands, S. and Dafny, N.: Comparison of morphine action on sensory input recorded in five brain sites. Proc. Soc. Neurosci. 7:132, 1977.
- 48. Guttermann, L.R., Rigor, B.M. and Dafny, N.: Differential effects of morphine on acoustic and photic evoked responses recorded from dorsal raphe. <u>Fed. Proc.</u> 37:827, 1978.
- 49. Yeoman, R.R., Rigor, B.M. and Dafny, N.: Alteration of 5-hydroxytryptamine modifies morphine effects on sensory evoked potentials recorded from dorsal raphe nucleus. <u>Fed. Proc.</u> 37:827, 1978.
- 50. McClung, R. and Dafny, N.: Single unit recordings from the parafascicular nucleus of the thalamus in naive and morphine dependent rats. <u>Fed. Proc.</u> 37:827, 1978.
- 51. Burks, T.F. and Dafny, N.: Effects of morphine on hypothalamic units in unanesthetized rats. Fed. Proc. 37:567, 1978.

- 52. Dafny, N., Rigor, B.M. and Burks, T.F.: Caudate nucleus multi-unit activity following incremental doses of morphine. Fed. Proc. 37:827, 1978.
- 53. Dafny, N., Rigor, B.M. and Burks, T.F.: Morphine discrimination sensory input recorded from several brain sites. <u>International Symposium on Drugs as Discriminative Stimuli</u>. Antwerp, Belgium, 1978.
- 54. Dafny, N., Rigor, B.M. and Burks, T.F.: Morphine discrimination of unit activity patterns recorded from central gray, caudate nucleus and parafasciculus thalami. International Symposium on Drugs as Discriminative Stimuli. Antwerp, Belgium, 1978.
- 55. Rigor, B.M. and Dafny, N.: Differential effects of pentobarbital, ketamine and morphine on sensory field potentials recorded in several brain sites from freely moving rats. Anesth. Anal. 1978.
- 56. Brown, M., Rigor, B.M. and Dafny, N.: Incremental doses of morphine provide method to identify different patterns of responses recorded from eight brain nuclei. <u>Proc. Soc.</u> Neurosci. 8:420, 1978.
- 57. Dafny, N. and Rigor, B.M.: Electrophysiological evidence for tolerance to morphine: Unit activity recordings from hypothalamus and parafasciculus nucleus in freely moving rats. <u>Proc. Soc. Neurosci.</u> 8:422, 1978.
- 58. Yeoman, R.R., Rigor, B.M. and Dafny, N.: Altered caudate nucleus field potentials following sustained stimulation to different substantia nigra regions. Proc. Soc. Neurosci. 8:51, 1978.
- 59. Yeoman, R.R., Moreno, L., Rigor, B.M. and Dafny, N.: Enflurane effects on reticular formation sensory evoked responses in rats. <u>Fed. Proc.</u> 38:275, 1979.
- 60. Rigor, B.M. and Dafny, N.: Opiate effects on sensory input recorded from several brain sites. Fed. Proc. 38:854, 1979.
- 61. Dafny, N. and Rigor, B.M.: Effect of morphine on unit activity patterns recorded from reticular formation, caudate nucleus and medial thalamus. <u>Fed. Proc.</u> 38:854, 1979.
- 62. Pardo, R., Rigor, B.M. and Dafny, N.: Dopamine modulates sensory input to caudate nucleus and globus pallidus. <u>Fed. Proc.</u> 38:858, 1979.
- 63. Andersen, E., Rigor, B.M. and Dafny, N.: 5-HT involvement in sensory input to basal ganglia of freely behaving rats. <u>Fed. Proc.</u> 38:859, 1979.
- 64. Wiggins, R.C., Fuller, G.N. and Dafny, N.: A lasting effect of postnatal undernutrition on the rat electroretinogram. <u>Proc. Soc. Neurosci.</u> 5:93, 1979.
- 65. Fuller, G.N., Rigor, B.M., Wiggins, R.C. and Dafny, N.: Effect of chronic halothane exposure on sensory evoked potentials in freely behaving rats. Proc. Soc. Neurosci.5:204, 1979.
- 66. Stanley, J.C., DeFrance, J.F., Taber, K. and Dafny, N.: The effect of morphine on the excitability of hippocampal pyramidal cells. Proc. Soc. Neurosci. 5:282, 1979.
- 67. Rabe, L.S., Rigor, B.M., Moreno, L. and Dafny, N.: Cortical sensory evoked potentials and the anesthetic dose of halothane in freely behaving rats. Proc. Soc. Neurosci. 5:569, 1979.
- 68. Andersen, E., Dafny, N. and Gottesfeld, Z.: Trans-synaptic effects of chronic dorsal raphe stimulation on neurotransmitter-synthesizing enzymes. <u>Proc. Soc. Neurosci.</u> 5:583, 1979.

- 69. Schurr, A., Rigor, B.M., Ho, B.T. and Dafny, N.: Effects of substantia nigra, dorsal raphe, medial lemniscus and acoustic stimulation on single units in the caudate nucleus of the rats. Fed. Proc. 39:602, 1980.
- 70. Rigor, B.M. and Dafny, N.: Dose related effects of halothane on sensory evoked responses recorded from freely behaving rats. <u>Fed. Proc.</u> 39:406, 1980.
- 71. Fuller, G.N., Rigor, B.M., Wiggins, R.C. and Dafny, N.: Modification of dose-dependent changes in sensory evoked potentials by chronic halothane administration. <u>Fed. Proc.</u> 39:406, 1980.
- 72. Brown, M., Rigor, B.M. and Dafny, N.: Horseradish peroxidase determination of neuronal connection between the rat pineal and the habenular nuclei. <u>Fed. Proc.</u> 39:986, 1980.
- 73. Dafny, N. and Brown, M.: Photic input reach the rat pineal via sympathetic and habenular complex. Fed. Proc. 39:986, 1980.
- 74. Schurr, A., Rigor, B.M., Ho, B.T. and Dafny, N.: Effect of increasing doses of microiontophoretically injected morphine on caudate neurons in naive and morphine-dependent rats. Proc. Soc. Neurosci. p. 6, 1980.
- 75. Andersen, E., Rigor, B.M. and Dafny, N.: Pain and dorsal raphe inputs to the parafascicularis nucleus of the rat. <u>Proc. Soc. Neurosci.</u> p. 6, 1980.
- 76. Rabe, L.S., Moreno, L.M. and Dafny, N.: Capsaicin modifies sensory evoked potentials from habenula anterior hypothalamus, dorsal raphe and substantia nigra from freely behaving rats. Proc. Soc. Neurosci. p. 6, 1980.
- 77. Rigor, B.M. and Dafny, D.: Limbic structure single units interaction with opiates. <u>Proc. Intl. Physiol. Sci.</u> Budapest, 24:815-817, 1980.
- 78. Andersen, E. and Dafny, N.: Effect of dorsal raphe stimulation on field potentials in forebrain structure. <u>Fed. Proc.</u> 40:284, 1981.
- 79. Vered, E., Andersen, E., Rabe, K., Brown, M. and Dafny, N.: Dorsal raphe modulation of pain information. <u>Fed. Proc.</u> 40:285, 1981.
- 80. Andersen, E. and Dafny, N.: Microiontophoretic application of 5-HT blocks responses to noxious stimuli in single units in the parafascularis of the rat. Proc. Soc. Neurosci. 7:338, 1981.
- 81. Schurr, A., Rigor, B.M. and Dafny, N.: Electrophysiological evidence in favor of different opiate receptor populations in the caudate and the central gray of the rat. <u>Proc. Soc.</u> Neurosci. 7:577, 1981.
- 82. Brown, M., Gildenberg, P. and Dafny, N.: Opiates modify sensory and central inputs to medial thalamus neurons. Fed. Proc. 4:6111, 1982.
- 83. Reyes-Vazquez, C. and Dafny, N.: Does naloxone exert effects on thalamic neurons? <u>Fed. Proc.</u> 4:6109, 1982.
- 84. Prieto-Gomez, B., Brown, M. and Dafny, N.: Sensory and central inputs to the vetromedial hypothalamus modified by morphine treatments. <u>Fed. Proc.</u> 41:6110, 1982.
- 85. Reyes-Vazquez, C., Prieto-Gomez, B. and Dafny, N.: Comparison of the effects of iontophoretically applied interferon and morphine on thalamic and cortical neurons. <u>Proc.</u> Soc. Neurosci. 1982.
- 86. Prieto-Gomez, B., Reyes-Vazquez, C. and Dafny, N.: Differential dose response characteristics of interferon in ventromedial hypothalamus and hippocampus. <u>Proc. Soc. Neurosci.</u> 1982.

- 87. Dafny, N.: Anatomical evidence that rat pineal has neuronal connections via the pineal stalk. Annals of the Israeli Society for Anatomical Sciences, <u>Israel J. Med. Sci.</u> 18:318, 1982.
- 88. Reyes-Vazquez, C., Prieto-Gomez, B. and Dafny, N.: Dorsal raphe stimulation, morphine and 5-HT iontophoresis effects on medial thalamic units following noxious and non-noxious stimulation. Proc. Soc. Neurosci. 7:789, 1983.
- 89. Prieto-Gomez, B., Reyes-Vazquez, C. and Dafny, N.: Iontophoretic application of morphine and naloxone on ventromedial hypothalamic units. Proc. Soc. Neurosci. 7:1128, 1983.
- 90. Berneman, L.P., Reyes-Vazquez, C., Georgiades, J.H. and Dafny, N.: Does alpha interferon affect the CNS via opiate receptors. <u>Fed. Proc</u>. 43:927, 1984.
- 91. Georgiades, J.A., Reyes-Vazquez, C. and Dafny, N.: The effects of interferon in reduction opiate addiction liability depend both on dose and class. <u>Fed. Proc.</u> 43:747, 1984.
- 92. Reyes-Vazquez, C., Georgiades, J.A. and Dafny, N.: Differential effects of interferon on cortical neurons. Fed. Proc. 43:927, 1984.
- 93. Dafny, N., Georgiades, J.A. and Reyes-Vazquez, C.: Single injection of alpha interferon prior to or after chronic morphine treatment altered withdrawal for a prolonged period. Fed. Proc. 43:748, 1984.
- 94. Gilman, M.A., Lichtigfield, F.G. and Dafny, N.: Minimal sedation required with nitrous oxide treatment of alcohol withdrawal. <u>Fed. Proc.</u> 43:659, 1984.
- 95. Dafny, N., Georgiades, J.A. and Reyes-Vazquez, C.: Reduction of opiate addiction by interferon. <u>IUPHAR 9th International Congress of Pharmacology</u> 9:1552, 1984.
- 96. Georgiades, J.A., Reyes-Vazquez, C. and Dafny, N.: Alpha-interferon injection prior to or after chronic morphine treatment altered withdrawal. <u>IUPHAR 9th International Congress of Pharmacology</u> 9:1553, 1984.
- 97. Reyes-Vazquez, C., Berneman, L.P., Georgiades, J.H. and Dafny, N.: Opiate and interferon interaction. <u>IUPHAR 9th International Congress of Pharmacology</u> 9:1616, 1984.
- 98. Berneman, L.R., Reyes-Vazquez, C., Georgiades, J.H. and Dafny, N.: Cortical neurons exhibited different sensitivity to alpha and gamma interferon. <u>IUPHAR 9th International</u> Congress of Pharmacology 9:1617, 1984.
- 99. Reyes-Vazquez, C., Prieto-Gomez, B. and Dafny, N.: Aminergic effects on rat pineal unit activity. Proc. Soc. Neurosci. 10:820, 1984.
- 100. Dafny, N. and Reyes-Vazquez, C.: Alpha-interferon modifies the chronic but not the acute morphine effects. <u>Proc. Soc. Neurosci.</u> 10:110, 1984.
- 101. Dafny, N.: Interferon as candidate preventing and attenuating opiate addiction. <u>Drug Dev. Res.</u> 4:38, 1984.
- 102. Jarowenko, D., Harper, C., Dafny, N. and Pellis, N.R.: Suppression of T-lymphocyte function by repetitive morphine treatments. <u>Fed. Proc.</u> 44:1540, 1985.
- Montgomery, S.P., Wagle, V.G., Drath, D. and Dafny, N.: Cyclosporine, cyclophosphamide and cortisol modify naloxone-induced withdrawal in morphine addicted rats. <u>Fed. Proc.</u> 44:1636, 1985.

- Dafny, N., Jarowenko, D. and Pellis, N.R.: Immunosuppression by ionizing irradiation prevent and alter morphine-induced withdrawal in morphine addicted rats. <u>Fed. Proc.</u> 44:1491, 1985.
- 105. Krajewski, K.J., Hayden, J.W., Felkin, B.J., Faillace, L., Dafny, N. and Kerman, R.H.: Immune evaluation of patients on methadone maintenance. IVth World Congress of Biological Psychiatry, 1985.
- 106. Kerman, R., Krajewski, K., Hayden, J., Felkins, B., Faillace, L. and Dafny, N.: Immune responsiveness of methadone-treated patients. <u>Amer. Cell. of Clin. Pharmacol</u>. 1985.
- 107. Kletzly, N.E., Dougherty, P.M., Aronowsky, J., Pellis, N.R. and Dafny, N.: Evidence that opiate addiction involves an immune response. <u>Proc. Soc. Neurosci.</u> 11:1201, 1985.
- 108. Dougherty, P., Aronowski, J., Drath, D. and Dafny, N.: An interaction of the immune system and opiate dependence: Adoptive transfer of cyclosporine's attenuating effect upon the withdrawal syndrome. Proc. Soc. Neurosci. 11:1201, 1985.
- 109. Fuller, G.N., Lin, S.-N., Caprioli, R.M., Wiggins, R.C. and Dafny, N.: Analysis of regional brain uptake and accumulation of morphine by mass fragmentography. <u>Proc. Soc.</u> Neurosci. 11:1201, 1985.
- 110. Aronowski, J., Dougherty, P.M., Samorajski, T., Pellis, N.R. and Dafny, N.: Irradiation modifies the analgesic effects of morphine. Proc. Soc. Neurosci. 11:1200, 1985.
- 111. Dafny, N., Dougherty, P.M. and Pellis, N.R.: The effect of immunosuppression and opiates upon the visual evoked responses of cortical and subcortical structures. Proc. Soc. Neurosci. 11:907, 1985.
- 112. Pearl, J.M., Dougherty, P.M., Krajewski, K.J. and Dafny, N.: Morphine and methadone dependent rats exhibit different sensitivities to interferon alpha modulation of the naloxone precipitated withdrawal syndrome. Proc. Soc. Neurosci. 12:1381, 1986.
- 113. Dougherty, P.M., Aronowski, J., Kletzly, N., Pellis, N.R. and Dafny, N.: The brain and the immune system: A specifically restored immune system is essential for the manifestation of the withdrawal syndrome of opiate dependent rats. Proc. Soc. Neurosci. 12:339, 1986.
- 114. Harper, C., Dougherty, P.M. and Dafny, N.: Interaction of immunomodifying agents upon opiate induced hypothermia: Interferon prevents the development of tolerance to morphine hypothermia. <u>Proc. Soc. Neurosci.</u> 12:1383, 1986.
- 115. Dafny, N., Aronowski, H. and Dougherty, P.M.: Immune modulation of nociception and brain electrophysiologic response in the presence and absence of morphine. Proc. Soc. Neurosci. 12:339, 1986.
- Aronowski, J., Dougherty, P.M. and Dafny, N.: Prenatal exposure to morphine alters the nociceptive threshold and development of opiate tolerance in rats. <u>Proc. Soc. Neurosci.</u> 12:1382, 1986.
- 117. Casada, J.M., Dafny, N. and Drath, D.B.: Stress related defects in rat polymorphonuclear leukocyte phagocytosis. <u>FASEB</u> 46:1040, 1987.
- 118. Lee, J.R., Dougherty, P.M., Krajewski, R.J. and Dafny, N.: Neuro-immunomodulation, central opioids and the immune response to virus. <u>Proc. Soc. Neurosci</u>. 13:919, 1987.
- 119. Dougherty, P.M. and Dafny, N.: Central Opioid systems are differentially affected by products of the immune response. Proc. Soc. Neurosci. 13:1437, 1987.
- 120. Henderson, K., Dougherty, P.M., Krajewski, K.J. and Dafny, N.: Immune suppression and central opioid activity. Proc. Soc Neurosci. 13:918, 1987.

