

CURRICULUM VITAE

PETER M. NARINS

Departments of Physiological Science and Ecology & Evolutionary Biology, UCLA
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PERSONAL: Born October 10, 1943, Far Rockaway, New York. Married Olivia Gubler. 1 son, 1 daughter

EDUCATION:

B.S.	1965	Cornell University, Electrical Engineering
M.E.E.	1966	Cornell University, Electrical Engineering
Ph.D.	1976	Cornell University, Neurobiology and Behavior
Postdoc.	1976-78	University of Keele, UK; Dept. of Communication & Neuroscience

ACADEMIC APPOINTMENTS:

1966-1970	Instructor, Dept. of Elec. Eng., Catholic U., Santiago, Chile (U.S. Peace Corps Volunteer).
1970-1973	Instructor, Dept. of Elec. Eng., Cornell U., Ithaca, NY
1976-1978	Post-doctoral Fellow, Dept. of Communication and Neuroscience, Univ. of Keele, Keele, U.K.
1978-1983	Assistant Professor, Dept. of Biology, UCLA.
1983-1987	Associate Professor, Dept. of Biology, UCLA
1987-1994	Professor, Dept. of Biology, UCLA.
1994-present	Professor, Dept. of Physiological Science, UCLA.
2002-2004	Professor, Dept. of OBEE Biology, UCLA.
2004-present	Professor, Dept. of Ecology and Evolutionary Biology, UCLA.

HONORS AND AWARDS:

Grass Fellowship, Woods Hole, MA, 1975
NIH Post-doctoral Fellowship, Keele, UK, 1976-1978
Career Development Award, UCLA, 1979, 1982
Biology Faculty Teaching Award, UCLA, 1982
Inaugural Jasper Loftus-Hills Memorial Lecture, Melbourne, Australia, 1983
Invited Organizer- Plenary Session "Selective Pressures on the Behavior of Frogs" at the XVIIIth International Ethological Conference, Brisbane, Australia, 1983
Selected as the 1983 Science, Engineering and Diplomacy Fellow, in the Bureau of Oceans and International Environmental and Scientific Affairs, U.S. Dept. of State. (Declined)
Senior U.S. Scientist Award, Alexander von Humboldt Foundation, Munich, Germany, 1985-1986
Fulbright Award, Montevideo, Uruguay, 1988
Founder's Award, Animal Behavior Society, 1990
Distinguished Faculty Teaching Award, UCLA, 1990
Keynote speaker at 16th Annual West Coast Biological Sciences Undergraduate Research Conference, Santa Clara University, May, 1991
Keynote speaker at Annual Midwest Neurobiologists Meeting, University of Missouri, Columbia, MO, March, 1992
Keynote speaker at Annual UCLA Alumni Association Meeting, Portland, Oregon, May, 1992
Fred Lang Memorial Friday Night Lecture, Woods Hole, MA, Aug. 1992

HONORS AND AWARDS (CONT'D):

Invited speaker at 14th International Congress of Acoustics, Beijing, September, 1992

Fellow, John Simon Guggenheim Foundation, 1993

Fellow, Acoustical Society of America, 1993

Citation: "*For contributions to understanding animal bioacoustics*"

Associate Editor, *Auditory Neuroscience*, 1994-1997

American Editor, *Journal of Comparative Physiology A*, 1995-present

Honorary Member, Golden Key Honor Society, 1996

Gold Shield Faculty Prize, UCLA, 1996

Science Writing Award for Professionals, Acoustical Society of America, 1996

Invited speaker, UCLA Experience, H.S. Students Recruiting Day, 1997

Invited Chair, Symposium honoring Peter Marler, UC Davis, 1997

Keynote Speaker, at 22nd Annual West Coast Biological Sciences Undergraduate Research Conference, Loyola Marymount University, 1997

Fellow, Animal Behavioral Society, 1997

Fellow, American Association for the Advancement of Science, 1997

Professor *Ad Honorem*, Faculty of Medicine, Univ. of the Republic, Montevideo, Uruguay, 1998