- Collard, Q., Dougherty, P.M., Krajewski, K.J. and Dafny, N.: Neuro-immunomodulation, central opioids and the immune response to bacterial endotoxin. <u>Proc. Soc. Neurosci.</u> 13:918, 1987.
- 122. Kulkarni, A., McVaugh, W., Lawrence, B., Pizzini, R., Van Buren, C., Rudolph, F. and Dafny, N.: Immunosuppression by nucleotide deprivation and cyclosporine modulates brain function. Fed. Proc. 2:A485, 1988.
- 123. Skolnick, M., Dong, W.-Q., Qiao, J.-T. and Dafny, N.: Descending and ascending pathways modulate noxious responses of medial thalamic neurons. <u>Fed. Proc.</u> 2:A1071, 1988.
- Dong, W.-Q., Skolnick, M. and Dafny, N.: Lateral hypothalamic noxious responses are modulated by habenular, dorsal raphe and external electrical stimulation. <u>Fed. Proc.</u> 2:A1071, 1988.
- 125. Dafny, N., Dong, W.-Q. and Skolnick, M.: Habenular noxious responses are modulated by dorsal raphe, lateral hypothalamus and external electrical stimulation. <u>Fed. Proc.</u> 2:A1071, 1988.
- 126. Dong, W.-O., Skolnick, M. and Dafny, N.: Effects of dorsal raphe, habenula and external electrical stimulations on septal nucleus neurons in the rat. <u>Proc. Soc. Neurosci.</u> 14, 1988.
- 127. McVaugh, W., Shen, A. and Dafny, N.: Dose response effects of cocaine on evoked activity recorded from dorsal raphe and parabrachial area. <u>Proc. Soc. Neurosci.</u> 14, 1988.
- 128. Qiao, J.-T., Wiggins, R.C., Dougherty, P.M. and Dafny, N.: Comparison and contrast of addictive agents on CNS structures: I. Cocaine and morphine effects following microiontophoresis into caudate, nucleus accumbens and medial prefrontal cortex. <u>Proc. Soc. Neurosci</u>. 14, 1988.
- 129. Wiggins, R.C., Qiao, J.-T., Dougherty, P.M. and Dafny, N.: Comparison and contrast of addictive agents on CNS structures. II. Cocaine and morphine effects on habenula and the parafasciculus thalami. Proc. Soc. Neurosci. 14, 1988.
- 130. Dafny, N. and Dougherty, P.M.: Muramyl-dipeptides alter the neuronal firing rate of the hypothalamus and hippocampus but not the dorsal raphe. Proc. Soc. Neurosci. 14, 1988.
- 131. Dougherty, P.M. and Dafny, N.: Microiontophoretic application of muramyl-depeptide alters the discharge frequency of hypothalamic and hippocampal neurons. <u>Proc. Soc. Neurosci.</u> 14, 1988.
- 132. Dafny, N., Dougherty, P.M. and Pellis, N.R.: The immune system and morphine dependent, <u>Proc. of the Committee of Problems of Drugs Dependent (CPDD)</u>. June, 1989.
- 133. Preston, C., Dougherty, P. and Dafny, N.: Antinociceptive and behavioral effects of stimulation in the dorsal raphe, lateral habenula, pretectal area, and ventral tegmental area. <u>Proc. Soc. Neurosci.</u> 15:151, 1989.
- Casada, J., Perry, R. and Dafny, N.: Stress modulates sensory evoked potentials from the hypothalamus, hippocampus and superior colliculus, <u>Proc. Soc. Neurosci.</u> 15:296, 1989.
- 135. McVaugh, W. and Dafny, N.: Effects of microiontophoretically applied interleukin-1 and norepinephrine on single unit activity recorded from the rat hypothalamus *in vivo*. <u>Proc.</u> Soc. Neurosci. 15:718, 1989.

- 136. Herrera, G. and Dafny, N.: Electrical stimulation in the septum, habenula, parafascicularis, substantia nigra and the pinna of the ear produced analgesia. <u>Fed. Proc.</u> 47: 1990.
- 137. Dougherty, P.M., Qiao, J.-T., Wiggins, R.C. and Dafny, N.: Cocaine interaction with sulpiride, methysergide, naloxone and desipramine: Neurophysiological effects on mesolimbic and neostriatal neuronal activity. Proc. of the Committee on Problems of Drugs Dependent (CPDD). June, 1990.
- 138. Dafny, N., Dougherty, P.M. and Drath, D.L.: Immuno-suppressive agent modulates the severity of opiate withdrawal. Proc. of the Committee of Problems of Drugs Dependent (CPDD). June, 1990.
- 139. Dafny, N., Reyes-Vazquez, C. and Herrera, M.: Evidence that the parafasciculus thalami is a pain center. Proc. 8th Ann. Conf. on Biomed. Eng. Res. Houston, Feb. 1990.
- 140. Kulkarni, A.D., Pizzini, R., Lawrence, B., Kumar, S., Martin, J., Dafny, N., Rudolph, F., Van Buren, C.: Effect of *in vivo* and *in vitro* administration of morphine on bone marrow CFU-C, CFU-S, and IL-3 production. 19th Annual ISEH Meeting Seattle, 1990.
- 141. Dafny, N., Dougherty, P.M. and Reyes-Vazquez, C.: The immune-derived peptide, interferon conveys information from the immune system into the central nervous system. <u>Proc. 1st Intern. Cong.</u> ISNIM, Florence, Italy, May, 1990.
- 142. Dougherty, P.M., Qiao, J.-T., Wiggins, R.C., and Dafny, N. Cocaine interaction with sulpiride, methysergide, naloxone and desipramine: Neurophysiological effects on mesolimbic and neostriatal neuronal activity. <u>Proc. of the College on Problems of Drug Dependent</u> (CPDD). June 1990.
- 143. McVaugh, W. and Dafny, N.: Norepinephrine and prostaglandin E₂: effects on single unit activity recorded from the rat hypothalamus in vivo. <u>Proc. Soc. Neurosci.</u> 1990, 16:1211.
- 144. Casada, J.H. and Dafny, N.: Stimulation of the bed nucleus of stria terminalis produces stress related behavior. Proc. Soc. Neurosci. 1990, 16:432.
- 145. Dafny, N. and Dougherty, P.M.: Noninvasive subthreshold auricular stimulation reduces the severity of precipitated and abrupt opiate withdrawal. <u>Proc. of CPPD</u>. June 1991.
- 146. Casada, J.H. and Dafny, N.: Bed nucleus of the stria terminalis neurons responds to both nociceptive and stress-related stimuli. Proc. Soc. Neurosci. 1991, 17:1000.
- Dafny, N. and Casada, J.H.: Microiontophoretically applied acetylcholine, morphine and norepinephrine modulate bed nucleus of stria terminalis neurons. <u>Proc. Soc. Neurosci.</u> 1991, 17:425.
- 148. Burks, T.F., Skogh, A., Fang, S.N., Hruby, V.J., and Dafny, N. Delta and non-delta opioid receptor mediated antinociception produced by cholecystokinin analogues. <u>Proc. of the</u> <u>College on Problems of Drug Dependent</u> (CPDD), June 1992.
- 149. Casada, J.H., and Dafny, N. Muscarinic receptors mediate the effect of Ach on neurons of the bed nucleus of the stria terminalis. Proc. Soc. Neurosci., 1992, 18:535.
- 150. Hanson, S.K., Grotta, J.C., Waxham, M.N., Earls, R., Strong, R., and Dafny, N. Regional depression in calcium/calmodulin dependent protein kinase II (Cam-KII) in local ischemia. Proc. Soc. Neurosci, 1992, 18:1589.
- 151. Masse, T., Dafny, N., and Kelly, P.T. Subcellular localization of calcium/calmodulin dependent protein kinase II (CK-II) in PC-12 cells. <u>Proc. Soc. Neurosci.</u> 1993, 19:244.
- 152. Prieto-Gomez, B., Dafny, N. and Reyes-Vazquez, C. Lateral hypothalamus site of action for α -interferon anorexic effects. <u>Proc. Soc. Neurosci.</u> 1993, 19:502.

- 153. Gayton, O., Cheung, L., Swann, A., and Dafny, N. Computerized analysis of locomotor activity and its response to light and dark cycle administration of amphetamine. <u>Sixth International Conference of Chronopharmacology and Chronotherapeutics</u>, Florida, July 1994, Florida.
- 154. Mazow, M.L., Yan, H.Q., and Dafny, N. Visual deprivation modulates photic responses. <u>Proc. Soc. Neurosci.</u>, 1994, 20:464.
- 155. Yan, H.Q., Mazow, M.L., and Dafny, N. NGF prevents the development of amblyopia in rats. Proc. Soc. Neurosci., 1995, 21:549.
- Gaytan, O., Swann, A., and Dafny, N. Sensitization to locomotor effects of methylphenidate is influenced by the time of administration. <u>Proc. Soc. Neurosci.</u>, 1995, 21:972.
- 157. Lewis C., Gayton, O., Swann, A., and Dafny, N. Locomotor effects of amphetamine throughout the light dark cycle. Proc. Soc. Neurosci., 1996, 22:707.
- 158. Gayton, O, Swann, A., and Dafny, N. Sensitization to locomotor effects of amphetamine is influenced by the time of administration. Proc. Soc. Neurosci., 1996, 22:473.
- 159. Yang, P., Gaytan, O., Swann, A., Mauk, M., and Dafny, N. Methylphenidate and MK-801 alter body temperature. <u>Soc. Neurosci.</u>, 1998, 24:1929.
- 160. Dafny, N., Yang, P., Gayton, O., Swann, A., and Willmore, L.J. Coadministration of methylphenidate and MK-801 produced analgesic response. <u>Soc. Neurosci.</u>, 1998, 24:1929.
- 161. Shripad, S., Gaytan, O., Al-Rahim, S., Swann, A., and Dafny, N. A single injection of MK-801 modulates the acute and chronic effects of methylphenidate. <u>Soc., Neurosci.</u>, 1998, 24:1929.
- 162. Swann., A., Aalgugurusumy., R., Gaytan, O., Shripad, S., and Dafny, N. MK-801 transiently mask the expression of sensitization to methylphenidate. <u>Soc. Neurosci.</u>, 1998, 24:1929.
- Gaytan, O., Shripad, S., and Dafny, N., The ability of MK-801 to prevent development of sensitization to methylphenidate is dependent on its motor effect. <u>Soc. Neurosci.</u>, 1998, 24:1930.
- 164. Yang, P., Beasley, A., Eckerman, K., Gaytan, O., Swann, A, and Dafny, N. Blocking of sensitization to the locomotor effect of methylphenidate by sodium valproate. <u>Soc.</u>, Neurosci., 1999, 25:1877.
- 165. Beasley, A., Eckermann, K., Gaytan, O., Swann, A., Ferrendelli, J.A., and Dafny N. Valproic acid modulates the induction of sensitization to methylphenidate. <u>Soc. Neurosci.</u> 1999, 25:1877.
- 166. Eckermann, K., Gaytan, O., Beasley, A., Swann, A., and Dafny N. Dose-related modulation of the acute and chronic effects of methylphenidate by valproic acid. <u>Soc Neurosci.</u>, 1999, 25:1877.
- 167. Gaytan, O., Swann, A., Aronowski, J., and Dafny N. MK-801 prevents the development of sensitization to methylphenidate: state dependent learning or plastic events. <u>Soc.</u> Neurosci., 1999, 25:1877.
- 168. Gaytan, O., Swann, A., and Dafny, N. Behavioral sensitization to methylphenidate (ritalin) is dependent on the circadian time of administration. <u>Eleventh International Conference of Chronopharmacology and Chronotherapeutics</u>, 1999.

- 169. Yang P., Beasley, A., Eckermann, K., Swann, A., and Dafny, N. Valproate prevents the initiation and the expression of locomotor sensitization to methylphenidate (Ritalin). Procedure of College on Problems of Drug Dependence Portonico, 2000, 62:177.
- 170. Kowenski, J., Yang, P. Singhal, N., Modi, G. Swann, A., Dafny, N., and Ferrendellii, J. Effects of valproate and lithium on tail flick latency temperature and body weight. <u>Proc</u> Soc. Neurosci., 2000, 26:2273.
- 171. Ribeiro, S., Yang, P. Swann, A., Dafny, N., and Burks, T. Sex differences in restrain-induced analgesia. Proc. Soc. Neurosci., 2000, 26:1270.
- 172. Yang, P., Kowensky, J., Swann, A., and Dafny, N. Valproate blocks induction and expression of MK-801 elicited sensitization. <u>Proc. Soc. Neurosci.</u>, 2000, 26:2273.
- 173. Singhal, N., Yang, P., Modi, G., Swann, A., and Dafny, N. Effects of Lithium on sensitization to methylphenidate. <u>Proc. Soc. Neurosci.</u>, 2000,26:2273.
- 174. Yang, P., Amini, B., and Dafny, N. Rat strain differences in the locomotor responses to repetitive methylphenidate (Ritalin). Proc. Soc. Neurosci, 2001.
- 175. Amini, B., Yang, P., and Dafny, N. Strain differences in the diurnal pattern of locomotor for activity and the response to methylphenidate. <u>Proc. Soc. Neurosci.</u>, 2001.
- 176. Yang, P., Amini, B., Swann, A., and Dafny, N. Does methylphenidate cross sensitize with amphetamine? Problem of Drug Dependence (CPDD). Quebec, Canada, June 2002.
- 177. Yang, P.B., Amini, B., Swann, A., and Dafny, N. Pretreatment with Ritalin-induced strainand dose-dependent sensitization or tolerance in adult rats. XIVth World Congress of Pharmacology, San Francisco, CA, July 2002.
- 178. Dafny, N. Tom Burks as a role male model in teaching research and administration. XIVth World Congress of Pharmacology, San Francisco, CA, July 2002.
- 179. Yang, P., Amini, B., Swann, A., and Dafny, N. Cross-sensitization of methylphenidate with amphetamine in dose- and strain-dependent. Proc. Soc. Neurosci., 2002, Orlando, FL.
- 180. Dafny, N., Yang, P., Amini, B., and Swann, A. Methylphenidate treatment in adolescents elicits sensitization in adulthood. <u>Proc. Soc. Neurosci.</u>, 2002, Orlando, FL.
- 181. Prieto-Gomez, B., Herrera-Ruiz, M., Vazquez-Alvarez, A., Dafny, N., and Reyes-Vazquez, C. Methylphenidate and amphetamine single administration effects on glutamatergic ventral tegmental area synaptic current. Proc. Soc. Neurosci. 2002, New Orleans, LA.
- 182. Swann, A.C., Yang, P.B. and Dafny, N. Sex and age differences in the behavioral responses to acute methylphenidate. <u>Proc. 64 Annal Proc. of College on Problem of Drug Dependence (CPDD)</u> 2003, Miami, Florida.
- 183. Yang, P.B., Swann, A.C. and Dafny, N. Cross sensitization of methylphenidate and amphetamine: Implications of sex and dose differences in drug abuse. Proc. of College on Problem of Drug Dependence (CPDD) 2003, Miami, Florida.
- 184. Dafny, N., Yang, P.B. and Swann, A.C. Sex and age differences in the long-term effects of repeated exposure to methylphenidate. Proc Of College on Problem of Drug Dependence (CPDD) 2003, Miami, Florida.
- 185. Yang, P.B., Swann, A.C. and Dafny, N. Differences in cross sensitization between methylphenidate and amphetamine in female and male rats. Sixth IBRO 2003 Prague, Czech.