Honorary Member, Cuban Zoological Society, 2004

Distinguished Visiting Professor, University of Miami, Coral Gables, 2005

C. Ladd Prosser Lecture, University of Illinois, Urbana, IL, 2005

AFFILIATIONS:

International Society for Neuroethology, Treasurer

Society for Neuroscience

Acoustical Society of America, Fellow

Animal Behavioral Society, Fellow

American Society of Zoologists

American Association for the Advancement of Science, Fellow

Association for Research in Otolaryngology

Sigma Xi

PROFESSIONAL ACTIVITIES:

Vice-Treasurer, International Society for Neuroethology, 1989-present.

Psychol. and Physiol. Acoustics Technical Committee of the Acoustical Society of America, 1991-1995.

Long-range Planning Committee, Association for Research in Otolaryngology, 1994-1997.

Elected Councilor, International Society for Neuroethology, 1995-1998.

Board of Directors, Organization for Tropical Studies, 1994-present.

Hearing Research Study Section, Division of Research Grants, NIDCD, NIH, 1995-1999.

Committee on Animal Bioacoustics, Acoustical Society of America, 1995-present

Site Visit and Evaluation Committee, Field Research Station, Rockefeller University, 1996

External Tenure Committee, University of Malaya, 1997

External PhD Thesis Committee (2), University of the Republic, Montevideo, Uruguay, March, 1998

Ad Hoc Tenure Review Committee, Harvard University, April, 1998

External Review Committee, Cornell University Laboratory of Ornithology, November, 1999

External Evaluator for Neuroscience Program, University of Missouri, November, 1999

Invited Speaker, Convocation of Fellows of the Acoustical Society of America, Newport Beach, CA, Dec., 2000

Invited Instructor, First Int'l. Course on Experimental Approaches in Neuroethology, Santiago, Chile, 1/02

National Academy of Science Workshop on Through Structure Imaging, Wash. DC, 2/02

External PhD Thesis Committee, University of the Republic, Montevideo, Uruguay, 10/02

Keynote Speaker, VIth Chilean Behavior Meetings, Santiago, Chile, 10/02

Invited "Facilitator", Grant Retreat and Mini-symposium, U. Texas, Austin, TX, 11/02

PROFESSIONAL ACTIVITIES (CONT'D):

Organized Symposium: "Amphibian Bioacoustics Honoring Robert Capranica," 144th Mtg. of Acoust. Soc. Am., Cancún, Mexico, 12/02
Invited Instructor, VIIIth School of Neuroscience, Clemente Estable Institute, Montevideo, Uruguay, 3/03
Scholar-in-Residence and Keynote Speaker, Auditory Neuroscience Training Program Retreat, U. Washington, Seattle, WA, 5/03
Ad-Hoc Member, Bioengineering Study Section, IFCN-6, NIDCD, NIH, 7/03
Fellows Lecture, Animal Behavior Society Meeting, Boise, ID, 7/03
Keynote Lecture, 1st International Conference on Acoustic Communication by Animals, College Park, MD, 7/03
Plenary Lecture, XXVIIIth International Ethological Conference, Florianópolis, Brazil, 8/03
Edmund A. Arbas Memorial Lecture, University of Arizona, Tucson, AZ, 10/03
Invited Instructor, VIth Argentine Workshop in Neuroscience, Córdoba, Argentina, 4/04
Invited Instructor, IXth Course in the Biological Bases of Behavior, Oaxaca, Mexico, 6/04
Invited Instructor, Sensory Ecology, An International Course for Postgraduates, Lund, Sweden, 10/04
Faculty Lecturer, UCLA Alumni Association Cruise, Patagonia, Chile/Argentina, 10/04
Plenary Lecture, VIth Zoology Symposium, Cuban Society of Zoologists, Topes de Collantes, Cuba, 11/04
Distinguished Visiting Professor, Graduate mini-course in Neuroethology, U. Miami, Coral Gables, FL, 3/05
Treasurer, International Society for Neuroethology, 2005-2008