- 186. Dafny, N., Yang, P.B. and Swann, A.C. Are there age and sex differences to acute and chronic methylphenidate treatment? Sixth IBRO 2003 Prague, Czech.
- 187. Yang, P.B., Melicher, S., Castillo, J., Swann, A.C. and Dafny, N. Differences in cross-sensitization between methylphenidate and amphetamine: Home cage vs test cage. <u>Proc. Soc. Neurosci.</u>, 2003, New Orleans, La.
- 188. Dafny, N., Yang, P.B., Melicher, S., Castillo, J. and Swann, A.C. Rats in home cage compared to test cage exhibit different response to chronic Ritalin. Proc. Soc. Neurosci., 2003, New Orleans, La.
- 189. Yang, P.B, Swann, A.C. and Dafny, N. Behavioral sensitization is dependent on circumstances surrounding psychostimulant administration. <u>Proc. 66 CPDD</u>, 2004, Puerto Rico.
- 190. Swann, A.C., Yang, P.B. and Dafny, N. Development of cross sensitization with psychostimulants depends on environment cues. <u>Proc. 66 CPDD</u>, 2004, Puerto Rico.
- 191. Dafny, N., Yang, P.B. and Swann, A.C. Acute and chronic effects of methylphenidate on sensory evoked responses in the VTA and NAc of freely behaving rats. Proc. Soc. Neurosci. 2004.
- 192. Modi, G.M., Yang, P.B., Swann, A.C. and Dafny, N. Does NMDA (ecstasy) induce behavioral sensitization and cross sensitization with amphetamine or methylphenidate? <u>Proc. Soc. Neurosci.</u> 2004.
- 193. Yang, P.B., Swann, A.C. and Dafny, N. Does developmental of behavioral sensitization to methylphenidate depend on circumstances surrounding drug administration? <u>Proc.</u> Soc. Neurosci. 2004.
- 194. Yang, P.B., Swann, A.C. and Dafny, N. Acute effect of methylphenidate on sensory evoked responses in the VTA, PFC and NAc of freely behaving rats. Proc. 67, CPDD, 2005, Florida.
- 195. Dafny, N., Yang, P.B. and Swann, A.C.. Sex differences between young female and male SD rats in response to methylphenidate. Proc. 67, CPDD, 2005, Florida.
- 196. Yang, P.B., Swann, A.C. and Dafny, N. Acute and chronic methylphenidate modulate sensory evoked responses in the VTA, NAc, and PFC of freely behaving rats. <u>Soc. for Neurosci. Abstr.</u>, 2005 Meeting.
- 197. Dafny, N., Yang, P.B. and Swann, A.C. Age- and strain-related differences in the acute and chronic responses to methylphenidate. <u>Soc. for Neurosci. Abstr.</u>, 2005 Meeting.
- 198. Barron, E., Yang, P.B., Swann, A.C., Dafny, N. and Guynn, R. Does methylphenidate induce behavioral sensitization in SHR? <u>Soc. for Neurosci. Abstr.</u>, 2005 Meeting.
- 199. King, L.N., Yang, P.B., Swann, A.C. and Dafny, N. Does cocaine treatment in adolescence lead to cross-sensitization with methylphenidate in adulthood? <u>Soc. for Neurosci. Abstr.</u>, 2005 Meeting.
- 200. Atkins, K.D., Yang, P.B., Loveland, K.A., Swann, A.C. and Dafny, N. Sensitization and cross sensitization following methylphenidate, amphetamine and ecstasy. <u>Soc. for Neurosci.</u>, 2006.
- 201. Shah, N.B., Yang, P.B., Waymire, J.C., Swann, A.C. and Dafny, N. Methylphenidate-induced behavioral sensitization of young and adult rats demonstrated by wheel running open field procedures. <u>Soc. for Neurosci.</u>, 2006.

- Yamamoto, T., Mushin, O., Yang, P.B., Guynn, R., Swann, A. and Dafny, N. Neurophysiological and behavioral effects of cocaine in the VTA, NAc and PFC. <u>Soc. for Neurosci.</u>, 2006.
- 203. Yang, P.B., Swann, A.C., and Dafny, N. Chronic methylphenidate elicits neurophysiological sensitization in NAc and VTA. <u>Soc. for Neurosci.</u>, 2006.
- 204. Dafny, N., Yang, P.B., Swann, A.C. Caudate nucleus and prefrontal cortex express neurophysiological sensitization to methylphenidate. <u>Soc. for Neurosci.</u>, 2006.
- 205. Mushin, O., Yamamoto, T., Yang, P.B., Swann, A.C. and Dafny, N. Behavioral and neurophysiological effects of cocaine in the Amy, CN and PFC. <u>Soc. for Neurosci.</u>, 2006.
- 206. Algahim, M.E., Yang, P.B., Wilcox, V., Burau, K.D., Smolensky, M. and Dafny, N. Chronic methylphenidate modulate the circadian locomotor rhythm (CLR). 2nd Internat. Cong. of Applied Chronobiol. and Chronomedicine, March 2007, Tunisia.
- 207. Norrel, S.L., Reyes-Vasquez, C., Burau, K.D., Smolensky, M. and Dafny, N. Effect of alcohol consumption and withdrawal on rat circadian locomotor rhythm (CLR). 2nd. Internat. Cong. of Applied Chronobiol. and Chronomedicine, March 2007, Tunisia.
- 208. Glaser, A.M., Reyes-Vasquez, C., Burau, K..D., Smolensky, M. and Dafny, N. Effect of morphine treatment and withdrawal on circadian locomotor rhythm (CLF). 2nd Internat. Cong. of Applied Chronobiol. and Chronomedicine, March 2007, Tunisia.
- 209. Norrel, S.L., Reyes-Vasquez, C., Burau, K.D., Smolensky, M. and Dafny, N. Alcohol consumption and abrupt modulate the rat circadian locomotor activity pattern. <u>Soc. for Neurosci.</u>, 2007.
- 210. Lee, M.J., Swann, A.C. and Dafny, N. Prefrontal lesion modulate the acute and chronic effect of methylphenidate. <u>Soc. for Neurosci.</u>, 2007.
- 211. Glaser, A.M., Reyes-Vasquez, C., Loveland, K.A., Burau, K..D, Smolensky, M. and Dafny, N., Opioid treatment and withdrawal alters circadian locomotor activity pattern. <u>Soc. for Neurosci.</u>, 2007.
- 212. Kohlleppel, S., Yang, P.B., Wilcox, V., Burau, K.D., Smolensky, M. and Dafny, N. Methylphenidate (Ritalin) alter the circadian locomotor activity pattern of adult female WKY rats. <u>Soc. for Neurosci.</u>, 2007.
- 213. Algahim, M.F., Yang, P.B., Wilcox, V.T., Burau, K.D., Smolensky, M. and Dafny, N. Methylphenidate (Ritalin) alter the circadian locomotor actifvity pattern of male SD rats. Soc. for Neurosci., 2007.
- 214. Carrasco, A., Lee, M.S., Waymire, J.C., Swann, A.C., and Dafny, N. Psychostimulant and lesion in the neural motive circuit alter the morphine induced analgesia properties. <u>Soc. for Neurosci.</u>, 2008.
- 215. Podet, A., Lee, M.J., Swann, A.C., and Dafny, N. Nucleus accumbense lesion modulate the effects of acute and chronic methylphenidate treatment. <u>Soc. for Neurosci.</u>, 2008.
- 216. Kayyal, S. Yang, P.B., Wilcox, V.T., Burau, K.D., Swann, A.C., and Dafny, N. Adolescent and adult circadian rhythm activity modulated differently following chronic methylphenidate administration. <u>Soc. for Neurosci.</u>, 2008.
- 217. Jones, C.G., Yang. P.B., Wilcox, V.T., Burau, K.D., Swann, A.C., and Dafny, N. Amphetamine modulation of the circadian activity pattern of adult WKY female rats. <u>Soc.</u> for Neurosci., 2008.
- 218. Dafny, N. Interactive self-study electronic human neuroanatomy laboratory for medical and other students. <u>Soc. for Neurosci.</u>, 2008.

- 219. Wanchoo, S.J., Lee, M.J., Waymire, J.C., Swann, A.C., and Dafny, N., Glutamate of PFC has significant role in the acute and chronic effect of Methylphenidate. <u>Soc. for Neurosci.</u>, 2009.
- 220. Jones, C.G., Yang, P.B., Cox, V., Burau, K.D., Steinberg, J.L., Swann, A.C., Dafny, N., The effect of acute and chronic amphetamine treatment on the circadian rhythm activity pattern of Adolescent rats. <u>Soc. for Neurosci.</u>, 2009.
- 221. Tang, A., Wanchoo, S., Swann, A.C., Dafny, N. Amphetamine sensitization is prevented by prefrontal lesion. <u>Soc. for Neurosci.</u>, 2009.
- 222. Dafny, N., Wanchoo, S., Lee, M.J., Swann, A.C. Dopamine of prefrontal cortex is essential for expression of behavioral sensitization to methylphenidate. <u>Soc. for Neurosci.</u>, 2009.
- 223. Waymire, J.C., Sonne, A., Swann, A.C., Dafny, N. Effect of Ritalin and alcohol on rat locomotion. <u>Soc. for Neurosci.</u>, 2010.
- 224. Yang, P.B., Chelaru, A., Dafny, N. Acute methylphenidate administration alters prefrontal cortex neuronal activity. <u>Soc. for Neurosci.</u>, 2010.
- 225. Dafny, N., Yang, P.B., Chelaru, A. Chronic methylphenidate treatment alters PFC neuron baseline activity. <u>Soc. for Neurosci.</u>, 2010.
- 226. Claussen, C. and Dafny, N. Specific and non-specific bilateral lesioning of the caudate nucleus alter differently the acute and chronic effects of methylphenidate administration. 8th IBRO World Congress, Florence, Italy. 2011.
- 227. Reyes-Vazquez, C., Prieto-Gómez, B., Dafny, N. Acute and chronic effects of methylphenidate on multiunitary activity in five brain sites from adolescent rats. 103.06/XX63. 2011 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2011. Online.
- 228. Chong, S.L., Dafny, N. Nucleus accumbens neuronal activity in freely behaving rats is modulated following acute and chronic methylphenidate administration. 472.16/GG24. 2011 Neuroscience Meeting Planner. Washington, DC: <u>Society for Neuroscience</u>, 2011. Online.
- 229. Claussen, C.M., Dafny, N. Caudate nucleus neurons responding to acute and chronic methylphenidate administration 761.05/C10. 2011 Neuroscience Meeting Planner. Washington, DC: <u>Society for Neuroscience</u>, 2011. Online.
- 230. Dafny, N. Claussen, C., And Waymire, J.C. Electrical and 6-OHDA Caudate Nucleus lesion modulate differently the effect of methylphenidate. 761.09/C14. 2011 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2011. Online.
- 231. Tang, B., Aronowski, J., and Dafny, N. Methylphenidate modulates the locus ceruleus neuronal activity in freely behaving rats. <u>Society for Neuroscience</u>, 2012.
- 232. Jones, Z. and Dafny, N. Acute dose response effect of methylphenidate on Ventral Tegmental Area (VTA) neurons correlated with animal behavior. <u>Society of Neuroscience</u>, 2012.
- 233. Claussen, C. and Dafny, N. Behavioral and neuronal caudate nucleus activity was assessed following acute and chronic MPD exposure. Society for Neuroscience, 2012.
- 234. Dafny, N. and Tang, B. Acute and chronic Ritaline modulate the dorsal raphe neuronal activity in freely behaving rats. <u>Society for Neuroscience</u>, 2012.
- 235. Reyes-Vazquez, C., Prieto-Gómez, B., Dafny, N. Methylphenidate electrophysiological effects in nucleus accumbence from adolescent rats. <u>Society for Neuroscience</u>, 2012.

- 236. Prieto-Gómez, B., Reyes-Vazquez, C., Dafny, N. Acute and chronic effect of methylphenidate on Ventral Tegmental Area neurons in adolescent rats. <u>Society for Neuroscience</u>, 2012.
- 237. Claussen, C. and Dafny, N. Dose response characteristics of methylphenidate administration on caudate nucleus neurons recording from freely behaving rats. Federation of European Neurosciences (FENS), Barcelona, Spain, 2012.
- 238. Kohlleppel, S., Trinh, T. and Dafny, N. Chronic methylphenidate and long-term effects on adult female WKY rats. <u>CPDD 75th Annual Meeting</u>, San Diego, CA, 2013.
- 239. Trinh, T. and Dafny, N. Chronic methylphenidate elicits long-term effects in adolescent female WKY rats. <u>CPDD 75th Annual Meeting</u>, San Diego, CA, 2013.
- 240. Claussen, C. and Dafny, N. Methylphenidate dose response characteristics of caudate nucleus neuronal activity correlated with animal behavior. <u>CPDD 75th Annual Meeting</u>, San Diego, CA, 2013.
- 241. Dafny, N. and Claussen, C. Dose-response characteristics of nucleus accumbens neurons as assessed based on the animals behavioral response to chronic methylphenidate treatment. <u>CPDD 75th Annual Meeting</u>, San Diego, CA, 2013.

B. REFEREED ORIGINAL ARTICLES IN JOURNALS

- 1. Dafny, N.: Electric potentials of retina and cortex of rat and guinea pig evoked by monocular and binocular photic stimulation. Master's Thesis, Hebrew University, p. 1-65, 1964.
- 2. Dafny, N., Bental, E. and Feldman, S.: Effect of sensory stimuli on single unit activity in the posterior hypothalamus. EEG and Clin. Neurophysiol. 19:256-263, 1965.
- 3. Feldman, S. and Dafny, N.: Effect of hydrocortisone on single cell activity in the anterior hypothalamus. Israel J. Med. Sci. 2:621-623, 1966.
- 4. Dafny, N. and Feldman, S.: Effects of caudate nucleus stimulation and lesions on single cell activity in the anterior hypothalamus. EEG and Clin. Neurophysiol. 23:546-557, 1967.
- 5. Bental, E., Dafny, N. and Feldman, S.: Convergence of auditory and visual stimuli on single cells in the primary visual cortex of unanesthetized unrestrained cats. <u>Exp. Neurol.20:341-351</u>, 1968.
- 6. Feldman, S. and Dafny, N.: Acoustic responses in the hypothalamus. <u>EEG and Clin.</u> <u>Neurophysiol</u>. 25:150-159, 1968.
- 7. Feldman, S. and Dafny, N.: Modification of single cell responses in the posterior hypothalamus to sensory stimuli by caudate and globus pallidus stimulation and lesions. <u>Brain Res.</u> 10:402-417, 1968.
- 8. Dafny, N.: Single unit recording in the hypothalamus. Ph.D. dissertation, Hebrew University, p. 1-110, 1968.
- 9. Dafny, N. and Feldman, S.: Responsiveness of posterior hypothalamic neurons to striatal and peripheral stimuli. <u>Exp. Neurol</u>. 21:397-412, 1968.
- Dafny, N. and Feldman, S.: Effects of stimulating reticular formation hippocampus and septum on single cells in the posterior hypothalamus. <u>EEG and Clin. Neurophysiol.</u> 26:578-587, 1969.

- 11. Dafny, N. and Feldman, S.: Unit responses and convergence of sensory stimuli in the hypothalamus. <u>Brain Res</u>. 17:243-257, 1970.
- 12. Feldman, S. and Dafny, N.: Effects of adrenocortical hormones on the electrical activity of the brain. Prog. Brain Res. 32:90-101, 1970.
- Feldman, S. and Dafny, N.: Changes in single cell responsiveness in the hypothalamus in cats following cortisol administration. Brain Res. 20:369-377, 1970.
- 14. Feldman, S. and Dafny, N.: Effects of cortisol on unit activity in the hypothalamus of the rat. Exp. Neurol. 27:375-387, 1970.
- 15. Dafny, N. and Feldman, S.: Single cell activity in the hypothalamus in intact and adrenalectomized rats. Physiol. Behav. 5:873-878, 1970.
- Dafny, N., Peritz, E., Fischler, B. and Feldman, S.: Patterns of firing and factors determining responsiveness of units in the ventromedial hypothalamus in cats following sensory stimuli. Arch. Int. Physiol. Biochem. 78:869-882, 1970.
- 17. Phillips, M.I. and Dafny, N.: Effect of cortisol on unit activity in freely moving rats. <u>Brain</u> Res. 25:651-655, 1971.
- 18. Van Harreveld, A., Dafny, N. and Khattab, F.I.: Effect of calcium on the electrical resistance and the extracellular space of cerebral cortex. <u>Exp. Neurol</u>. 31:358-367, 1971.
- 19. Dafny, N. and Gilman, S.: L-DOPA and reserpine: Effect on evoked potentials in basal ganglia of freely moving rats. <u>Brain Res</u>. 50:187-191, 1973.
- Dafny, N. and Gilman, S.: Characterization of spontaneous unit activity in hypothalamus and reticular formation recorded with semi-microelectrodes. <u>Brain Res</u>. 59:243-257, 1973.
- Dafny, N., Phillips, M.I., Taylor, N.A. and Gilman, S.: Dose effects of cortisol on single unit activity in hypothalamus, reticular formation, and hippocampus of freely behaving rats, correlated with plasma steroid levels. Brain Res. 59:257-272, 1973.
- 22. Dafny, N.: Catecholamine alterations modify the neuronal recovery function in basal ganglia. Tex. Rep. Biol. Med. 32:581-582, 1973.
- 23. Dafny, N.: Hypothalamic evoked responses altered by pentobarbital in freely behaving rats. <u>EEG and Clin. and Neurophysiol</u>. 36:123-130, 1974.
- 24. Dafny, N. and Gilman, S.: Alteration of evoked potentials in caudate nucleus of freely moving rats by L-DOPA, reserpine and pentobarbital. <u>Exp. Neurol</u>. 42:51-64, 1974.
- 25. Dafny, N. and Gilman, S.: Monoamine effects on neuronal recovery cycles in globus pallidus, caudate nucleus, and substantia nigra. <u>J. Neurol. Trans</u>. 35:275-281, 1974.
- 26. Dafny, N., Dauth, G. and Gilman, S.: Differential effects of agents which alter CNS monoamine levels upon acoustic responses in the basal ganglia of freely moving rats. Int. J. Neurol. 10:53-67, 1975.
- 27. Woods, E.T. and Dafny, N.: An integrator for qualitative unit activity. <u>Physiol. Behav.</u> 14:113-115, 1975.
- 28. Dafny, N. and McClung, R.E.: Pineal body: Unicellular recordings. <u>Experientia</u> 31:321-322, 1975.
- 29. Dafny, N., McClung, R.E. and Strada, S.: Electrophysiological properties of the pineal body. I. Macro electrode study. <u>Life Sci.</u> 16:611-620, 1975.
- 30. McClung, R.E. and Dafny, N.: Electrophysiological properties of the pineal body. II. Single unit activity. <u>Life Sci.</u> 16:621-628, 1975.

- 31. Dafny, N.: Effects of reserpine and L-DOPA in the globus pallidus of freely behaving rats. Arch. Int. Pharmacodyn. Ther. 215:31-39, 1975.
- 32. Dafny, N.: Effect of substantia nigra stimulation on spontaneous unit activity in the caudate nucleus. <u>Exp. Neurol</u>. 47:503-508, 1975.
- 33. Dafny, N. and Jacobson, E.D.: Gastrointestinal hormones and neural interaction within the central nervous system. Experientia 31:658-659, 1975.
- 34. Dafny, N.: Catecholamines modulate potentials in the hypothalamus. Neuroendocrinology 18:42-54, 1975.
- 35. Dafny, N., Dauth, G. and Gilman, S.: A direct input from amygdaloid complex to caudate nucleus of the rat. Exp. Brain Res. 23:203-210, 1975.
- 36. Dafny, N.: Selective field potentials changes induced by L-DOPA. <u>Exp. Neurol</u>. 49:189-202, 1975.
- 37. Dafny, N. and Burks, T.F.: Neurophysiological changes in caudate nucleus and substantia nigra following morphine treatment. <u>Neuropharmacology</u> 15:547-554, 1976.
- 38. Dauth, G., Dafny, N. and Gilman, L.: Unit responses in hypothalamus and mesencephalic reticular formation to acoustic stimuli and electrical stimulation of ipsiand contralateral amygdala. Physiol Behav. 17:621-629, 1976.
- 39. Dafny, N.: Electrophysiological properties of caudate neurons following substantia nigra, motor cortex, and amygdaloid nuclear complex stimulation of the rat. <u>Appl. Neurophysiol.</u> 38:259-272, 1976.
- 40. Dafny, N. and Burks, T.F.: Opiate-independent effects of naloxone on the CNS: Neurophysiological approach. <u>Exp. Neurol</u>. 53:633-645, 1976.
- 41. Dafny, N. and Burks, T.F.: Opiate and endocrine interaction: Morphine effects on hypothalamus and pineal body. <u>Neuroendocrinology</u> 22:72-88, 1976.
- 42. Burks, T.F. and Dafny, N.: 5-Hydroxytryptamine participation in morphine effects on sensory evoked responses. <u>West. Pharmacol. Soc</u>. 20:393-398, 1977.
- 43. Schanzer, M.C., Jacobson, E.D. and Dafny, N.: Prostaglandins and appetite. <u>Prostaglandins and Ther</u>. 3:1-4, 1977.
- 44. Dafny, N. and Burks, T.F.: 5-HT and morphine interaction: Effects on sensory input in caudate nucleus and substantia nigra. Neuropharmacology 16:577-585, 1977.
- 45. Dafny, N.: Electrophysiological evidence of photic, acoustic and central input to the pineal body and hypothalamus. <u>Exp. Neurol</u>. 55:449-457, 1977.
- 46. Burks, T.F. and Dafny, N.: Morphine and 5-hydroxytryptamine interactions in rat hypothalamus and pineal body. <u>Exp. Neurol</u>. 55:458-468, 1977.
- 47. Burks, T.F. and Dafny, N.: Naloxone and morphine effects on sensory evoked responses. Neuropharmacology 16:681-686, 1977.
- 48. McClung, R.E., Burks, T.F. and Dafny, N.: Neurophysiological assessment of site specific effects of chronic morphine administration in freely behaving rats. <u>Arch. Int. Pharmacodyn. Ther</u>. 229:144-156, 1977.
- McClung, R., Reilly, E. and Dafny, N.: Urethane modification of EEG-like activity and acoustically evoked field potentials recorded from deep nuclei. <u>Appl. Neurophysiol</u>. 39:11-26, 1977.
- 50. Dafny, N.: Neurophysiological approach as a tool to study the effects of drugs on the central nervous system. I. Dose-effect of pentobarbital. Exp. Neurol. 59:263-274, 1978.

- Dafny, N. and Rigor, B.M.: Neurophysiological approach as a tool to study the effects of drugs on the central nervous system. II. Dose-effect of ketamine. <u>Exp. Neurol</u>. 59:275-285, 1978.
- 52. Schanzer, M.C., Jacobson, E.D. and Dafny, N.: Endocrine control of appetite: Gastrointestinal hormonal effects on CNS appetite structures. <u>Neuroendocrinology</u> 25:329-342, 1978.
- 53. Schanzer, M.C., Jacobson, E.D. and Dafny, N.: Neurophysiological approach as a tool to study the effect of drugs on the central nervous system. II. Effect of prostaglandins on structures related to appetite regulation. <u>Exp. Neurol</u>. 60:56-67, 1978.
- 54. McClung, R.E., Gosalia, A. and Dafny, N.: An inexpensive stimulus artifact suppression/signal investor for use while recording unit activity. Physiol. & Behav.21:829-831, 1978.
- 55. Dafny, N. and Rigor, B.M.: Dose effects of ketamine on photic and acoustic field potentials. Neuropharmacology 17:851-862, 1978.
- 56. Dafny, N., Brown, M., Rigor, B.M. and Burks, T.F.: Morphine acute effects on spontaneous multi-unit activity recorded simultaneously from medial thalamus and caudate nucleus in freely behaving rats. <u>Neurological Res</u>. 1:77-85, 1979.
- 57. Dafny, N., Brown, M., Burks, T.F. and Rigor, B.M.: Morphine tolerance and dependence: Sensitivity of caudate nucleus neurons. Brain Res. 162:363-368, 1979.
- 58. Dafny, N., Brown, M., Burks, T.F. and Rigor, B.M.: Unit activity recorded simultaneously from medial thalamus and caudate nucleus in naive and morphine-dependent rats. <u>Exp.</u> Neurol. 64:216-224, 1979.
- 59. Dafny, N., Brown, M., Burks, T.F. and Rigor, B.M.: Patterns of unit responses to incremental doses of morphine in central gray, reticular formation, medial thalamus, caudate nucleus, hypothalamus, septum and hippocampus in unanesthetized rats. Neuropharmacology 18:489-495, 1979.
- 60. Salamy, J.G., Sands, S.F. and Dafny, N.: The effects of morphine on visual evoked responses recorded in five brain sites. <u>Life Sci</u>. 24:1241-1250, 1979.
- 61. Dafny, N., Gonzales, L.P. and Altshuler, H.L.: Effects of cocaine on sensory evoked potentials recorded from hypothalamus and limbic structures. <u>Prog. Neuropsychopharmacol</u>. 3:353-361, 1979.
- 62. Dafny, N., Rigor, B.M. and Burks, T.F.: Dependence and tolerance: Multiunit recording from central gray, mesencephalic reticular formation and medial thalamus in freely behaving rats. Exp. Neurol. 68:217-227, 1980.
- 63. Dafny, N.: Two photic pathways contribute to pineal evoked responses. <u>Life Sci.</u> 26:737-741, 1980.
- Dafny, N. and Rigor, B.M.: Characterization of unit activity recorded from septum, thalamus, and caudate following incremental opiate treatments. <u>J. Neurosci Res</u>. 5:117-128, 1980.
- 65. Yeoman, R., Moreno, L., Rigor, B.M. and Dafny, N.: Enflurane effects on acoustic and photic evoked responses. Neuropharmacology 18:35-42, 1980.
- 66. Fuller, G.N., Rigor, B.M., Wiggins, R.C. and Dafny, N.: Does chronic halothane exposure alter brain electrical activity? Sensory evoked potentials recorded from cortex, diencephalon, and mesencephalon in freely behaving rats. <u>Subst. Alcohol Action</u> 1:35-43, 1980.

- 67. Dafny, N.: Multiunit recording from medial basal hypothalamus following acute and chronic morphine treatment Brain Res. 190:584-592, 1980.
- 68. Wiggins, R.C., Fuller, G.N. and Dafny, N.: The electroretinogram of adult rats following a period of postnatal undernutrition and prolonged nutritional rehabilitation. <u>Life Sci.</u> 26:1169-1174, 1980.
- 69. Rabe, L.S., Moreno, L., Rigor, B.M. and Dafny, N.: Halothane effects on evoked field potentials recorded from cortical and subcortical nuclei. <u>Neuropharmacology</u> 19:813-825, 1980.
- 70. McClung, R.E. and Dafny, N.: The parafascicular nucleus of the thalamus exhibits convergence input from the dorsal raphe and the spinal tract of the trigeminal nerve. Brain Res. 197:525-531, 1980.
- 71. DeFrance, J.F., Stanley, J.C., Taber, K.H., Marchand, J.E. and Dafny, N.L.: The effect of morphine on the excitability of hippocampal pyramidal cells. Exp. Neurol. 48:203-208, 1980.
- 72. Dafny, N.: Neurophysiological evidence for tolerance and dependence on opiates: Simultaneous multiunit recordings from septum, thalamus and caudate nucleus. <u>J. Neurosci. Res.</u> 5:339-349, 1980.
- 73. Dafny, N.: Photic input to rat pineal gland conveyed by both sympathetic and central afferents. J. Neural Transm. 48:203-208, 1980.
- 74. Reilly, E.L., Fuller, G.N., Wiggins, R.C., Rigor, B.M. and Dafny, N.: Chronic halothane modification of EEG-like activity recorded from somatosensory cortex and deep nuclei in freely behaving rats. Neurotoxicology 2:83-90, 1981.
- 75. Dafny, N., Marchand, J., McClung, R., Salamy, J., Sands, S., Wachtendorf, H. and Burks, T.F.: Effects of morphine on sensory evoked responses recorded from central gray, reticles formation, thalamus, hypothalamus, limbic system, basal ganglia, dorsal raphe, locus ceruleus and pineal body. <u>J. Neurosci. Res</u>. 5:399-412, 1981.
- 76. Dafny, N. and Burks, T.F.: Visual input to the rat pineal. <u>Experientia</u> 36:1331-1332, 1981.
- 77. Dafny, N. and Burks, T.F.: Selective modification by opiates of neuronal activity of the medical basal hypothalamus. <u>Exp. Neurol</u>. 72:1-11, 1981.
- 78. Yeoman, R., Rigor, B.M. and Dafny, N.: Altered caudate nucleus field potentials following sustained stimulation to different substantia nigra regions. <u>The Int. J. Neurosci</u>. 13:103-111, 1981.
- 79. Rabe, L., Buck, S.H., Moreno, L., Burks, T.F. and Dafny, N.: Neurophysiological and thermoregulatory effects of copsaicin. <u>Brain Res. Bull</u>. 5:755-758, 1981.
- 80. Schurr, A., Rigor, B.M., Ho, B.T. and Dafny, N.: Periaqueductal gray neurons response to microiontophoretically injected morphine in naive and morphine-dependent rat. <u>Brain Res. Bull</u>. 6:473-478, 1981.
- 81. Fuller, G.N., Rujirekagulwat, T., Wiggins, R.C. and Dafny, N.: Ethanol-induced modifications of sensory evoked potentials recorded from caudate, substantia nigra, hypothalamus and pineal. Neuropharmacology 20:861-867, 1981.
- 82. Andersen, E. and Dafny, N.: Effects of microiontophoretically applied 5-HT on morphine neurons in the parafascicularis nucleus. <u>Brain Res</u>. 241:176-178, 1982.
- 83. Dafny, N.: The hypothalamus exhibits electrophysiologic evidence for morphine tolerance and dependence. <u>Exp. Neurol</u>. 77:66-77, 1982.