UNIVERSITY SERVICE:

Chancellor's Advisory Committee for Instructional Improvement, 1984-present
Magoun Lectureship Committee, Brain Research Institute, 1991-present; Chair, 1994.
Academic Senate Committee on Teaching, 1991-93; 2001-03; Chair, 1994-95, 2000-01.
Brain Research Institute Ethics Committee, 1991-93.
Chair, Biology Departmental Seminar Committee, 1991-92.
Alumni Assoc. Outstanding Graduate Student Nominating Committee, 1992-93, 1996-1998.
Chair, Dean's Review Committee, 1995.
Dept. of Physiological Science Personnel Committee, 1995,96,97,98,01,02, Chair W, Sp. 03, 04
Dept. of Physiological Science, Chair Graduate Affairs Committee, 1996-97; member 1996-00.
Dean's Physiology Task Force Committee, 1996
UCLA Bioengineering Committee, 1996-present
Co-Chair, Graduate Education Committee, 1996
Chair, Academic Coordinator Search Committee (Physiology & Neuroscience), 1996
Chair, Dean's Lecture/Lab Physiology Task Force Committee, 1996
Long-range Planning Committee of the Advisory & Scholarship Program, UCLA Alum. Assoc. 1996-1998
Neuroscience IDP Curriculum Committee, 1996-01
Neuroscience IDP Qualifying Exam Committee, member, 1997; Chair, 1998
Chair, Faculty Retention Committee, Dept. of Biology, 1997
University Regents Professor & Lecturer Selection Committee, 1998
Gold Shield Faculty Prize Selection Committee, Chair 1998; 2000, 2002
Special Faculty Panel to Review Boyer Commission Report on Undergraduate Education, 1998
Ad Hoc Tenure Review committee, Feb. 1999; Feb. 2000
Physiological Science representative to the Academic Senate, 1998-99; 1999-00
Executive Vice-Chancellor's Ad Hoc review committee, January-March, 1999
Acting Vice-Chair, Dept. of Physiological Science, W, Sp., 2003

GRADUATE STUDENT COMMITTEES:

Stacy Sjoberg, (PhD), Biology
Larry Fausett, (PhD), Biology

Jim Handsfield, (PhD), Biology
Alejandro Klempau, (PhD), Biology
Abigail Hafer, Biology (PhD, Oxford)
Susan Presley, (MS), Biology

William Kupfer, (MS), Biology
Michael Swan, (MS), Biology
Randy Zelik, (PhD), 1984, Biology (Chair)
Roald Roverud, (PhD), 1984, Biology (Co-Chair)
Nancy Richardson, (PhD), Biology
Clifford Hui, (PhD), Biology
Diane Riska, (PhD), Biology
Bruce Nudell, (PhD), Biology
Paul Neiswander, (PhD), Mechanics & Structures
Steve Greenberg, (PhD), Linguistics
John Chow, (PhD), Mech. Engineering
Matthew Grober, (PhD), Biology
Mark Hauser, (PhD), Anthropology
Jeffrey Brush, (MS), 1986, Biology (Chair)
Eric Chargo, (PhD), Biology
Hector Betancourt, (PhD), Psychology
Stan Warford, (PhD), Mech. Engineering
Celia Simon-Roth, (PhD), Spanish & Portuguese
Santos Torres-Rosado, (PhD), Spanish & Portuguese
Clara Isabel Cid, (PhD), Spanish & Portuguese
Richard Dunia, (PhD), 1988, Neuroscience (Chair)
Pamela Lopez, (PhD), 1990, Biology (Chair)
Guang Yu Wang, (PhD), Biology
Michael Cornish, (PhD), Biology
Stuart Sumida, (PhD), Biology
Vicente Garcia-Marquez, (PhD), Spanish &
Portuguese
Robert Rivera, (PhD) Biology
Gwen Bachman, (PhD), Biology
Daniel Hurley, (MS), 1981, Biology (Chair)
Sun Lee, (PhD), Biology
Sara Dart, (PhD), Linguistics
Vlad Brezina, (PhD), Biology
Anson Gong, (PhD), Biology
Glen Cornett, (PhD), Neuroscience
Whitman Miller, (PhD), ES&E
Luis Crispino, (MS, Univ. of the Republic,
Montevideo, Uruguay), Physiology
Ted Cranford, (PhD, UC Santa Cruz), Biology
Michael Weinstein, (PhD), ES&E
Mandy Dyson, (PhD, Univ. of the Witwatersrand,
Johannesburg, South Africa), Zoology
Phil Bishop, (PhD, Univ. of the Witwatersrand,
Johannesburg, South Africa), Zoology
Glenn Grieve, (MS), 1989, Biology (Chair)
Cary Chronis, (MS), 1989, Biology (Co-Chair)
Anne Blood, (PhD), Neuroscience
Tim Watkins, (PhD, UC Irvine), Dept. of
Ecol. and Evol. Biology
**Thuvan Nguyen, (MS), 1995, Physiological Science
(Co-Chair)**
Jamie Uyehara, (PhD), 1996, Biology (Chair)