- 84. Reyes,-Vazquez, C. and Dafny, N.: Response characteristics of thalamic neurons to microiontophoretically applied morphine. Neuropharmacology 21:733-738, 1982.
- 85. Schurr, A., Rigor, B.M., Ho, B.T. and Dafny, N.: Caudate neuronal response to microiontophoretically injected morphine in naive and morphine dependent rats. <u>Comp. Biochem. Physiol</u>. 73:205-210, 1982.
- 86. Schurr, A., Rigor, B.M., Ho, B.T. and Dafny, N.: Electrophysiological support in favor of multiple opiate receptors in the caudate and the central gray of the rat. Comp. Biochem. Physiol. 73:323-330, 1982.
- 87. Andersen, E. and Dafny, N.: Dorsal raphe nucleus modulate sensory evoked responses in caudate and septum. <u>The Int. J. Neurosci</u>. 17:151-157, 1982.
- 88. Wiggins, R.C., Fuller, G.N. and Dafny, N.: The propagation of photic evoked responses recorded from retina, optic chiasm, lateral geniculate body and visual cortex of the nutritionally rehabilitated rat visual system. Exp. Neurol. 77:644-653, 1982.
- 89. Tcholakian, R.K. and Dafny, N.: Chronic morphine effects on plasma testosterone, cortisol and accessory sex organs in the male rat. <u>Neuroendocrinol. Lett</u>. 4:305-312, 1982.
- Reyes- Vazquez, C., Prieto-Gomez, G. and Dafny, N.: Novel effects of interferon on the brain: Microiontophoretic application and single cell recording. <u>Neurosci. Lett</u>. 34:201-206, 1982.
- 91. Melamed, E. and Dafny, N.: Effect of electrical stimulation of nigrostriatal dopaminergic neurons on utilization of exogenous L-DOPA in rat corpus striatum. <u>J. Pharm.</u> Pharmacol. 34:820-822, 1982.
- 92. Dafny, N.: Modification of morphine withdrawal by interferon. <u>Life Sci</u>. 32:303-306, 1983.
- 93. Dafny, N., Burks, T.F. and Bergman, F.: Dose effects of morphine on the spontaneous unit activity recorded from thalamus, hypothalamus, septum, hippocampus, reticular formation, central gray and caudate nucleus. <u>J. Neurosci. Res</u>. 9:115-126, 1983.
- 94. Andersen, E., Rigor, B.M. and Dafny, N.: Electrophysiological evidence for concurrent dorsal raphe input to caudate, septum, habenula, thalamus, hippocampus, cerebellum and olfactory bulb. Int. J. Neurosci. 18:107-117, 1983.
- 95. Schurr, A., Rigor, B.M., Ho, B.T. and Dafny, N.: Various inputs modify caudate neuronal activity. Neurol. Res. 5:31-43, 1983.
- 96. Andersen, E. and Dafny, N.: Dorsal raphe stimulation reduces responses of parafascicular neurons to noxious stimulation. <u>Pain</u> 15:323-332, 1983.
- 97. Reyes-Vazquez, C. and Dafny, N.: Does naloxone have functional significant activity on medial thalamic neurons: Microiontophoretical study. <u>Life Sci</u>. 32:1443-1448, 1983.
- 98. Dafny, N.: Evidence that the rat pineal has neuronal connections via the pineal stalk. Exp. Neurol. 79:858-861, 1983.
- 99. Andersen, E. and Dafny, N.: An ascending serotonergic pain modulation pathway from the dorsal raphe nucleus to the parafasciculus nucleus of the thalamus. <u>Brain Res.</u> 269:57-67, 1983.
- 100. Feldman, S., Papir-Kricheli, D. and Dafny, N.: Single cell multiunit activity in freely moving rats following corticosterone administration. <u>Exp. Neurol</u>. 80:427-438, 1983.
- 101. Dafny, N.: Interferon modifies morphine withdrawal phenomena in rodents. Neuropharmacology 22:647-651, 1983.

- 102. Dafny, N.: Interferon modifies EEG and EEG-like activity recorded from sensory, motor, and limbic system structures in freely behaving rats. <u>Neurotoxicology</u> 4:235-240, 1983.
- Prieto-Gomez, B., Reyes-Vazquez, C. and Dafny, N.: Differential effects of interferon on ventromedial hypothalamus and dorsal hippocampus. <u>J. Neurosci. Sci</u>. 10:273-278, 1983.
- 104. Dafny, N., Zielinski, M. and Reyes-Vazquez, C.: Alteration of morphine withdrawal to naloxone by interferon. Neuropeptides 3:453-464, 1983.
- Reyes-Vazquez, C. and Dafny, N.: Microiontophoretically applied THIP effects upon nociceptive responses on neurons in the medial thalamus. <u>Appl. Neurophysiol</u>. 46:254-260, 1984.
- 106. Prieto-Gomez, B. and Dafny, N.: Effects of morphine on spontaneous, dorsal raphe, spinal tract of trigeminal nucleus, medial lemniscus and reticular lateral magnocellular evoked responses of hypothalamic units in naive and morphine physically dependent rats. Int. J. Neurosci. 23:131-146, 1984.
- Prieto-Gomez, B., Reyes-Vazquez, C. and Dafny, N.: Microiontophoretic application of morphine and naloxone in rat hypothalamus neurons. <u>Neuropharmacology</u> 23:1081-1089, 1984.
- Reyes-Vazquez, C. and Dafny, N.: Microiontophoretically applied morphine and naloxone on single cell activity in the parafasciculus nucleus of naive and morphine-dependent rats. <u>J. Pharmacol. Exp. Ther.</u> 229:583-588, 1984.
- 109. Dafny, N. and Gildenberg, P.: Morphine effects spontaneous nociceptive, antinociceptive and sensory evoked responses of parafasciculus thalami units in morphine naive and morphine-dependent rats. <u>Brain Res</u>. 323:11-20, 1984.
- Dafny, N.: Interferon as a candidate endogenous substance preventing tolerance and dependence to brain opioids. <u>Prog. Neuropsychopharmacol. Biol. Psychiatry</u> 8:351-357, 1984.
- 111. Reyes-Vazquez, C., Weisbrodt, N. and Dafny, N.: Does interferon exert its actions through opiate receptors. <u>Life Sci</u>. 35:1015-1021, 1984.
- 112. Reyes, Vazquez, C., Prieto-Gomez, B., Georgiades, J.A. and Dafny, N.: Alpha and gamma interferon effects on cortical and hippocampal neurons: Microiontophoretic application and single cell recording. Int. J. Neurosci. 25:113-121, 1984.
- 113. Dafny, N. and Reyes-Vazquez, C.: Three different types of interferons alter naloxone-induced abstinence in morphine-addicted rats. <u>Immunopharmacology</u> 9:13-17, 1985.
- 114. Dafny, N., Wagle, V.G. and Drath, D.B.: Cyclosporine alters opiate withdrawal in rodents. Life Sci. 36:1721-1726, 1985.
- 115. Dafny, N., Prieto-Gomez, B. and Reyes-Vazquez, C.: Does the immune system communicate with the central nervous system: Interferon modifies central nervous activity. J. Neuroimmunology 9:1-12, 1985.
- 116. Prasad, C.M., Pardo, L., Rigor, B.M. and Dafny, N.: Dose effects of halothane on sensory evoked responses obtained from the cortex, reticular formation and central gray. Int. J. Neurosci. 27:91-100, 1985.
- 117. Fuller, G.N., Rigor, B.M., Wiggins, R.C. and Dafny, N.: Prolonged daily halothane inhalation modifies the dose-response pattern to acute halothane: An electrophysiological study. Neuropharmacology 24:1033-1038, 1985.

- 118. Reyes-Vazquez, C. and Dafny, N.: Interaction of norepinephrine and superior cervical ganglion input in the rat pineal body. <u>Exp. Neurol</u>. 90:522-528, 1985.
- 119. Dafny, N. and Pellis, N.R.: Evidence that opiate addiction is in part an immune response: Immune system destruction by irradiation altered opiate withdrawal. <u>Neuropharmacology</u> 25:815-818, 1986.
- 120. Reyes-Vazquez, C., Prieto-Gomez, B., Aldes, L.D. and Dafny, N.: The rat pineal exhibits two electrophysiological patterns of response to microiontophoresis norepinephrine application. <u>J. Pineal Res</u>. 13:213-222, 1986.
- Reyes-Vazquez, C., Enna, S.J. and Dafny, N.: The parafasciculus thalami as a site for mediating the antinociceptive response to GABAergic drugs. <u>Brain Res</u>. 383:177-184, 1986.
- 122. Pellis, N.R., Harper, C. and Dafny, N.: Suppression of the induction of delayed hypersensitivity in rats by repetitive morphine treatments. <u>Exp. Neurol</u>. 93:92-97, 1986.
- Dougherty, P.M., Aronowski, J., Samorajski, T. and Dafny, N.: Opiate antinociception is altered by immune modification: The effect of interferon, cyclosporine and radiationinduced immune suppression upon acute and long-term morphine activity. <u>Brain Res.</u> 385:401-404, 1986.
- Dougherty, P.M., Harper, C. and Dafny, N.: The effect of alpha-interferon, cyclosporine A and radiation-immune suppression on morphine-induced hypothermia and tolerance. <u>Life</u> <u>Sci</u>. 39:2191-2197, 1986.
- 125. Dougherty, P.M., Aronowski, J., Drath, D. and Dafny, N.: Evidence of neuroimmunologic interaction: Cyclosporine modifies opiate withdrawal by effect on the brain and immune components. J. Neuroimmunol. 13:331-342, 1987.
- Pellis, N.R., Kletzly, N.E., Dougherty, P.M., Aronowski, J. and Dafny, N.: Participation of lymphoid cells in the withdrawal syndrome of opiate dependent rats. <u>Life Sci</u>. 40:1589-1593, 1987.
- 128. Montgomery, S.P. and Dafny, N.: Cyclophosphamide and cortisol reduce the severity of morphine withdrawal. <u>The Int. J. Immunopharmacol</u>. 9:453-458, 1987.
- 129. Dougherty, P.M., Pearl, J., Krajewski, K.J., Pellis, N.R. and Dafny, N.: Differential modification of morphine and methadone dependence by interferon alpha. Neuropharmacology 26:1595-1600, 1987.
- 130. Dougherty, P.M. and Dafny, N.: Irradiation exposure modulates central opioid functions. <u>Exp. Neurol</u>. 98:301-316, 1987.
- 131. Dougherty, P.M., Drath, D. and Dafny, N.: Evidence of an immune system to brain communication axis that affects central opioid functions: Muramyl peptides attenuate opiate withdrawal. <u>Eur. J. Pharmacol</u>. 141:253-260, 1987.
- Fuller, G.N., Lin, S.-N., Caprioli, R.M., Wiggins, R.C. and Dafny, N.: Dose-related differential accumulation of morphine in specific regions of rat brain determined by massfragmentography. <u>The Int. J. Neurosci</u>. 38:31-38, 1988.
- 133. Dafny, N., Lee, J.R. and Dougherty, P.M.: Immune response products alter CNS activity: Interferon modulates central opioid function. J. Neurosci. Res. 19:130-139, 1988.

- 134. Dougherty, P.M. and Dafny, N.: Neuro-immune inter-communication, central opioids and the immune response to bacterial endotoxin. J. Neurosci. Res. 19:140-148, 1988.
- 135. Qiao, J.-T. and Dafny, N.: Dorsal raphe stimulation modulates nociceptive responses in thalamic parafascicular neurons via an ascending pathway: Further studies on ascending pain modulation pathways. <u>Pain</u> 34:65-74. 1988.
- 136. Dafny, N., Gillman, M.A. and Lichtigfeld, F.J.: Cholecystokinin induced suppression of feeding in fed, fasting and hypothalamic island rats. <u>Brain Res Bull</u>. 21:225-231, 1988.
- 137. Qiao, J.-T., Skolnick, M. and Dafny, N.: Dorsal raphe and external electrical stimulation modulate noxious input to single neurons in nucleus parafascicularis thalami. <u>Brain Res.</u> Bull. 21:671-675, 1988.
- 138. Dougherty, P.M. and Dafny, N.: Cyclosporine effects CNS opioid activity via direct and indirect means. <u>Brain Behav. and Immunity</u> 2:242-253, 1988.
- 139. Dafny, N., Dougherty, P.M. and Pellis, N.R.: The immune system and opiate withdrawal. Int. J. Immunopharmacol. 11:371-375, 1989.
- 140. McVaugh, W., Lawrence, B., Kulkarni, A., Pizzini, R., Van-Buren, C., Rudolph, F., Wolinsky, I. and Dafny, N.: Suppression of opiate withdrawal by cyclosporine A and dietary modification. <u>Life Sci.</u> 44:977-983, 1989.
- 141. Dougherty, P.M. and Dafny, N.: Trans-cranial electrical stimulation attenuates the severity of naloxone-precipitated morphine withdrawal in rats. <u>Life Sci.</u> 44:2051-2056, 1989.
- 142. Reyes-Vazquez, C., Prieto-Gomez, B. and Dafny, N.: Noxious and non-noxious responses in the medial thalamus of the rat. <u>Neurol. Res</u>. 11:177-180, 1989.
- 143. Prieto-Gomez, B., Dafny, N. and Reyes-Vazquez, C.: Dorsal raphe stimulation, 5-HT and morphine microiontophoresis effects on noxious and non-noxious identified neurons in the medial thalamus of the rat. <u>Brain Res. Bull</u>. 22:937-943, 1989.
- 144. Reyes-Vazquez, C., Qiao, J.-T. and Dafny, N.: Nociceptive responses in nucleus parafascicularis thalami are modulated by dorsal raphe stimulation and microiontophoretic application of morphine and serotonin. <u>Brain Res. Bull.</u> 23:405-411, 1989.
- 145. Qiao, J.-T., Dougherty, P.M., Wiggins, R.C. and Dafny, N.: Effects of microiontophoretic application of cocaine alone and with receptor antagonists upon the neurons of the medial prefrontal cortex, nucleus accumbens, and caudate nucleus of rats. Neuropharmacol. 29:379-385, 1990.
- 146. Dafny, N. and Terkel, J.: Hypothalamic neuronal activity associated with onset of pseudopregnancy in the rat. <u>Neuroendocrinol</u>. 51:459-467, 1990.
- 147. Dougherty, P.M., Pellis, N.R. and Dafny, N.: The brain and the immune system: An intact immune system is essential for the manifestation of withdrawal in opiate addicted rats. Neurosciences 36:285-289, 1990.
- 148. Dafny, N. and Qiao, J.-T.: Habenular neuron responses to noxious input are modified by dorsal raphe stimulation. <u>Neurol. Res.</u> 12:117-122, 1990.
- 149. Dougherty, P.M. and Dafny, N.: Muramyl-dipeptide, a macrophage-derived cytokine, alters neuronal activity in hypothalamus and hippocampus but not in the dorsal raphe/periaqueductal gray of rats. Neuroimmunol. 28:201-208, 1990.