**Thomas Ludwig (MS), Physiological
Science (Chair)**
**Michael Smotherman (PhD), Physiological
Science (Chair)**
**Wei Huang (MS), Physiological Science
(Chair)**
Jim McLister, (PhD, UC Irvine), Dept. of
Ecol. and Evol. Biology
Melissa Gerald, (PhD), Anthropology
John Hernandez (PhD), Head and Neck
Surgery
Gabrielle Cramer (MS), Physiological Science
Jonathan Crisp (MS), Physiological Science
Leslie Minter, (MS, Univ. of the Witwatersrand,
Johannesburg, South Africa), Zoology
A.P. Sampath (PhD), Physiol. Science
Natasha Prtina (MS), MCD Biology
Brian Strobe (PhD) Electrical Engineering
John-Clay Morris (MS), Physiological Science
Juman Raji-Kubba (PhD), Physiol. Science
Jeffrey Thomas (PhD candidate), OBEE Biology
Sherry-Ann Jenkins (PhD) Physiological Science
Doug Schultz (PhD) Physiological
Science
**Patricia Quiñones (PhD candidate)
Physiological Science (Chair)**
Chris Lin (MS) Physiological Science, (Chair)
Pantelia Vassilakis (PhD) Music
Jennifer Foster (MS) Physiological Science
John Kil (PhD) Physiological Science
Vanessa Richlin (MS) Physiological
Science
Megha Patel (PhD) Physiological Science
Alex Lai (PhD) Physiological Science
Debra Pires (PhD candidate) OBEE Biology
Daniel Martin (MS) Physiological Science
Tracy Tran (PhD) Physiological Science
**Michael Gomez (MS) Physiological Science
(Chair)**
Leola Hau (MS) Physiological Science (Chair)
Narina Hartoonian (MS) Physiological Science
Youssef Ezzadine (PhD) Physiological
Science
Yoosook Lee (PhD candidate) OBEE Biology
Carol Campbell (PhD candidate) Geography
**Christian Crook (MS candidate) Biomedical
Engineering (Chair)**
**Calvin Ho (MS candidate) Biomedical
Engineering (Chair)**

POST-DOCTORAL FELLOWS:

Cynthia Hillery, PhD, University of Chicago. 1982-1985.
Mario Penna, MD, PhD, University of Chile. 1985-1986.
Barbara Schmitz, PhD, University of Konstanz. 1987-1988.
Imme Stiebler, PhD, University of Konstanz. 1987-1988.
Thomas White, PhD, University of California, Los Angeles. 1989-1991.
Jakob Christensen-Dalsgaard, PhD, University of Odense, Denmark. 1991-1992.
Cristina Bertolotto, MD, University of the Republic, Montevideo, Uruguay. 1990-1992.
Elba Serrano, PhD, University of California, Los Angeles. 1992-1993.
Jim Benedix, PhD, Kansas State University. 1991-1993.
Jianxin Wang, PhD, University of Connecticut. 1993-1995.
Alejandro Purgue, PhD, University of Utah. 1995-1999.
Michael Smotherman, PhD, University of California, Los Angeles. 1998-1999.
Walter Yamada, PhD, University of California, Berkeley. 1997-2000.
Matthew Mason, PhD, Cambridge University, UK. 1999-2001.
Roian Egnor, PhD, California Institute of Technology. 2000-2001.
Pantalis Vassilakis, University of California, Los Angeles. 2002-2003
Urban Willi, University of Zürich. 2004-present

UCLA TEACHING EXPERIENCE:

1981-1984, 1986-89, 1993, 95	Biology 166	Animal Physiology
1979,80,84,85,87,89,90,92 93,95,98,99,00,02	Phy. Sci. M173	Anatomy and Physiology of the Sense Organs
1979, 1992, 1994	Biology 5	Biology of Organisms
1980	Biology 171	Principles of Neurobiology
1981, 83, 88, 91, 94, 97, 01	Biology 125	Tropical Animal Communication
1982	Biology 243	Animal Communication
1979-84, 1986-90, 1994-96, Sp98, F98, W00, Sp03,04	Phy. Sci. M290	Seminar in Comparative Physiology
1990, 1991	Biology M175A	Neuroscience: From Molecules to Mind
1996,97,98,99,00,01,02,03,04 Sp01,02,03	Phy. Sci. 111A	Foundations of Physiological Science
Sp01	Neuroscience M205	Behavioral and Systems Neuroscience
W02,04	BME CM103/203	Human Physiology for Biomedical Engineers
Sp03,04	PS 270A	Modern Concepts in Physiology A: Neuroscience
	PS 177	Neuroethology

INVITED SEMINARS (Since 1997):

- 1997:** U. Pennsylvania (2), Philadelphia, PA; UC Davis; U. Virginia, Charlottesville, VA; U. Stellenbosch, South Africa; U. Capetown, South Africa; Loyola Marymount U., Los Angeles, CA; International Symposium on Hearing, Nottingham, UK; 3^d World Congress of Herpetology, Prague, CR; U. Maryland, College Park, MD; J.B. Johnston Club, New Orleans, LA.
- 1998:** Humboldt State U. (2), Arcata, CA; 3^d Latin American Neuroscience School, Montevideo, Uruguay; Int'l Symposium in Sensory Physiology, Colonia, Uruguay; UC Davis; U. Oregon, Eugene, OR; UC Davis; Arizona State U., Phoenix, AZ; U. Connecticut, Storrs, CT; U. Tulsa, Tulsa, OK; Pepperdine U., Malibu, CA.