- 150. Dougherty, P.M., Qiao, J.-T., Wiggins, R.C. and Dafny, N.: Microiontophoresis of cocaine, desipramine, sulpiride, methysergide, and naloxane in habenula and parafasciculus. <u>Exp. Neurol.</u> 108:241-246, 1990.
- 151. Dafny, N., Reyes-Vazquez, C. and Qiao, J.-T.: Modification of nociceptively identified neurons in thalamic parafascicularis by chemical stimulation of dorsal raphe with glutamate, morphine, serotonin and focal dorsal raphe electrical stimulation. <u>Brain Res.</u> Bull. 24:717-723, 1990.
- 152. Dougherty, P.M., Dong, W.-Q., Faillace, L.A. and Dafny, N.: Trans-cranial electrical stimulation attenuates abrupt morphine withdrawal in rats assayed by remote computerized quantification of multiple motor behavior indices. <u>Eur. J. Pharmacol.</u> 175:187-195, 1990.
- 153. Dougherty, P.M. and Dafny, N.: Microiontophoretic application of muramyl-dipeptide upon single cortical, hippocampal and hypothalamic rat neurons. <u>Neuropharmacol</u>. 29:973-980, 1991.
- 154. Casada, J.H. and Dafny, N.: Restraint stress modulates sensory evoked potentials. <u>Inter.</u> J. Neurosci. 53:265-274, 1991.
- Dong, W.-Q., Qiao, J.-T., Skolnick, M. and Dafny, N.: Fofcal dorsal raphe stimulation and pineal electrical stimulation modulate spontaneous and noxious evoked responses in thalamic neurons. <u>Inter. J. Neurosci</u>. 57:123-140, 1991.
- 156. Casada, J.H. and Dafny, N.: Restraint and stimulation of bed nucleus of the stria terminalis produce similar stress-like behaviors. <u>Brain Res. Bull.</u> 27:207-212, 1991.
- 157. Casada, J.H., and Dafny.: Evidence for two different afferent pathways carrying stress-related information (noxious and amygdala stimulation) to the bed nucleus of the stria terminalis. <u>Brain Res</u>. 579:93-92, 1992.
- 158. Dong, W.-Q., Wilson, O.B., Skolnick, M.H., and Dafny, N.: Hypothalamic dorsal raphe and external electrical stimulation modulate noxious worked responses of habenula neurons. Neuroscience 48:933-940, 1992.
- 159. Li, J., Ji, Y.-P., Qiao, J.-T., and Dafny, N.: Suppression of nociceptive responses in parafascicular neurons by stimulation of substantia migra" An analysis of related inhibitory pathways. Brain Res. 591:109-115, 1992.
- 160. Liu, Q.S., Qiao, J.T., and Dafny, N.: D₂ dopamine receptor involvement in spinal dopamine-produced antinociception. <u>Life Sciences</u> 51:1485-1492, 1992.
- 161. Liu, F.-Y., Qiao, J.-T., and Dafny, N.: Cerebellar stimulation modulates thalamic noxious evoked responses. Brain Res. Bull. 30:529-535, 1993.
- 162. Casada, J.H. and Dafny, N.: Responses of neurons in bed nucleus of the stria terminalis to microiontophoretically applied morphine, norepinephrine and acetylcholine. Neuropharmacol. 32:279-284, 1993.
- 163. Dafny, N., Dougherty, P.M.: Noninvasive subthreshold auricular stimulation reduces the severity of precipitated and abrupt opiate withdrawal. <u>Brain Res. Bull</u>. 31:491-493, 1993.
- 164. Casada, J.H. and Dafny, N.: Muscarinic receptors mediate the effect of acetylcholine (ACh) on neurons of the bed nucleus of stria terminalis (BNST). <u>Brain Res</u>. 631:124-128, 1993
- 165. Williams, C.L., Rosenfeld, G.C., Dafny, N., Fang, S-N., Hruby, V.J., Bowden, G., Cullinan, C.A., and Burks, T.F.: SNF9007: A novel analgesic that acts simultaneously at *Delta*₁, *Delta*₂ and *Mu* opioid receptors. J. Pharmacol. Exp. Ther. 269:750-755, 1994.

- 166. Yang, S-W, Zhang, Z-H, Chen, J-Y, Xie, Y-F, Qiao, J-T, and Dafny, N.: Morphine and norepinephrine-induced antinociception at the spinal level is mediated by adenosine. <u>NeuroReport</u>, 5:1441-1444, 1994.
- 167. Yang, S-W, Zhang, Z-H, Wang, R., Xie, Y-F, Qiao, J-T, and Dafny, N.: Norepinephrine and serotonin-induced antinociception are blocked by naloxone with different dosages. Brain Res. Bull. 35:113-117, 1994.
- 168. Reyes-Vazquez, C., Prieto-Gomez, B., and Dafny, N.: Alpha-interferon suppresses food intake and neuronal activity of the lateral hypothalamus. <u>Neuropharmacology</u> 33:1545-1552, 1994.
- Yan, H.Q., Mazow, M.L., and Dafny, N. Monocular visual deprivation at the critical period modulates photic evoked responses. <u>Brain Res. Bull.</u>, 36:545-548, 1995.
- 170. Yang, S.W., Chen, J.Y., Zhang, Z.H., Xie, Y.F., Qiao, J.T., and Dafny, N. Adenosine and opiate-like substances mediates antinociception at the spinal cord. <u>Brain Res.</u>, 673:170-174, 1995.
- 171. Zhang, Z.H., Yang, S.W., Chen, J.Y., Xie, Y.F., Qiao, J.T., and Dafny, N. Interaction of serotonin and norepinephrine in spinal antinociception. <u>Brain Res. Bull.</u>, 38:167-171, 1995.
- 172. Dafny, N., Dong, W.Q., Prieto-Gomez, B., Reyes-Vazquez, C. Lateral hypothalamus: site involved in pain modulation. Neuroscience, 70:449-460, 1995.
- 173. Yan, H.Q., Mazow, M.L. and Dafny, N. Visual deprivation at the critical period modulate photic evoked responses. <u>Int. J. Neurosci.</u>, 83:241-252, 1995.
- 174. Dougherty, P.M., and Dafny, N. Restraint stress reduces the effects of muramyl-dipeptide in awake rats. Pharmacol. (Life Sci. Adv.) 14:99-113, 1995.
- 175. Yan, H.Q., Mazow, M.L., and Dafny, N. NGF prevents the changes induced by monocular deprivation during the critical period in rats. Brain Res. 706:318-322, 1996.
- 176. Gaytan, O., Swann, A.C., and Dafny, N., Effects of amphetamine at the beginning of the light cycle on multiple indices of motor activity in the rat. <u>European J. of Pharmacol.</u>, 300:1-8, 1996.
- 177. Gaytan, O., Ghelani, D., Martin, S., Swann, A.C., and Dafny, N., Dose response characteristics of methylphenidate on different indices of rats' locomotor activity at the beginning of the dark cycle. <u>Brain Res.</u>, 727:13-21, 1996.
- 178. Dafny, N., Prieto-Gomez, B., Dong, W.-Q., and Reyes-Vazquez, C., Interferon modulates neuronal activity recorded from the hypothalamus, thalamus, hippocampus, amygdala and the somatosensory cortex. Brain Res., 734:269-274, 1996.
- 179. Yang, S.-W., Zhang, C., Zhang, Z.-H., Qiao, J.-T., and Dafny, N. Sequential mediation of norepinephrine and dopamine induced antinociception at the spinal level: involvement of different local neuroactive substances. <u>Brain Res. Bull.</u>, 41:105-109, 1996.
- 180. Zhang, C., Yang, S.-W., Guo, Y.-G., Qiao, J.-T., and Dafny, N. Locus coeruleus stimulation modulates the nociceptive response in parafascicular neurons: An analysis of descending pathways. <u>Brain Res. Bull.</u>, 42:273-278, 1997.
- 181. Reyes-Vasquez, C., Mendoza-Fernandez, V., Herrera-Rhiz, M., and Dafny, N. Interferon modulates glucose sensitive neurons in the hypothalamus. <u>Exper. Brain Res.</u>, 116:519-524, 1997.
- 182. Gaytan, O., Al-Rahim, S., Swann, A.C., and Dafny, N. Sensitization to locomotor effects of methylphenidate in the rat. <u>Life Sciences</u>, 61:PL101-107, 1997.

- 183. Kulkarni, A.D., McVaugh, W., Lawrence, B., Pizzini, R., Wolinsky, I., VanBuren, C., Rudolph, F. and Dafny, N. Nutritional supplementation of nucleotides restores opioid CNS-mediated phenomena in mice. <u>Life Sciences</u>, 61:1691-1696, 1997.
- 184. Gaytan, O., Ghelani, D., Martin, S., Swann, A., and Dafny, N. Methylphenidate: Diurnal effects on locomotor and stereotypic behavior in the rat. <u>Brain Res.</u>, 777:1-12, 1997.
- 185. Liu, R.-J., Wang, R., Nie, H., Zhang, R.-X., Qiao, J.-T., and Dafny, N. Effects of intrathecal monoamine antagonists on the nociceptive c-Fos expression in a lesioned rat spinal cord. Int. J. Neurosci., 91:169-180, 1997.
- 186. Gaytan, O., Swann, A. and Dafny, N. Time dependent differences in the rat's motor response to amphetamine. Pharmacol. Physiol. and Behav, 59:459-467, 1998.
- 187. Kang, Y.-M., Zhang, Z.-H., Yang, S.-W., Qiao, J.-T, and Dafny, N. ATP-sensitive K+ channels are involved in the mediation of intrathecal norepinephrine-or morphine-induced antinociception at the spinal level: a study using EMG planimetry of flexor reflex in rats. Brain Res. Bull, 45:269-273,1998.
- 188. Yang, S.-W., Guo, Y.-Q., Kang, Y.-M., Qiao, J.-T., and Laufman, L.E. and Dafny, N. Different GABA-receptor types are involved in the 5-HT-induced antinociception at the spinal level: A behavioral study. <u>Life Sciences</u>, 62:PL143-149, 1998.
- 189. Zhang, C., Guo, Y.-Q, Qiao, J.-T., and Dafny, N. Locus coeruleus modulate thalamic nociceptive responses via adrenoceptors. Brain Res., 784:116-122, 1998.
- 190. Bjork, J.M., Gaytan, O., Patt, N., Swann, C., and Dafny, N. Behavioral tolerance to and withdrawal from multiple fluxetine administration. <u>Int. J. Neurosci.</u>, 93:163-179, 1998.
- 191. Dafny, N. Is interferon- α a neuromodulator? <u>Brain Res. Review</u>, 1998, 26:1-15.
- 192. Yang, S.-W., Kang, Y.-M., Guo, Y.-Q., Qiao, J.-T., and Dafny, N. ATP-sensitive potassium channels mediate norepinephrine- and morphine-induced antinociception at the spinal cord level, Int. J. Neurosci., 93:217-223, 1998.
- 193. Gaytan, O., Swann, S., Dafny, N. Diurnal differences in rat's motor response to amphetamine. <u>Eur. J. Pharmacol</u>, 345:119-128, 1998.
- 194. Yang, S.-W., Liu, R.-J., Qiao, J.-T., Laufman, L.E., Dafny, N. Adenosine mediate spinal norepinephrine-produced antinociception as revealed by nociceptive discharges in parafascicular neurons in rats. <u>Brain Res.</u>, 798:320-324, 1998.
- 195. Shripad, S., Gaytan, O., Al-rahim, S., Swann, A., and Dafny, N. Dose-related effects of MK-801 on acute and chronic methylphenidate administration. <u>Brain Res.</u>, 814: 78-85, 1998.
- 196. Gaytan, O., Lewis, C., Swann, A., and Dafny, N. Diurnal differences in amphetamine sensitization. Europ. J. Pharmacol, 374:1-9,1999.
- 197. Liu, R.-J., Zhang, R.-X., Qiao, J.-T., and Dafny, N. Interrelations of opioids with monoamines in descending inhibition of nociceptive transmission at the spinal level: an immunocytochemical study. Brain Res., 830:183-190,1999.
- 198. Zhao, Y., Zhang, C., Kang, Y.-M., Qiao, J.-T., and Dafny, N. Endogenous adenosine involved in the mediation of spinal antinociception produced by stimulating locus coeruleus. <u>Life Sciences</u>, 65:67-74,1999.
- 199. Gaytan, O., Yang, P., Swann, A., and Dafny, N. Diurnal differences in sensitization to metyhlphenidate. <u>Brain Res</u>. 864:24-39, 2000.

- 200. Gaytan, O., Nason, R., Alagugurusamy, R., Swann, A., Dafny, N. MK 801 blocks the development of sensitization to the locomotor effects of methylphenidate. <u>Brain Res. Bull.</u>, 51:485-492, 2000.
- 201. Kang, Y.-M., Chen, Onyang, W., J.-Y., Qiao, J.T., and Dafny, N. Norepinephrine modulates single hypothalmic arcuate neurons via α , and β adrenergic receptors. Brain Res. 869:146-157, 2000.
- 202. Yang, P., Swann, A., and Dafny, N. NMDA receptor antagonist disrupt acute and chronic effects of methylphenidate. Physiol. And Behav., 71:133-145, 2000.
- 203. Yang, P. Beasley, A., Swann, A., and Dafny, N. Valproate modulates the expression of methylphenidate (Ritalin) sensitization. Brain Res. 874:216-220, 2000.
- 204. Yang, P., Beasley, A., Eckermann, K., Swann, A. and Dafny, N. Valproate prevents the induction of sensitization to methylphenidate (Ritalin) in rats. <u>Brain Res.</u>, 887:276-284, 2000.
- 205. Gaytan, O., Sirpada, S., Swann, A. and Dafny, N. Blockade of sensitization to methylphenidate by MK-801: Partial dissociation from motor effects. <u>Neuropharmacol.</u>, 40:298-309, 2001.
- 206. Ma, J., Qiao, J.T. and Dafny, N. Opiate-like substances mediate norepinephrine-induced but not serotonin-induced antinociception at spinal level: Reevaluation by an electrophysiological model of formalin test in rats. Life Sci., 69:969-976, 2001.
- 207. Sirpada, S., Gaytan, O., Swann, A. and Dafny, N. The role of MK-801 in sensitization to stimulant. <u>Brain Res. Rev.</u>, 35:97-114, 2001.
- 208. Eckermann, K., Beasley, A., Yang, P., Gaytan, O., Swann, A. and Dafny, N. Methylphenidate sensitization is modulated by valproate. <u>Life Sci.</u>, 69:47-57, 2001.
- 209. Yang, P., Singhal, N., Modi, G., Swann, A., and Dafny, N. Effects of lithium on induction and expression of methylphenidate sensitization. <u>Eur. J. of Pharmacol.</u>, 426:65-72, 2001.
- 210. Gaytan, O., Swann, A., and Dafny, N. Disruption of sensitization to methylphenidate by a single administration of MK-801. <u>Life Sci.</u>, 70:2271-2285, 2002.
- 211. Yang, P.B., Swann, A., and Dafny, N. Valproate prevents the induction and the expression of MK-801 sensitization. <u>Brain Res.</u>, 954:151-159, 2002.
- 212. Yang, P.B., Amini, B., Swann, A. and Dafny, N. Strain differences in the behavioral responses of male rats to chronic methylphenidate. <u>Brain Res.</u>, 971:139-152, 2003.
- 213. Yang, P.B., Swann, A.C. and Dafny, N. Chronic pretreatment with methylphenidate induces cross-sensitization with amphetamine. <u>Life Sci.</u>, 73:2899-2911, 2003.
- 214. Kang, Y.-M., Chen, J.-Y., Ouyang, W., Qiao, J.-T., Reyes-Vazquez, C. and Dafny, N. Serotonin modulates hypothalamic neuronal activity. <u>Int. J. Neurosci.</u>, 114:299-319, 2003.
- 215. Han, B.-F., Zhang, C.E., Reyes-Vazquez, C., Qiao, J.-T. and Dafny, N. ATP-sensitive potassium channels and endogenous adenosine are involved in spinal antinociception produced by locus coeruleus stimulation. Int. J. Neurosci. 114:961-974, 2004.
- 216. Prieto-Gomez, B., Benitez, M.T., Vazquez-Alvarez, A.M., Yang, P.B., Reyes-Vazquez, C. and Dafny, N. Dopaminergic ventral tegmental neurons modulated by methylphenidate. <u>Life Sci.</u>, 74:1581-1592, 2004.