- 1999:** Harvard U. (Massachusetts Eye & Ear Infirmary), Boston, MA; ASA Meeting, Berlin, Germany (3); U. Lisbon, Lisbon, Portugal; Austrian Acad. Sciences, Vienna; U. Vienna; T. U. Vienna; Auditory Mechanics Meeting, Sendai, Japan; Int'l Ethology Conference, Bangalore, India; 1st Gordon Conference in Neuroethology, Oxford, UK; U. Missouri, Columbia, MO.
- 2000:** UC Irvine; ARO annual meeting, St. Petersburg Beach, FL; UC Davis, Communication Workshop; Cal State U. Fullerton, Fullerton, CA; M.I.T., Cambridge, MA; Institute of Neuroscience, Chinese Academy of Sciences, Shanghai, PRC; Center for Brain Science Research, Fudan University, Shanghai, PRC; Vanderbilt U., Nashville, TN; CSU Northridge, Northridge, CA; J.B. Johnston Club, New Orleans, LA; ASA Meeting, Newport Beach, CA.
- 2001:** Society for Intergative and Comparative Biology (SICB) Symposium on Vibrations, Chicago, IL; NRP Associates Meeting, Neuroscience Research Institute, San Diego, CA; Orange Co. Chapter of the Acoustical Society of America, Irvine, CA; Animal Behavior Society (ABS) Meeting, Corvallis, OR; International Society for Neuroethology (ISN) Meeting, Bonn, Germany; International Ethological Congress (IEC), Tübingen, Germany; International Congress of Acoustics (ICA) Meeting, Rome, Italy; NC State U., Raleigh, NC; U. Kansas, Lawrence, KS; J.B. Johnston Club, San Diego, CA; 4th World Congress of Herpetology, Bentota, Sri Lanka.
- 2002:** U. Chile, Program in Physiology and Biophysics, Santiago, Chile, 1/16; U. Chile, First International Course in Neuroethology, Santiago, Chile, 1/17; UCLA, Dept. of Physiol. Sci., Chalk Talk, 1/24; Southern California Animal Behavior Conference, UCLA, 2/9; Central Institute for the Deaf, St. Louis, MO, 2/14; La Sierra University, Riverside, CA, 2/19; Northwestern University, Evanston, IL, 3/26; U. Oldenburg, Oldenburg, Germany, 6/26; U. Zürich, Institute of Zoology, 6/27; Animal Behavior Society (ABS) Meeting, Bloomington, IN, 7/14; Cornell U., Ithaca, NY, 10/3; Clemente Estable Institute, Montevideo, Uruguay, 10/21; Biannual Chilean Behavior Meeting, Santiago, Chile, 10/26; U. Texas, Zoology Dept., Austin, TX (2 lectures), 11/7; Acoustical Society of America Meeting, Cancun, Cancún, Mexico, 12/9.
- 2003:** UMR (Unité Mixte de Recherche), Kourou, French Guiana, 1/7; Caltech, Pasadena, CA, 2/3; UC Riverside, Biology Department, 3/7; Animal Behaviorists of Southern California Conference, UC Irvine, 3/8; Clemente Estable Institute, Montevideo, Uruguay, VIIIth School of Neuroscience (2 lectures), 3/25, 3/26; Boston University, 5/9; U. Washington, Seattle, WA (2 lectures) 5/22, 5/23; Ludwig Maximilian University, München, Germany, 6/25; U. Oldenburg, Oldenburg, Germany, 6/26; Animal Behavior Society (ABS) Meeting, Boise, ID, 7/21; 1st International Conference on Acoustic Communication by Animals, College Park, MD, 7/29; XXVIIIth International Ethological Conference, Florianópolis, Brazil, 8/22; U. Miami, Coral Gables, FL, 10/20; U. South Florida, St. Petersburg, FL, 10/21; U. Arizona, Tucson, AZ, 10/30; UCLA Westwood Women's Club, 11/19; U. Vienna, Vienna, Austria, 12/17.
- 2004:** UC Santa Barbara, Santa Barbara, CA, 1/12; UCLA Symposium on Neural Control of Behavior, 2/7; Loyola University, Chicago, IL, 2/17; ARO annual meeting, Daytona Beach, FL, 2/24; Southern California Animal Behavior Conference, UCLA, 2/28; VIth Argentine Workshop in Neuroscience, Córdoba, Argentina, 4/04; ICA, Kyoto, Japan, 4/04; U. Vienna, Vienna, Austria, 5/04; ASA Symposium on Infrasonics, NYC, NY, 5/04; IXth Course in the Biological Bases of Behavior (2 lectures), Oaxaca, Mexico, 6/04; ABS Annual Meeting (2 lectures), Oaxaca, Mexico, 6/04; Seoul National University, Seoul, S. Korea (2 lectures), 9/04; University of Lund, Sweden, 10/04; Sensory Ecology Course, University of Lund, Sweden, 10/04; J.B. Johnston Club, San Diego, CA, 10/04; Plenary Lecture, Cuban Society of Zoology, Topes de Collantes, Cuba, 11/04; Bioacoustics Symposium Lecture, Cuban Society of Zoology, Topes de Collantes, Cuba, 11/04.
- 2005:** U. Miami, Coral Gables, FL, 3/14;

PUBLICATIONS:

1. Narins, P.M. (1969). Generation of "pseudo-random" numbers. Proc. First Ann. Meeting Chilean Comp. Soc., Sep. de Scien. 137: 32-33.
2. Feng, A.S., Narins, P.M. and Capranica, R.R. (1975). Three populations of primary auditory fibers in the bullfrog (*Rana catesbeiana*): their peripheral origins and frequency sensitivities. J. Comp. Physiol. 100: 221-229.
3. Narins, P.M. (1976). Auditory processing of biologically meaningful sounds in the treefrog, *Eleutherodactylus coqui*. Ph.D. Thesis, Cornell University, Ithaca, NY. 340 pp.
4. Narins, P.M. and Capranica, R.R. (1976). Sexual differences in the auditory system of the treefrog, *Eleutherodactylus coqui*. Science 192: 378-380.
5. Narins, P.M. and Capranica, R.R. (1977). An automated technique for analysis of temporal features in animal vocalizations. Animal Behaviour 25: 615-621.
6. Narins, P.M. and Capranica, R.R. (1978). Communicative significance of the two-note call of the treefrog *Eleutherodactylus coqui*. J. Comp. Physiol. 127: 1-9.
7. Narins, P.M., Evans, E.F., Pick, G.F. and Wilson, J.P. (1979). A comb-filtered noise generator for use in auditory neurophysiological and psychophysical experiments. IEEE Trans. Biomed. Eng. BME-26: 43-47.
8. Narins, P.M. (1979). Review of "The Development of Behavior: Comparative and Evolutionary Aspects," Burghardt, G.M. and Bekoff, M. eds. Series in Ethology. Garland. Amer. Scien. 67: 486.
9. Narins, P.M. and Capranica, R.R. (1980). Neural adaptations for processing the two-note call of the Puerto Rican treefrog, *Eleutherodactylus coqui*. Brain Behav. Evol. 17: 48-66.
10. Pick, G.F. and Narins, P.M. (1980). Quantitative investigation of the "paired-click" technique: some limitations and insights. Hearing Res. 3: 181-187.
11. Narins, P.M. and Evans, E.F. (1980). Spectral resolution of comb-filtered noise by cochlear fibers in the cat: Preliminary results of comparisons with their rate-level functions. In: Psychological, Physiological and Behavioural Studies in Hearing (G. van den Brink and F.A. Bilsen, eds.), Delft University Press, Delft, 320-325.
12. Narins, P.M. (1980). Dependence of discharge rate modulation on CFN peak-to-valley ratio: predictions from simulation. In: Psychological, Physiological and Behavioural Studies in Hearing (G. van den Brink and F.A. Bilsen, eds.), Delft University Press, Delft, 328.
13. Narins, P.M. (1981). Review of "Biology of Communication". Lewis, D.D. and Gower, D.M. John Wiley and Sons. Amer. Scien. 69: 96.
14. Narins, P.M. and Hurley, D.D. (1982). The relationship between call intensity and function in the Puerto Rican Coqui (Anura: Leptodactylidae). Herpetologica 38: 287-295.
15. Zelick, R.D. and Narins, P.M. (1982). Analysis of acoustically evoked call suppression behaviour in a neotropical treefrog. Anim. Behav. 30: 728-733.