- 217. Amini, B., Yang, P.B., Swann, A.C. and Dafny, N. Differential locomotor responses in male rats from three strains to acute methylphenidate. <u>Int. J. Neurosci.</u>, 114:1063-1084, 2004.
- 218. Ribeiro, S., Yang, P.B., Reyes-Vazquez, C., Swann, A and Dafny, N. Sex differences in tail flick latency of non-stressed and stressed rats. <u>Int. J. Neurosci.</u>, 115:1383-1395, 2005.
- 219. Dafny, N. and Yang, P.B. Interferon and the central nervous system. <u>Eur. J. Pharmacol.</u>, 523: 1-15, 2005.
- 220. Zhang, Y., Qiao, J.T. and Dafny, N. C-fos antisense oligodeoxynucleotide effects behavioral nociceptive responses and both up-regulations of c-fos protein and dynorphin A (1-8) in dorsal horn: A study using the formalin test in rats. <u>Int. J. Neurosci.</u>, 115:935-948, 2005.
- 221. Prieto-Gomez, B., Vazquez-Alvarez, A.M., Martinez-Peña, J.L., Reyes-Vazquez, C., Yang, P.B. and Dafny, N. Methylphenidate and amphetamine modulate differently the MNDA and AMPH glutamatergic transmission of dopaminergic neurons in the ventral tegmental area. <u>Life Sci.</u>, 77:635-649, 2005.
- 222. Nie, H., Wang, H., Zhang, R.-X., Gao, W.-C., Qiao, J.-T. and Dafny, N. Is protein kinase C (PKC) involved in nociception? Int. J. Neurosci., 116:1115-1124, 2006.
- 223. Dafny, N. and Yang, P.B. The role of age, genotype, sex and route of acute and chronic administration of methylphenidate: a review of its locomotor effects. <u>Brain Res. Bull</u>. 68:393-405, 2006.
- 224. Modi, G.M., Yang, P.B.., Swann, A.C. and Dafny, N. Chronic exposure to MDMA (Ecstasy) elicits behavioral sensitization in rats fails to induce cross-sensitization to other psychostimulants. <u>Behav. & Brain Function</u>, 2:1-11, 2006.
- 225. Yang, P.B., Swann, A.C. and Dafny, N. Dose response characteristics of methylphenidate on locomotor behavior and on sensory evoked potentials recorded from VTA, NAc and PFC in freely behaving rats. Behav. & Brain Function, 4:25-36, 2006.
- 226. Yang, P.B., Swann, A.C. and Dafny, N. Sensory evoked potentials recording from the ventral tegmental area, nucleus accumbens, prefrontal cortex and caudate and locomotor activity are modulated in dose response characteristics by methylphenidate. <u>Brain Res.</u> 1073:164-174, 2006.
- 227. Yang, P.B., Swann, A.C. and Dafny, N. Chronic methylphenidate modulates locomotor activity and sensory evoked responses in the VTA and NAc of freely behaving rats. Neuropharmacol., 51:546-556, 2006.
- 228. Yang, P.B., Swann, A.C. and Dafny, N. Acute and chronic methylphenidate doseresponse assessment on three different male rat strains. <u>Brain Res. Bull.</u>, 71:301-310, 2006.
- 229. Yang, P.B., Swann, A.C. and Dafny, N. Chronic administration of methylphenidate produces neurophysiological and behavioral sensitization. <u>Brain Res.</u>, 1145:66-80, 2007.
- 230. Askenasy, E.P., Yang, P.E., Taber, K.H. and Dafny, N. Methylphenidate (Ritalin): Behavioral studies in the rats. <u>Int. J. Neurosci.</u>, 117:757-794, 2007.
- 231. Yang, P.B., Swann, A.C., and Dafny, N. Methylphenidate treated at the test cage-dose dependent sensitization or tolerance depend on the behavioral assay used. <u>Critical Review in Neurobiology</u>, 19, 59-77, 2007.

- 232. Lee, M.J., Swann, A.C., Dafny, N. Methylphenidate sensitization is prevented by prefrontal cortex lesion. <u>Brain Res. Bull</u>. 76, 131-140, 2008.
- 233. King, L.W., Yang, P.B., Swann, A.C. and Dafny, N. Does a rat's exposure to cocaine during adolescence affect its response to cocaine in adulthood? <u>Internat. J. Neurosci.</u>, 119: 879-907, 2009.
- 234. Barron, E., Yang, P.B., Swann, A.C., and Dafny, N. Adolescent and adult male spontaneous hyperactive rats (SHR) respond differently to acute and chronic methylphenidate (Ritalin). Int. J. Neuroscience, 119: 40-58, 2009.
- 235. Algahim, M.F., Yang, P.B., Wilcox, V.T., Burau, K.D., Swann, A.C., Dafny, N. Prolong methylphenidate treatment alters the behavioral diurnal activity pattern of adult male Sprague-Dawley rats. Pharmacol.biochem. and Behav., 92: 93-99, 2009.
- 236. Lee, M.J., Yang, P.B., Wilcox, V.T., Burau, K.D., Swann, A.C., and Dafny, N. Does repetitive Ritalin injection produce long-term effects on SD female adolescent rats? Neuropharmacol. 2009, 57: 201-207.
- 237. Wanchoo, S.J., Swann, A.C., and Dafny, N. Descending glutamatergic pathway of PFC are involved in acute and chronic action of methylphenidate. <u>Brain Res.</u>, 1301:68-79, 2009.
- 238. Tang, A., Wanchoo, S.J., Swann, A.C., and Dafny, N. Psychostimulant treatment for ADHD modulated by prefrontal cortex manipulation. Brain Res Bull., 80: 353-358, 2009.
- 239. Atkin, K., Tilithia, B., Swann, A.C., and Dafny, N. MDMA (Ecstasy) modulates locomotor and prefrontal cortex sensory evoked activity. <u>Brain Res.</u>, 1302: 175-182, 2009.
- 240. Wanchoo, S.J., Lee, M.J., Swann, A.C., and Dafny, N. Bilateral six-hydroxydopamine administration to PFC prevents the expression of behavioral sensitization to methylphenidate. <u>Brain Res.</u>, 1312; 89-100, 2010.
- 241. Yang, P.B., Swann, A.C., and Dafny, N. Psychostimulant given to adolescence modulate their effects in adulthood using the open field and the wheel running assays. <u>Brain Res.</u> Bull., 82: 208-217, 2010.
- 242. Podet, A., Lee, M.J., Swann, A.C., and Dafny, N. Nucleus accumbens lesions modulate the effect of methylphemnidate. Brain Res. Bull., 82: 293-301, 2010.
- 243. Norrel, S., Reyes-Vasquez, C., Burau, K.D., and Dafny, N. Alcohol usage and abrupt cessation modulate circadian activity. <u>Brain Res. Bull.</u>, 83: 51-64, 2010.
- 244. Algahim, M.F., Yang, P.B., Burau, K.D., Swann, A.C., and Dafny, N. Repetitive Ritalin Treatment Modulates the Diurnal Activity Pattern of Young SD Male Rats. <u>Central</u> Nervous System Agents in Medicinal Chemistry, 10:247-257, 2010.
- 245. Lee, M.J., Yang, P.B., Wilcox, V.T., Burau, K.D., Swann, A.C., and Dafny, N. Repetitive methylphenidate administration modulates the diurnal behavioral activity pattern of adult female SD rats. <u>J. of Neural Transmission</u>, 118:285-298, 2011.
- Yang, P.B., Cuellar, D.O., Swann, A.C., and Dafny, N. Age and genetic strain differences in response to chronic methylphenidate administration. <u>Behavioral Brain Res.</u>, 218:206-217, 2011.
- 247. Reyes-Vasquez, C. and Dafny, N. N. Interferon and the central nervous system. <u>Brain</u> Immune Integration Consortium. 2011.
- 248. Yang, P.B., Atkins, K.D., Dafny, N. Behavioral sensitization and cross sensitization between methylphenidate, amphetamine, and 3.4-methylenedioxymethamphetamine (MDMA) in female SD rats. Eur. J. Pharmacol. 661:72-85, 2011.

- 249. Glasser, A.U., Reyes-Vasquez, C., Burau, K.D., and Dafny, N. Continue morphine administration and abrupt cessation alter the normal locomotor circadian activity pattern. <u>Pharmacology, Biochemistry and Behav.</u>, 101:544-552, 2012,.
- 250. Chelaru, M. I., Yang, P.B. and Dafny, N. Sex differences in the behavioral response to methylphenidate in three adolescent rat strains (WKY.SHR.SD). <u>Behavioral Brain Res.</u> 226; 8-17, 2012.
- 251. Reyes-Vasquez. C., Prieto-Gomez, B., and Dafny N. Interferon modulates central nervous system function. Brain Res., 1442:75-89, 2012.
- 252. Bergheim. M, Yang, P.B., Burau, K.D., Dafny, N. Adolescent rat circadian activity is modulated by psychostimulants. <u>Brain Res.</u>, 1431:35-45, 2012.
- 253. Claussen, C. and Dafny, N. Acute and chronic methylphenidate modulates the neuronal activity of the caudate nucleus recorded from freely behaving rats. <u>Brain Res. Bull.</u> 87:387-396, 2012.
- 254. Chong, S.L., Claussen, C. and Dafny, N. Nucleus accumbens neuronal activity in freely behaving rats modulated following acute and chronic methylphenidate administration Brain Res. Bull. 87:445-456, 2012.
- 255. Claussen, C., Chong, S.L. and Dafny, N. Selective bilateral lesion to caudate nucleus modulates the acute and chronic methylphenidate effects. Pharmacol.Biochem.and-Behav., 101:208-216, 2012.
- Salek, R.L., Perez, A. and Dafny, N. Acute and chronic methylphenidate alters prefrontal cortex neuronal activity recorded from freely behaving rats. <u>Eur. J. Pharmacol</u>. 679:60-67, 2012.
- 257. Tang, B. and Dafny, N. Methylphenidate modulates the locus ceruleus neuronal activity in freely behaving rat. <u>Eur J Pharmacol.</u> 695:48-56, 2012.
- 258. Trinh, N.T., Kohlleppel, S., Yang, P. Wilcox, V.T., Burau, K. and Dafny, N. Adult female rats altered diurnal locomotor activity pattern following chronic methylphenidate treatment. J. Neural Trans., 120:1717-1731, 2013.
- 259. Tang, B. and Dafny, N. Dorsal raphe neuronal activities are modulated by methylphenidate. <u>J. Neural Trans.</u>, 120:721-731, 2013.
- 260. Lee, M.J., Barrau, K.D. and Dafny, N. Behavioral daily rhythmic activity pattern of adolescent female rat is modulated by acute and chronic cocaine. <u>J. Neural Trans.</u>, 120:733-744, 2013.
- 261. Jones, Z. and Dafny, N. Dose response effect of methylphenidate on ventral tegmental area neurons correlate with animal behavior. Brain Res. Bull. 2013 96:86-92, 2013.
- 262. Tang, B. and Dafny, N. Behavioral and dorsal raphe neuronal activity following acute and chronic methylphenidate in freely behaving rats. <u>Brain Res. Bull.</u> 98: 53-63, 2013.
- 263. Claussen, C. and Dafny, N. Acute administration of methylphenidate alter the prefrontal cortex neuronal activity in dose response characteristics. Exper. Pharmacology, 2014 (In Press).
- 264. Jones, Z. and Dafny, N. Acute and chronic dose response effect of methylphenidate on ventral tegmental area neurons correlated with animal behavior. <u>J. of Neural Transmission</u>, 2014 (In Press).
- 265. Dafny, N. The properties of methylphenidate on animal behavior. <u>Frontier in Neuroscience</u>, 2014 (In Press).

- 266. Jones, C.G., Yang, P.B., Wilcox, V.T., Burau, K.D. and Dafny, N. Acute and chronic psychostimulant treatment modulates the diurnal activity pattern of WKY female adolescent rats. <u>J. of Neural Transmission</u>, 2014 (In Press).
- 267. Claussen, C.M., Chong, S.L. and Dafny, N. Nucleus accumbens activity correlates to the animal's behavioral response to acute and chronic methylphenidate. Physiol. & Behav., 2014 (In Press).

C. INVITED CHAPTERS AND REVIEW ARTICLES

- 1. Dafny, N. and Feldman, S.: Effects of extrahypothalamic structures on sensory projection to hypothalamus. <u>The Hypothalamus</u>. Academic Press, 1970.
- 2. Feldman, S. and Dafny, N.: Effects of extrahypothalamic structures on sensory projection to hypothalamus. In The Hypothalamus. Martini, L., Motta, M. and Fraschini, F. (Eds.). pp. 103-114, 1970.
- 3. Taylor, N.A., Matheson, G.K. and Dafny, N.: Modifications of the responsiveness of components of the limbic midbrain circuit by corticosteroids and ACTH. In <u>Steroid Hormones and Brain Function</u>. UCLA Press, pp. 67-78, 1971.
- Copack, P., Dafny, N. and Gilman, S.: Neurophysiological evidence of vestibular projections to thalamus, basal ganglia and cerebral cortex. Fourth Symposium of the Parkinson's Disease Research Center. In <u>Corticothalamic Projections and Sensorimotor Activities</u> Frigyesi, T., Rinvik, E. and Yahr, M.O. (Eds.). Raven Press, New York, pp. 309-339, 1972.
- 5. Dafny, N. and Jacobson, E.D.: Cholecystokinin and central nervous regulation of appetite, In <u>Gastrointestinal Hormones</u>. Thompson, J.C. (Ed.) University of Texas Press, Austin, pp. 643-649, 1975.
- 6. Dafny, N.: A model to study catecholaminergic and cholinergic mechanisms within the CNS with relation to movement disorder. In <u>Phenomenology and Treatment of Tardive Dyskinesia</u>. John Wiley Press, 1980.
- 7. Andersen, E. and Dafny, N.: An ascending serotonergic pathway modulates noxious input to the thalamus. <u>Serotonin in Biological Psychiatry</u>. Raven Press, 1982.
- 8. Dafny, N.: Interferon as a candidate preventing and attenuating opiate addiction. Endocoids. Alan R. Liss, Inc. Press: New York, 1985.
- 9. Dafny, N., Dougherty, P.M. and Pellis, N.R.: The immune system and morphine dependence. <u>National Institute on Drug Abuse Research Monograph Series</u>, 1989, pp. 293-295.
- Dafny, N., Dougherty, P.M. and Drath, D.: Immunosuppressive agent modulates the severity of opiate withdrawal. <u>National Institute of Drug Research Monograph Series</u>, 1990, 105:553-555.
- 11. Dougherty, P.M., Qiao, J.T., Wiggins, R.C. and Dafny, N.: Cocaine interaction with sulpiride, neostriatal neuronal activity. <u>National Institute of Drug Research Monograph</u> Series, 1990, 105:612-614.
- Dougherty, P.M. and Dafny, N.: Interaction of immune cytokines and CNS opioids: A possible interface for stress-induced immune suppression. In <u>Stress and Immunity</u>, N.P. Plotnikoff, A. Murgo, R. Faith, J. Wybran, (Eds.), CRC Press Boca Raton Ann Arbor London, Chapter 23 pp. 373-385, 1991.