16. Narins, P.M. (1982). Effects of masking noise on evoked calling in the Puerto Rican Coqui (Anura: Leptodactylidae). *J. Comp. Physiol.* 147: 438-446.
17. Narins, P.M. (1982). Behavioral refractory period in neotropical treefrogs. *J. Comp. Physiol.* 148: 337-344.
18. Narins, P.M. (1982). Acoustic communication in anuran amphibians. In: *Bioengineering Seminars*, (C. Susskind, ed.) College of Engineering, U.C. Berkeley. 82-1: 9-13.
19. Narins, P.M. (1983). Responses of torus semicircularis cells of the treefrog to FM sinusoids: Implications for processing natural sounds. In: *Advances in Vertebrate Neuroethology* (J.-P. Ewert, R.R. Capranica, and D.J. Ingle, eds.) Plenum Press, London, New York. 889-894.
20. Narins, P.M. (1983). Divergence of acoustic communication systems of two sibling species of eleutherodactylid frogs. *Copeia* 4: 1089-1090.
21. Narins, P.M. (1983). Synchronous vocal response mediated by the amphibian papilla in a neotropical treefrog: Behavioral evidence. *J. Exp. Biol.* 105: 95-105.
22. Zelick, R.D. and Narins, P.M. (1983). Intensity discrimination and the precision of call timing in two species of neotropical treefrogs. *J. Comp. Physiol.* 153: 403-412.
23. Narins, P.M. and Hillery, C.M. (1983). Frequency coding in the inner ear of anuran amphibians. In: *Hearing- Physiological Bases and Psychophysics, 1983* (R. Klinke and R. Hartmann, eds.) Springer-Verlag, Heidelberg. 70-76.
24. Narins, P.M. (1983). The effect of broadband noise on rate-level functions in frogs. In: *Hearing- Physiological Bases and Psychophysics, 1983* (R. Klinke and R. Hartmann, eds.) Springer-Verlag, Heidelberg. 126.
25. Narins, P.M. and Lewis, E.R. (1984). The vertebrate ear as an exquisite seismic sensor. *J. Acoust. Soc. Am.* 76: 1384-1387.
26. Hillery, C.M. and Narins, P.M. (1984). Neurophysiological evidence for a traveling wave in the amphibian inner ear. *Science* 225: 1037-1039.
27. Lewis, E.R. and Narins, P.M. (1985). Do frogs communicate with seismic signals? *Science* 227:187-189.
28. Zelick, R.D. and Narins, P.M. (1985). Characterization of the advertisement call oscillator in the frog *Eleutherodactylus coqui*. *J. Comp. Physiol.* 156: 223-229.
29. Zelick, R.D. and Narins, P.M. (1985). Temporary threshold shift, adaptation, and recovery characteristics in frog auditory nerve fibers. *Hearing Research* 17: 161-176.
30. Narins, P.M. and Smith, S.L. (1986). Clinal variation in anuran advertisement calls: basis for acoustic isolation? *Behav. Ecol. Sociobiol.* 19: 135-141.
31. Narins, P.M. and Gleich, O. (1986). Phase behavior of low-frequency cochlear ganglion cells in the starling. In: *Auditory Frequency Resolution*, (B.C.J. Moore and R.D. Patterson, eds.) Plenum Press, London, New York. 209-216.
32. Hillery, C.M. and Narins, P.M. (1987). Frequency and time domain comparison of low-frequency auditory fiber responses in two anuran amphibians. *Hearing Res.* 25: 233-248.

33. Narins, P.M. (1987). Coding of signals in noise by amphibian auditory nerve fibers. *Hearing Res.* 26: 145-154.
34. Gleich, O. and Narins, P.M. (1988). The phase response of primary auditory afferents in a songbird (*Sturnus vulgaris* L.). *Hearing Res.* 32: 81-91.
35. Narins, P.M., Ehret, G. and Tautz, J. (1988). Accessory pathway for sound transfer in a neotropical frog. *PNAS* 85: 1508-1512.
36. Grinnell, A.D., Narins, P.M., Awbrey, F.T., Hamner, W.M. and Hamner, P.P. (1988). Eye/photophore coordination and light following in the Antarctic krill, *Euphausia superba*. *J. Exp. Biol.* 134: 61-77.
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