- Dafny, N., Prieto-Gomez, B., and Reyes-Vazquez, C. Effects of interferon on the central nervous system. In <u>Interferon Therapy in Multiple Sclerosis</u>, A.T. Reder (Ed.) Marcel Dekker, 1996, Chapter 5 pp. 115-137.
- 14. Dafny, N., Neurophysiological evidence of tolerance and dependence on morphine. In <u>Drug Abuse in the Decade of the Brain</u>, G. G. Nahos and T.F. Burks (Eds.), IOS Press 1997, Chapter 2 pp. 11-20.
- 15. Dafny, N. Is interferon-∞ a neuromodulator? Brain Res. Review, 1998, 26:1-15.
- 16. Dafny, N. Interferon and the central nervous system. In: <u>Cytokines-stress and Immunity</u>, A. Plotnikoff, R. Faith, A. Murgo, and D. Good (Eds). CRC Press Inc. 1999, Chapter 15, pp. 221-232.
- 17. Dafny, N., Yang, P.B., Brod, S.A. Interferon. In: <u>Encyclopedia of Endocrinology and Endocrine Diseases</u>, L. Martini (Ed.) Elsevier Science, USA, 2004, pp. 53-59.
- 18. Dafny, N. and Yang, P.B. and Brod, S.A. Interferons in health and disease. In: <u>Stress and Immunity</u>. N.P. Plotnikoff (Ed.), CRC, 2005.
- 19. Askenasy, E. and Dafny, N. The parafascicular nucleus and its role in pain modulation. In: <u>Encyclopedic Reference of Pain</u>, R.F. Schmidt and W.D. Willis (Eds.), 2006.
- 20. Dafny, N. Yang, P.B. Interferon and the central nervous system: A Review. <u>Eur. J.</u> Pharmocology, 2005, 523: 1-15.
- 21. Dafny, N. and Yang, P.B. The role of age genotype, sex and route of acute and chronic administration of methylphemidate: A review of its locomotor effects. <u>Brain Res. Bull.</u> 2006. 68: 393-405.
- 22. Dafny, N., Yang, P.B., Brod, S.A. Interferon in health and disease. In: <u>Cytokine-stress and Immunity</u>. A. Plotnioff, A., R. Furth, A. Aargo and D. Good (Eds.), CRC Press Inc., pp. 253-279, 2006.
- 23. Askenasy, E. and Dafny, N. Parafascicular nucleus, pain modulation. In: <u>Encyclopedia of Pain</u>. R.F. Schmidt, W.D. Willis (Eds.), Springer, 2007.
- 24. Askenasy, E., Yang, P.B., Taber, K.H. and Dafny, N. Methylphenidate (Ritalin): Behavioral studies in the rats (Review). Inter. J. Neurosci., 117: 757-794, 2007.
- 25. Dafny, N., Yang, P.B., and Swann, A.C. Methylphenidate treatment in adolescent modulate its effect in adulthood. In: Neurodevelopment: Assessments, Anomalies, and Outcomes. F.Columbus (Ed.) Nova Science Publishers, Inc., 2008 (In Press).
- 26. Algahim, M.F., Yang, P.B., Wilcox, V.T., Burau, K.M., Swann, A.C. and Dafny, N. Chronic methylphenidate modulate the circadian activity pattern of adolescent SD male rats. In: <u>Attention Deficit Hyperactivity Disorder (ADHD).</u> S.M. Gordon and A.E. Mitchell (Eds.) Nova Science Publishers, Inc., 2009, Chapter 10 pp. 581-598.
- 27. Dafny, N., Yang, P.B., and Swann, A.C. Does exposure to methylphenidate during adolescence affect the response to methylphenidate in adulthood? In: <u>Advance in Psychology Research</u>. Alexandra. M. Columbus (Ed.) Nova Science Publishers, Inc., 2010 (In Press). Chapter 8. Vol. 69.
- 28. Dafny, N. Methylphenidate and Related Compounds. In: <u>Encyclopedia of Psychoparmacology</u>. Ian P. Stolerman (Ed.) Springer-Verlay Berlin Heidelberger, 2010.
- 29. Dafny, N. The Parafascicular Nucleus and its Role in Pain Modulation and in Deep Brain Stimulation. In: <u>Encyclopedia of Pain</u>. 2nd Edition. R.F. Schmidt and W.D. Willis (Eds.), Springer, 2010.

- Reyes-Vasquez, C. and Dafny, N. Interferon and the Central Nervous System. In: <u>Brain Immune Communication</u>. Ilia Elenko (Ed.) Brain Immune Integration Consortium. Arlington, VA 22204. 2011.
- 31. Dafny, N. and Askenasy, E. Parafasciculus Nucleus, Pain Modulation. In <u>Encyclopedia of Pain</u>. R.F. Schmidt, G.F. Gebhart (Eds.), Spring-Valag Berlin, Heidelberg, 2013.
- 32. Reyes-Vasquez, C., Prieto-Gomez, B. and Dafny, N. Interferon modulate CNS function. Brain Res. Rev., 2012, 1442:75-89.
- 33. Dafny, N. The properties of Methylphenidate on animal behavior. <u>Frontier in Neurosci.</u>, 2014 (In Press).

OTHER PROFESSIONAL COMMUNICATIONS, INVITED PRESENTATIONS AND SYMPOSIA:

- 1. Neural and humeral interaction of corticosteroids. Symposium on Neuroendocrinology. Winter Brain Conference. Aspen, Colorado, 1970.
- 2. Extrahypothalamic contribution to hypothalamic function. UCLA Brain Research Institute. Los Angeles, California, 1970.
- 3. Input-output relation of the hypothalamus. Cal-Tech Biological Division. Pasadena, California, 1970.
- 4. Neurophysiological evidence of vestibular projections to basal ganglia. Fourth Symposium of Parkinson's Disease. College of Physicians and Surgeons of Columbia University. New York, 1971.
- 5. The role of dopamine on hypothalamic function. Neurology Institute, College of Physicians and Surgeons of Columbia University. New York, 1971.
- 6. Limbic and Extrapyramidal interaction. Behavioral Science Division, College of Physicians and Surgeons of Columbia University. New York, 1972.
- 7. Correlation of hypothalamic units behavior to peripheral inputs. Department of Neurology and Anatomy, The University of Texas Medical School at Houston, 1972.
- 8. How the hypothalamus units control the levels of the stress hormone? Department of Physiology, Baylor College of Medicine. Houston, Texas, 1972.
- 9. Effects of monoamine on basal ganglia activity. Sixth Fulton Symposium. International Neurology Congress. Barcelona, Spain, 1973.
- Is dopamine an inhibitor neurotransmitter? Department of Neurophysiology, College de France. Paris, France, 1973.
- 11. The role of catecholamine on hypothalamus function. Department of Pharmacology, Free University. Amsterdam, Holland, 1973.
- The extrapyramidal system as a neuronal machine for integration motor activity. Department of Physiology, The University of Texas Medical School at San Antonio. San Antonio, Texas, 1974.
- 13. Gut hormones and CNS interaction. Symposium of Gastrointestinal Hormones. The University of Texas Medical Branch. Galveston, Texas, 1975.
- 14. Opiate and catecholamine interaction. Department of Pharmacology, University of Houston, 1977.
- 15. Neurophysiological studies of hormones and drug interaction in the brain. Department of Psychiatry, University of Houston, 1977.

- 16. Neurophysiological approaches as a tool for the study of drug effect on the CNS. Houston Pharmacology Society. 1977.
- 17. Morphine discrimination sensory input recorded from several brain sites. First International Symposium on Drugs as Discriminative Stimuli. Antwerp, Belgium, 1978.
- 18. Morphine discrimination of unit activity patterns recorded from central gray, caudate nucleus and parafasciculus thalami. First International Symposium on Drugs as Discriminative Stimuli. Antwerp, Belgium, 1978.
- Gastrointestinal hormone control appetite. Gastrointestinal forum. Houston, Texas, 1978.
- 20. Is the pineal an endocrine gland or neuronal modulator? Instituto Mexicano del Seguor. Mexico, City, Mexico, 1978.
- 21. Electrophysiological studies of morphine and neurotransmitter substances in the brain. Department of Pharmacology, The University of Arizona Health Sciences Center, Arizona College of Medicine, Tucson, 1978.
- 22. Neurophysiology as a tool in physical medicine and rehabilitation. Baylor College of Medicine. Houston, Texas, 1979.
- 23. The search for morphine site specificity. Hebrew University, Hadassah Medical School. Jerusalem, 1979.
- 24. Neurotransmitter and opiate interaction. Weizman Institute. Rehovot, Israel, 1979.
- 25. The pineal as a neuroregulator. Department of Anatomy, University of Oregon Medical School. Eugene, Oregon, 1979.
- 26. Electrophysiological signs of tolerance and dependence. Symposium on Electrophysiological Effect of Opioid Drugs at the American Society for Pharmacology and Experimental Therapeutics. Portland, Oregon, 1979.
- 27. Is the pineal body a gland or a neuromodulator? Neuroscience Center, Baylor College of Medicine. Houston, Texas, 1979.
- 28. Is the pineal also a neuromodulator? Department of Pharmacology, The University of Arizona Health Sciences Center. Tucson, Arizona, 1980.
- 29. Is the pineal also a neuromodulator? California Institute of Technology. Pasadena, California, 1980.
- 30. Is the pineal also a neuromodulator? City of Hope. Duarte, California, 1980.
- 31. Is the pineal also a neuromodulator? UCLA and Brain Research Institute. Los Angeles, California, 1980.
- 32. The search for morphine specific sites in the CNS. University of Michigan. Ann Arbor, Michigan, 1980.
- 33. Are the basal ganglia involved in pain perception and drug addiction? University of Cincinnati College of Medicine. Cincinnati, Ohio, 1980.
- 34. Is the pineal the seat of the soul? The University of Iowa College of Medicine. Iowa City, Iowa, 1980.
- 35. The basal ganglia involvement in drug dependent and withdrawal. Department of Neurology, Hadassah Medical School. Jerusalem, Israel, 1981.
- 36. Is the pineal the seat of the soul? The Faculty of Science, Hebrew University. Jerusalem, Israel, 1981.
- 37. Neurophysiological signs of tolerance and physical dependent on morphine? Tel-Aviv Neuroscience Faculty, Sackler School of Medicine. Tel Aviv, Israel, 1981.

- 38. Opiate, tolerance and dependence. Department of Pharmacology, Hadassah Medical School. Jerusalem, Israel, 1981.
- 39. The use of evoked potential to assess brain functions. Department of Psychology, Tel Aviv University. Tel Aviv, Israel, 1981.
- 40. Demonstration of behavioral and electrophysiological dependence on opiates. The Southwest Science Forum Symposium. Houston, Texas, 1981.
- 41. Is there a site in the brain responsible for drug addiction? Howard University College of Medicine. Washington, D.C., 1982.
- 42. Effects of morphine on the CNS and possibilities for eliminating its side effects. Temple University School of Medicine. Philadelphia, Pennsylvania, 1982.
- 43. Acute and chronic effects of morphine, possible elimination of morphine side effects by interferon. University of Maryland School of Pharmacy. Baltimore, Maryland, 1982.
- 44. Pineal-brain neuronal connection. Neuroendocrinology LDN, The National Institutes of Health. Bethesda, Maryland, 1982.
- 45. Neurophysiological characteristics of opiate tolerance and addiction: Effects of interferon. University of The Witwatersrand. Johannesburg, Australia, 1983.
- 46. Opiate addiction. South African Brain Research Institute. Johannesburg, Australia, 1983.
- 47. Demonstration of behavioral and neurophysiological effects on addiction to opiates and the possibility of eliminating morphine side effects by interferon. Western Psychiatric Institute and Clinic, University of Pittsburgh, Pennsylvania, 1983.
- 48. Interferons as endocoids. First International Symposium on Endocoids. Fort Worth-Dallas, Texas, 1984.
- 49. Opiates and the immune system. Division of Immunology, The University of Texas Medical School at Houston, 1985.
- 50. Opiate physical dependence. Department of Pharmacology, The University of Texas Medical School at Houston, 1986.
- 51. Immunological and neurophysiological aspects of opiate addiction. The Marine Biomedical Institute. Galveston, Texas, 1986.
- 52. Evidence for reciprocal communication between the immune system and the CNS via the opioid system. Department of Pharmacology, University of Houston, 1987.
- 53. Evidence that opioid systems are involved in reciprocal communication between the immune system and the central nervous system. UCLA Symposium on Neural-Immune Interactions, Lake Tahoe, California, March, 1988.
- 54. Drug Abuse and the Immune System. 50th Annual Scientific Meeting, The Committee on Problems of Drug Dependence, Inc., North Falmouth, MA, June 28-30, 1988.
- 55. Pain and the immune system. Recent Achievement in Restorative Neurology. Houston, Texas, October, 1988.
- 56. The immune system and morphine dependence. 51st Annual Scientific Meeting. The Committee on Problems of Drug Dependence. Keystone, Colorado, June, 1989.
- 57. Does the brain know what's going on in the immune system? Hadassah Medical School. Department of Physiology, Jerusalem, July, 1989.
- 58. Interferon effects on the central nervous system. M.D. Anderson Hospital and Tumor Institute Neuro-Oncology. October 1989.
- 59. Evidence that the parasciculus thalami is a pain center. Eighth Annual Conference on Biomedical Engineering Research. Houston, February, 1990.

- 60. Identification of pain centers. University of Houston-Downtown. March, 1990.
- 61. Drug abuse and the immune system Center for Addiction Research and Education. West Virginia HSC Morgantown, WV, June, 1990.
- 62. Immunosuppressive agent modulates the severity of opiate withdrawal. 52nd Annual Scientific Meeting, The Committee on Problem of Drug Dependence. Richmond, Virginia, June, 1990.
- 63. Cocaine interaction with receptor antagonists: Neurophysiological effects on mesolimbic and neostriatal activity. 52nd Annual Scientific Meeting, The Committee on Problem of Drug Dependence, Richmond, Virginia, June, 1990.
- 64. Drug abuse and the immune system Texas College of Osteopathic Medicine, September 1990.
- 65. Interferon as a neuromodulator Louisiana State University of Medicine. Department of Pharmacology, June 1991.
- 66. Noninvasive subthreshold auricular electrical stimulation reduces severity of precipitated and abrupt opiate withdrawal. 53rd Annual Scientific Meeting, The Committee on Problem of Drug Dependence. Palm Beach Florida, June, 1991.
- 67. Delta and non-delta opioid receptor mediated antinociception produced by cholecystokinin analogues. 53rd Annual Scientific Meeting, The College on Problem of Drug Dependence, Key Stone, Colorado, June 1992.
- 68. Animal studies with interferon The University of Texas M.D. Anderson Cancer Center, November 1992.
- 69. Pain Mechanism Hebrew University, Jerusalem, Israel, May 1993.
- 70. Brain immune communication Tel Aviv University, Israel, May 1993.
- 71. Opiate addiction and the immune system Faculdad de Medicina, Universidad National Autonoma de Mexico, Mexico City, Mexico, August 1994.
- 72. Neurophysiological demonstration of pain modulation centers Faculdad de Medicina, Universidad National Autonoma de Mexico, Mexico City, Mexico, August 1994.
- 73. Structure and function relationship of the brain limbic system, frontal cortex and memory banks. Symposium on "Drug abuse in the decade of the brain". Houston Texas, September, 1995.
- 74. Interferon- α modulate neuronal activity MD-Anderson Cancer Center-Neuro-oncology. Houston, Texas, April, 1996.
- 75. Opiate dependence and the immune system. Department of Psychiatry and Behavioral Sciences. Houston, Texas, January, 1998.
- 76. Morphine and the immune system. Department of Clinical Pharmacology Baylor College of Medicine. Houston, Texas, October, 1998.
- 77. Supra-spinal pain modulation centers. King's College, London, U.K. March, 1999.
- 78. What is new in pain research. Geriatric Inst. Tel-Aviv University. July, 1999.
- 79. Opioid-immune System Interaction St. Bartholomew Hospital London, U.K. July 2000.
- 80. Tom Burks as role model in teaching research and administration. XIVth World Congress of Pharmacology, San Francisco, CA, July 2002.
- 81. Vistor Professor-Teach Medical Neuroscience 27 hrs in the "Programa International de la Facultad de Medicina" Universidad Autonoma De Guadalajara Mexico, August/Sept. 2006.

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82. Visitor Professor-Teach 10 lectures in Neurophysiology in the Medical School at the "American Carribean University", St. Maarten, Sept 2008.